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POLIOMYELITIS SURVEILLANCE
REPORT NO. 30 JUNE 17, 1955

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

COMMUNICABLE DISEASE CENTER

EPIDEMIOLOGY BRANCH

POLIOMYELITIS SURVEILLANCE UNIT

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WEEKLY SUMMARY

SPECIAL NOTE

The information provided in this report represents the latest data reported to the Poliomyelitis Surveillance Unit from State Health departments, Epidemic Intelligence Service Officers, participating laboratories, and other pertinent sources. Much of the material is preliminary in nature and is subject to confirmation and change. It is distributed for the benefit of all participants with the understanding that it will not be released to the press or to unauthorized persons. Any release of this information will be strictly limited to the Office of the Surgeon General, United States Public Health Service, Washington, D. C. In such releases cases will be identified by State only; initials and residence will not be made public. State Health Officers, of course, are free to reveal any information they may wish concerning data from their State.

"The epidemiological data so far obtained clearly define the Cutter incident as an outbreak with characteristics of a common source epidemic."*

A total of 73 cases of poliomyelitis in Cutter vaccinated individuals have been accepted through June 15. Of these 73, 69 were accepted prior to June 1, the other four representing a small backlog of cases either reported later or held pending definitive diagnosis.

Reporting of the Cutter incident is now nearing completion and with it the first phase of PSU activities is drawing to a close.

It is planned that this phase of PSU activities will be summarized in a special report which will include all vaccinated cases with onsets prior to June 1, and all contact cases with onsets prior to June 15. A 60-day lag period will be allowed for definitive classification of cases and for completion of laboratory work before the final data are assembled.

*Public Health Service Technical Report on Salk Poliomyelitis vaccine, June, 1955, page 2.

From data now available, it is possible to critically re-evaluate certain theoretical considerations. It was originally suggested that in inoculation polio the virus was introduced into peripheral nerves, and traveled via these nerves to the Central Nervous System without causing systemic infection. This hypothesis led to the prediction that cases of inoculation polio, as opposed to naturally occurring polio would constitute closed infections with no transmission of the disease to others. However, the isolation of Type 1 Virus from the stools of 31 of 73 Cutter associated cases proved the potential infectivity of such cases, refuting the original hypothesis.

The development of minor illness among a number of Cutter vaccinated children one to two weeks after inoculation suggested the possibility that these individuals were also experiencing poliomyelitis infections, but of a subclinical type. Reports by Dr. Shaughnessy (PSU Report No. 14) and Dr. Larson (PSU Reports No. 15 and 22), of virus isolation from stools collected from these vaccinated children several weeks after inoculation, demonstrated the potential infectiousness of these children.

Dr. Joseph L. Melnick, Yale School of Medicine has recently reported experimental data bearing on this point*.

"Through Dr. Langmuir's Poliomyelitis Surveillance Unit we were able to obtain 61 sera from children in the Atlanta Area.

27 of these had received Cutter vaccine (Lot E 6044
cr E 5973

29 had received Lilly vaccine

5 were control, non-vaccinated, children

All children in the group live in the same part of the city.

None of the Lilly-vaccinated children nor the 5 controls had CF titers indicative of current or recent infection. In contrast, 10 of the 27 Cutter children had positive, high level, CF responses. It is noteworthy that one of these children is a paralytic case and that two of them are in households in which paralytic cases occurred a few weeks after the vaccination!

The foregoing considerations suggest a new epidemiologic method for the rapid detection of unsafe lots of vaccine. The occurrence of minor illnesses with increased frequency following vaccination would constitute an indication for immediate laboratory examination of specimens from such individuals. The isolation of poliomyelitis virus from the stools of these vaccinated individuals would then be tentative evidence of an unsafe lot of vaccine. Such evidence might well be collected before any vaccine associated poliomyelitis cases were reported.

With the close of the first phase of PSU activities the continuing functions of the Poliomyelitis Surveillance Unit may be briefly considered. These are best summarized as follows:

*Quoted from a letter dated June 8, 1955, from Dr. Melnick to the National Institute of Health.

"The Public Health Service has established a Nation-wide network for supplying precise and current information on poliomyelitis cases, and for securing from collaborative university laboratories effective laboratory support for epidemiological studies. The purpose is to study vaccine performance."*

Poliomyelitis in Vaccinated Individuals

This week, the cases in vaccinated individuals are presented in three categories (Tables 1, 2, and 3). There are 131 PSU accepted cases through 6-15-55 vaccinated on or before May 7 (the data after which the releasing of further lots of vaccine was delayed for further safety testing) with onset of illness 30 days or less after inoculation. The accepted cases vaccinated on or before May 7 with onsets more than 30 days after inoculation total 18 to date. The cases inoculated after May 7 total nine to date, none of which had intervals between inoculation and onset greater than 30 days. (For details of the new cases, see the tabular Summary.)

In the 131 cases in the first category, seven deaths have been reported to date (Ida-1, Ida-5, Ida-14, La-3, TH-1, Pa-4, and Tex-17), five of which were associated with Cutter vaccine and one each with Lilly and Wyeth. No deaths have been reported in the other categories of vaccinated cases.

In table 6, "expected" and "reported" cases are presented. For the period April 16 to June 14, ten cases were expected and 38 reported among Cutter vaccinated children, 57 expected and 48 reported among Lilly vaccinated children, 6 expected and 9 reported among Parke-Davis vaccinated children, 4 expected and 6 reported among Pitman-Moore vaccinated children, and 2 expected and 13 reported among Wyeth vaccinated children.

Table 7 presents the vaccinated cases according to week of onset, manufacturer, and paralytic status. Table 8 presents the virus isolations from the vaccinated cases and their contacts by manufacturer and status. At least one virus isolation has been made in connection with 33 of the Cutter vaccinated cases, two of the Lilly, three of the Wyeth, and none of the Parke-Davis or Pitman-Moore associated cases. All viruses isolated in connection with the Cutter vaccinated cases were Type 1 except for one each of Types " (Cal-28) and 3 (Cal-9); one of the Lilly associated isolations was type two and the other Type 3, and the Wyeth associated isolations were all Type 1.

Poliomyelitis in Parents and Siblings of Vaccinated Individuals

Cases accepted through 6-15-55 total 103 (Table 4), including 22 cases accepted since 6-8-55 (see Tabular Summary for details). The new cases include two which had contact with children who received two inoculations, with vaccine produced by two different manufacturers, prior to onset of illness; in both, the first inoculation with Cutter vaccine and the second with Lilly and Lilly or Parke-Davis vaccine, respectively.

*Public Health Service Technical Report on Salk Poliomyelitis vaccine, June, 1955, page 93.

It may be noted that two of the new family contact cases reported this week, (Iowa-X1 and X2) are associated with a vaccinated child (Iowa-2), their brother, who had an illness diagnosed as non-paralytic polio (CSF 116 cells). This is the first unvaccinated case to occur in the family of a vaccinated poliomyelitis patient.

In the 103 family contact cases, four deaths have thus far been reported to the PSU (Ga-X1, Ida-X20, Mont-X1, and Ohio-X4), all of which were associated with Cutter vaccine.

Table 7 and Table 8, listings of cases by week of onset and of virus isolation, include the family contact cases. At least one virus Isolation has been reported in connection with 18 of the Cutter associated cases, two of the Lilly, seven of the Wyeth, and none of the Parke-Davis or Pitman-Moore associated cases. Besides isolations from these cases and their vaccinated contacts, a number of isolations have been made from unvaccinated contacts as well. All viruses isolated were Type 1.

Poliomyelitis in Community Contacts of Vaccinated Individuals

Cases accepted through 6-15-55 total 27 (Table 5), including six cases accepted since 6-8-55 (see Tabular Summary for details). It may be noted that only one of the vaccinated children (Ida-12) associated with a community contact case (Ida-C2) reported thus far had an illness diagnosed as poliomyelitis (non-paralytic).

In the 27 family contact cases, two deaths have thus far been reported (Ala-C1 and Cal-C1), both of which were associated with Cutter vaccine.

Presentation of community contact cases by week of onset is made in Table 7. Table 8 presents the virus isolations. At least one virus isolation has been made in connection with seven of the Cutter associated cases, one each of the Parke-Davis and Wyeth, and none of the Lilly or Pitman-Moore associated cases.

In connection with several of these same cases, virus isolations have been made from unvaccinated contacts as well as from the case, the vaccinated contact, or both. All virus isolations were type 1.

Current Morbidity Trends

Poliomyelitis incidence by week for the present calendar year, with similar data for the three preceding years, is presented in the figure, drawn from data provided by the National Office of Vital Statistics.

During the period April 10 through June 11, incidence has run closely parallel to that in 1953 and 1954. Incidence during the week ending June 11 rose slightly above the previous week, as would be expected at this time of year, and is slightly below that for the same weeks in 1954 and 1953.

The trend of poliomyelitis by States for the six-week period, May 7 through June 11, is presented in the accompanying table with comparable data for the three preceding years.

(This Summary Report has been prepared by Dr. Neal Nathanson, Dr. Jack Hall, and Dr. Alexander D. Langmuir. Special assistance in the calculations in Table 6 and on the figure and table describing current morbidity trends was provided by Dr. R. E. Serfling, Mrs. Ida Sherman, Mr. Jack Karush.)

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Table 1

Vaccinated Cases Inoculated April 13 to May 7, 1955, by State and Manufacturer
 All Cases with Onset 30 Days or less After Inoculation
 (PSU Accepted Cases Through June 15, 1955)

State	C		L		PD		PM		W		Total
	P*	NP	P	NP	P	NP	P	NP	P	NP	
Arkansas				2							2
Arizona		1									1
California	28	7									35
Colorado	1		1								2
Connecticut		1									1
Delaware									2		2
Georgia	1		2		1						4
Hawaii	1										1
Idaho	16	1									17
Illinois	1				2	1					4
Indiana			1								1
Iowa					1						1
Kansas							1				1
Louisiana	1		3	2							6
Maryland									2		2
Mississippi			2								2
Missouri	1						1				2
Nebraska							2	1			3
Nevada	3	1									4
New York	1										1
Ohio	1								1	1	3
Oregon	3										3
Pennsylvania									4	2	6
South Carolina			1								1
Tennessee				1							1
Texas	1		2	11							14
Virginia				5							5
Washington	1										1
West Virginia			4								4
Wyoming	1										1
Sub-Totals	61	11	16	21	3	2	3	2	9	3	
Totals		72		37		5		5		12	131

* P - Paralytic; NP - Non-paralytic
 ** C - Cutter; L - Lilly; PD - Parke-Davis; PM - Pitman-Moore
 W - Wyeth

Table 2

Vaccinated Cases Inoculated April 13 to May 7, 1955, by State and Manufacturer
 All Cases with Onset 31 Days or More After Inoculation
 (PSU Accepted Cases Through June 15, 1955)

State	C		L		PD		PM		W		Total
	P*	NP	P	NP	P	NP	P	NP	P	NP	
Alabama				1							1
Idaho	1										1
Illinois					1	1					2
Iowa						1					1
Maryland									1		1
Michigan						1					1
Mississippi				1							1
Missouri							1				1
Tennessee				2							2
Texas			1	5							6
Virginia				1							1
Sub-Totals	1	0	1	10	1	3	1	0	1	0	
Totals	1		11		4		1		1		18

Table 3

Vaccinated Cases Inoculated After May 7, 1955, by State and Manufacturer
 All Cases with Onset 30 Days or Less after Inoculation
 (PSU Accepted Cases Through June 15, 1955)

State	C		L		PD		PM		W		Total
	P*	NP	P	NP	P	NP	P	NP	P	NP	
New York					2	3					5
Ohio				1							1
Oregon					2						2
Washington						1					1
Sub-Totals	0	0	0	1	4	4	0	0	0	0	
Totals	0		1		8		0		0		9

* P - Paralytic; NP - Non-paralytic

** C - Cutter; L - Lilly;

PD - Parke-Davis

PM - Pitman-Moore

W - Wyeth

Table 4

Poliomyelitis in parents and Siblings of Vaccinated Individuals
(PSU Accepted Cases Through June 15, 1955)

State	Manufacturer**												Relationship to Vaccinated Individual			Health of Vaccinated Individual		
	C		L		W		PD		PM		***		Par-ent	Sib-ling	No Data	Ill	Not Ill	No Data
	P*	NP*	P	NP	P	NP	P	NP	P	NP	P	NP						
Alabama			4	2										6		1	5	
Arkansas				1										1			1	
Arizona		2															1	1
California	8	1									2		5	5	1	2	2	7
Colorado	2		1											1			3	
Dist of Col.						1								1		1		
Georgia	3		1										3	1		2	2	
Hawaii	1													1		1		
Idaho	18	6											3	21		3	5	16
Illinois								5					1	4			4	1
Iowa									2					2		2		
Maryland	1				5	2							1	6	1	3	4	1
Mississippi			3											3		2	1	
Montana	1												1			1		
Nevada	3	1											1	3		1	3	
New Mexico	2	1												3		1	1	1
New York							2	1						3		1	2	1
Ohio	1		2	1	2	1							3	4		2	5	
Oregon	2	1											1	2		2	1	
Pennsylvania					1								1					1
Tennessee	1												1			1		
Texas	1		5										3	3			6	
Virginia				1										1			1	
Washington	1	1											2			1	1	
Sub-Totals	45	13	16	5	9	3	7	3	0	0	2	0	30	71	2	25	49	29
Totals		58		21		12		10		0		2		103			103	

*P-Paralytic; NP-Non-paralytic; **C-Cutter; L-Lilly; W-Wyeth; PD-Parke-Davis; PM-Pitman-Moore
 ***PSU Cases No. Cal X9 and Cal-X10 had contact with individual(s) who received two inoculations, with vaccine produced by two different manufacturers, prior to illness of case.

Table 5

Poliomyelitis in Community Contacts of Vaccinated Individuals
(PSU Accepted Cases Through June 15, 1955)

State	Manufacturer**										Age of Case (Unvaccinated)			Health of Contact (Vaccinated)		
	C		L		W		PD		PM		Under 18	18 and Over	No Data	Ill	Not Ill	No Data
	P*	NP*	P	NP	P	NP	P	NP	P	NP						
Alabama	1		1								1	1		1	1	
California	2										2					2
Florida			1								1			1		
Georgia			1								1				1	
Idaho	2	1									3			2		1
Illinois								1			1					1
Maryland	4	1			1						4	2			5	1
Minnesota	1										1			1		
Mississippi			1								1			1		
Oregon	2										2			2		
Pennsylvania					2	3					5			3	2	
Virginia	1										1					1
Washington	1										1				1	
Sub-Totals	14	2	4	0	3	3	1	0	0	0	24	3	0	11	10	6
Totals	16		4		6		1			0		27			27	

* P - Paralytic; NP - Non-paralytic

** C - Cutter; L - Lilly; W - Wyeth; PD - Parke-Davis; PM - Pitman-Moore

Table 6

Comparison of Expected* and Reported** Cases of
 Poliomyelitis Among Children Inoculated in NFIP
 Clinics from April 15 to May 7, 1955

(PSU Accepted Cases Through June 15, 1955)

Vaccine Mfr.***	Number Vaccinated	Total Cases	Total Apr. 16 May 28	Onset in Week Ending				Total***** Apr. 16 June 11
				June 4	June 11	June 18	June 25	
Cutter	308,748	Exp'd.	7	1	2	3	2	10
		Rep'd.	38	-	-	-	-	38
Lilly****	2,513,962	Exp'd.	30	11	15	20	22	57
		Rep'd.	47	1	-	-	-	48
Parke-**** Davis	834,148	Exp'd.	3	2	1	2	4	6
		Rep'd.	6	2	1	-	-	9
Pitman- Moore	410,648	Exp'd.	2	1	1	3	2	4
		Rep'd.	3	3	-	-	-	6
Wyeth	775,920	Exp'd.	1	0-1	0-1	1	2	2
		Rep'd.	12	1	-	-	-	13

* Expected cases estimated from weekly 5-year medians of cases of poliomyelitis (paralytic and non-paralytic) reported to National Office of Vital Statistics by the States.

** Reported Cases, both paralytic and non-paralytic, and accepted by PSU, for ages, 6,7, or 8 having onsets between April 16 and June 11 and excluding those vaccinated after May 7, 1955.

*** CUTTER vaccine was used in Idaho, Nevada, Arizona, New Mexico, and Southern California. LILLY vaccine was used in Texas, Oklahoma, Louisiana, Arkansas, Mississippi, Alabama, Tennessee, Florida, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Indiana, and parts of Ohio, California and Colorado. PARKE-DAVIS vaccine was used in Michigan, Illinois, Iowa, Wyoming, Utah, and part of Colorado. PITMAN-MOORE vaccine was used in Kentucky, Missouri, Kansas, and Nebraska. WYETH vaccine was used in Pennsylvania, Delaware, Maryland, District of Columbia, and part of Ohio.

**** One Lilly associated and 8 Parke-Davis associated cases were inoculated after May 7 and are omitted.

***** Total reported cases may be broken down to paralytic and non-paralytic cases as follows:

	C	L	PD	PM	W
P	30	16	4	4	10
NP	8	32	5	2	3
Total	38	48	9	6	13

Table 7
 Poliomyelitis Cases Associated with Vaccinated Persons
 by Date of First Symptoms, and Manufacturer
 (PSU Accepted Cases Through June 15, 1955)

Manufacturer		Onset in Week Ending							Sub- Total	Total	
		4-23	4-30	5-7	5-14	5-21	5-28	6-4			6-11
Cases in Vaccinated Individuals											
Cutter	P	9	40	11	1	1				62	73
	NP	2	1	6	1	1				11	
Lilly	P	3	3	4	2	4	1			17	49
	NP	1	3	4	6	7	9	2		32	
Wyeth	P		1	2	2	3	1	1		10	13
	NP				2	1				3	
Parke- Davis	P				1	1	4	2		8	17
	NP						4	3	2	9	
Pitman- Moore	P				1	1		2		4	6
	NP			1	1					2	
Cases in Family Contacts of Vaccinated Individuals											
Cutter	P	1	2	14	17	5	5	1		45	58
	NP		1	2	6	3	1			13	
Lilly	P		2	3	3	2	5	1		16	21
	NP			1	1			1	2	5	
Wyeth	P				1	5	3			9	12
	NP				1		1		1	3	
Parke- Davis	P						4	2	1	7	10
	NP						1	1	1	3	
Pitman- Moore	P									0	0
	NP									0	
Two Mfrs*	P									0	2
	NP						1	1		2	
Cases in Community Contacts of Vaccinated Individuals											
Cutter	P				2	6	5	1		14	16
	NP					1		1		2	
Lilly	P				2			2		4	4
	NP									0	
Wyeth	P				2			1		3	6
	NP			1	1	1				3	
Parke- Davis	P					1				1	1
	NP									0	
Pitman- Moore	P									0	0
	NP									0	

* PSU Cases No. Cal x9 and Cal -X10 had contact with individual(S) who received two inoculations, with vaccine produced by two different manufacturers, prior to illness of case.

Table 8
 Poliomyelitis Cases with Virus Isolation
 (PSU Accepted Cases Through June 15, 1955)

Manufacturer		Isolation from patient only**			Isolation from Contact only***			Isolation from both Patient and Contact			Sub-Totals	Totals
		1*	2	3	1	2	3	1	2	3		
Cases in Vaccinated Individuals												
Cutter	P*	22		1	1		6				30	33
	NP*		1				2				3	
Lilly	P								1	1	1	2
	NP							1		1		
Wyeth	P	2					1				3	3
	NP									0		
Parke-Davis	P									0	0	0
	NP									0		
Pitman-Moore	P									0	0	0
	NP									0		
Cases in Family Contacts of Vaccinated Individuals												
Cutter	P	7			4		5				16	18
	NP				1		1			2		
Lilly	P	1								1	1	2
	NP						1			1		
Wyeth	P	2			3		1			6	6	7
	NP				1					1		
Parke-Davis	P									0	0	0
	NP									0		
Pitman-Moore	P									0	0	0
	NP									0		
Cases in Community Contacts of Vaccinated Individuals												
Cutter	P				2		4				6	7
	NP				1					1		
Lilly	P									0	0	0
	NP									0		
Wyeth	P									0	0	1
	NP	1								1		
Parke-Davis	P						1			1	1	1
	NP									0		
Pitman-Moore	P									0	0	0
	NP									0		

*Type polio virus

** Family and community contact cases not vaccinated

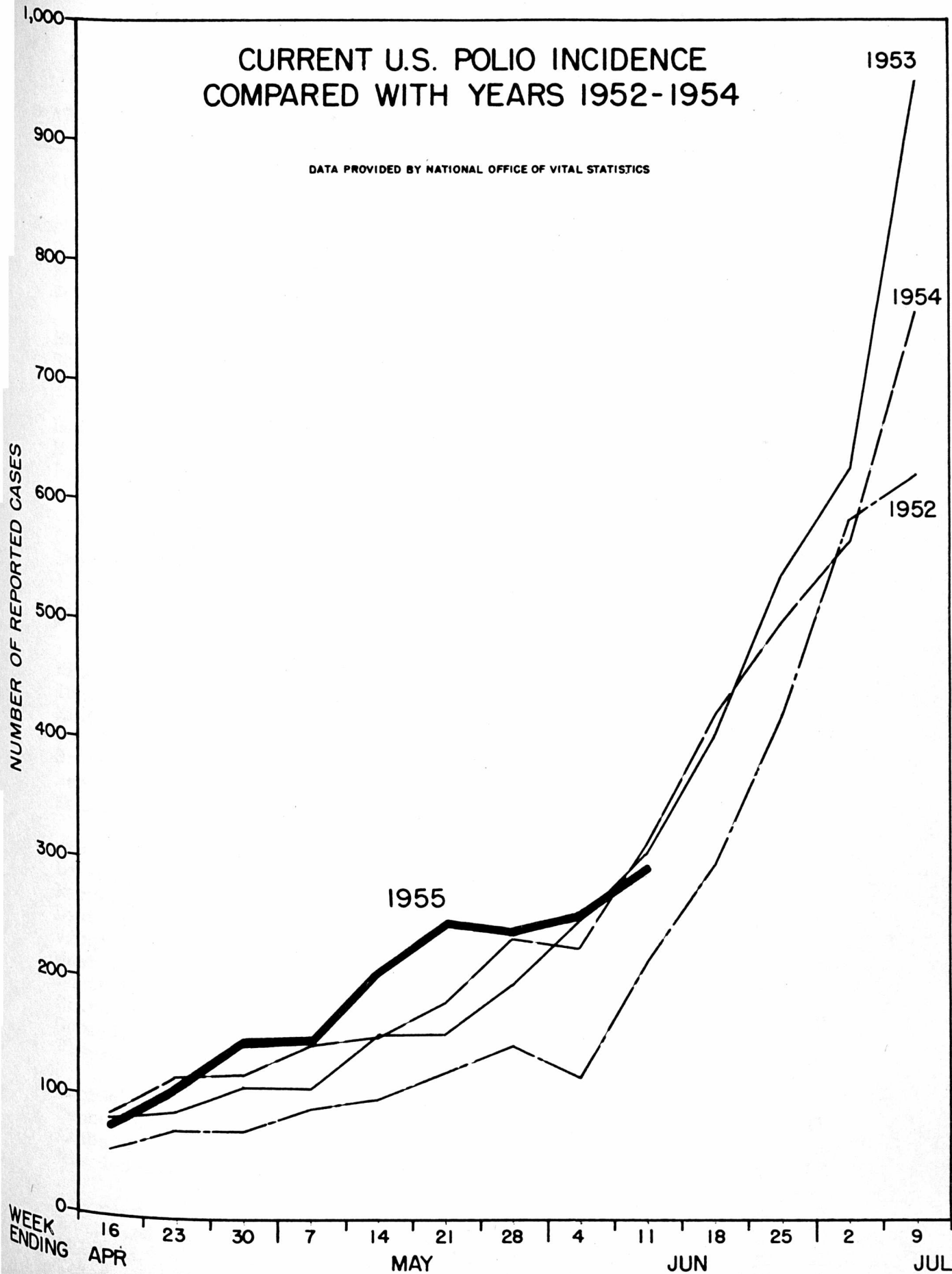
*** Family and community contacts vaccinated

*P - Paralytic; NP - Non-paralytic

C - Cutter; L-Lilly; W - Wyeth; PD - Parke-Davis; PM - Pitman-Moore

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1954

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS



TREND OF 1955 POLIOMYELITIS INCIDENCE

STATE	Cases Reported to NOV5*						Comparable Totals In:			
	During Week Endings:						Total 1954	1953	1952	
	5/7	5/14	5/21	5/28	6/4	6/11				
United States	149	206	246	240	251	293	1385	1254	1171	798
North East										
Maine	-	-	-	-	1	-	1	-	7	2
New Hampshire	-	-	-	-	-	-	-	-	5	-
Vermont	-	-	-	-	-	1	1	-	-	-
Massachusetts	2	1	-	-	-	1	4	5	10	6
Rhode Island	-	1	1	-	-	-	2	-	-	-
Connecticut	3	-	-	-	-	-	3	6	9	1
New York	5	12	10	18	11	21	77	22	49	24
New Jersey	1	1	-	2	5	6	15	5	10	2
Pennsylvania	2	10	10	3	9	No Report	34	4	12	7
North Central										
Ohio	7	2	5	6	9	20	49	35	30	15
Indiana	3	7	2	1	2	2	17	10	15	5
Illinois	15	7	9	9	5	8	53	14	24	19
Michigan	1	10	5	4	3	11	34	38	19	8
Wisconsin	1	-	4	5	5	7	22	13	13	7
Minnesota	1	2	5	3	5	2	18	4	35	5
Iowa	3	3	4	6	2	4	22	14	20	8
Missouri	3	2	1	1	4	3	14	22	25	8
North Dakota	-	1	-	-	1	1	3	2	4	3
South Dakota	1	-	-	6	2	-	9	1	6	8
Nebraska	3	3	4	3	1	2	16	11	12	9
Kansas	2	2	-	3	2	-	9	6	17	4
South										
Delaware	-	2	2	5	3	2	14	1	-	2
Maryland	-	-	2	7	3	5	17	4	7	2
District of Col.	-	-	-	2	-	1	3	1	3	1
Virginia	2	4	5	4	2	3	20	10	14	4
West Virginia	1	4	3	2	1	3	14	14	17	13
North Carolina	-	4	2	4	-	6	16	12	35	4
South Carolina	-	1	4	1	1	5	12	22	10	4
Georgia	4	9	11	3	5	5	37	49	25	4
Florida	9	5	7	6	15	9	51	115	40	36
Kentucky	3	1	2	6	9	6	27	13	14	6
Tennessee	1	-	-	3	4	3	11	11	23	11
Alabama	1	1	3	3	9	4	21	37	72	1
Mississippi	1	8	3	4	8	9	33	35	37	43
Arkansas	1	2	4	2	6	3	18	33	22	7
Louisiana	11	4	10	11	6	10	52	47	34	50
Oklahoma	4	-	5	1	-	3	13	35	32	11
Texas	13	19	37	37	52	52	210	289	229	275

STATE	Cases Reported to NOVS*						Comparable			
	During Week Endings:						Totals In:			
	5/7	5/14	5/21	5/28	6/4	6/11	Total	1954	1953	1952
West										
Montana	-	-	3	1	-	-	4	1	3	1
Idaho	3	9	15	22	4	11	64	3	1	8
Wyoming	1	2	-	-	-	-	3	2	3	1
Colorado	-	3	12	5	5	2	27	12	12	5
New Mexico	3	1	1	-	1	1	7	4	2	3
Arizona	6	1	5	1	3	1	17	17	14	12
Utah	1	1	-	1	-	1	4	7	7	5
Nevada	1	5	2	-	2	7	17	7	-	2
Washington	2	4	4	5	2	9	26	15	9	17
Oregon	1	7	4	6	4	4	26	11	15	6
California	27	45	40	28	39	39	218	235	169	123

JUNE 17, 1955

POLIOMYELITIS AMONG VACCINATED INDIVIDUALS
(PSU Accepted Cases June 9 - June 15, 1955)

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Inoc	Date 1st Symp	Date 1st Para	Site Inoc	Site 1st Para	Mfr	Lot No.	Remarks
Tex-20	San Antonio	AM	7	F	4-25	5-28	NEW None	LA	None	L	7080- 649342	CSF 29 Cells, Non-paralytic
Ia-6	Plaquemine	ED	6	F	4-21	?	5-9	LA	RL	L	?	
Miss-2	Carthage	MJ	8	F	4-29	5-6	5-13	RA	RA,RL	L	5080- 649339	
Mo-3	Wardell	AG	6	M	4-29	6-1	6-1	LA	RL	PM	175 FOLL	
Tenn-3	Shelby County	HW	9	M	4-27	5-28	None	LA	None	L	7079- 649341	Spinal fluid 24 cells
Cal-36	Contice-Costee County	KN	2	M	4-14 4-21	4-22	None	LA LA	None	C C	E6038 E6038	Confirmed by Health Dept. Non-paralytic
Kans-1	Newton	RW	7	F	4-28	5-1	None	LA	None	PM	175B006	CSF 303 Cells, Non-paralytic
Ga-4	Brooklet	DDS	8	M	4-18	?5-2	?5-16	?	RL	L	5081- 649340	
Miss-3	Magee	SB	7	M	4-18	6-3	None	?	None	L	5080- 649339	Spinal fluid 174 cells
Md-3	Towson	RO	8	F	4-25	6-2	6-4	LA	Bulbar	W	23606	
Iowa-2	Early	CM	7	M	4-27	6-6	None	?	None	PD	028847A	
NY-6	Greece	BS	9	M	5-25	6-2	None	LA	None	PD	02128C	Spinal fluid 60 cells
Colo-2	Denver	IC	6	M	4-28	5-14	5-23	LA	RL	L	78123-649335 78124-649336	
Ill-5	Peoria	DP	7	M	4-21	5-25	None	?	None	PD	028863B	Spinal fluid 107 cells
Ill-6	Harvard	WM	7	M	?4-23	5-30	6-1	LA	RL	PD	?	
Wash-2	Seattle	GR	7	M	5-19 6-6	6-6	None	?	None	PD PD	029127A 029126A	

FSU						Date	Date		Site			Lot	
CASE NO	Residence	Ini- tials	Age	Sex	Inoc	lst Symp	lst Para	Inoc	lst Para	Mfr	No.	Remarks	

REVISIONS

Revised Items Underlined

Miss-1	Sunflower Co.	EA	6	F	<u>4-18</u>	<u>4-20</u>	4-24	RA	RL	L	5080- 649339	
Colo-1	Denver	SC	1	M	4-15	4-21	4-24	Arm	?	C	E5972	<u>Quadraplegia. Type 1 virus from patient and Cutter vaccinated sibling 6-13 (Gebhardt)</u>
Mo-2	<u>Arnold</u>	FB	7	M	4-26	5-21	5-21	<u>LA</u>	Legs	PM	<u>175F014</u>	
NY-4	<u>Uniondale</u>	WI	7	M	5-24	6-4	None	<u>LA</u>	None	PD	<u>028850B</u>	Spinal fluid 250 cells
Cal-9	Puenta	RN	1	M	4-19	4-25	?	?	?	C	E5972	<u>Quadriplegia. Type 3 (6-14) Lennette</u>
Cal-26	Modesta	AR	4	F	4-20	5-6	5-6	LL	LL	C	?	<u>Type 1 virus (6-14) Lennette</u>
Cal-30	Oakland	DE	14	F	4-19	4-29	5-6	LA	RA, LA	C	?	<u>Type 1 virus (6-14) Lennette</u>
Ida-2	Pocatello	JS	6	M	4-20	4-26	4-27	LA	LA	C	?E6039 ?E6058	<u>Type 1 virus (6-14) Rocky Mtn. Lab.</u>
Tenn-3	<u>Memphis</u>	<u>HW</u>	9	M	<u>4-27</u>	5-28	None	LA	None	PD	7079- 649341	<u>Spinal fluid 24 cells</u>

JUNE 17, 1955

POLIOMYELITIS AMONG UNVACCINATED PERSONS GIVING HISTORY OF FAMILIAL CONTACT WITH INDIVIDUALS
WHO HAVE RECEIVED POLIOMYELITIS VACCINE
(PSU Accepted Cases June 9-June 15, 1955)

Vaccinated Individuals

Poliomyelitis Case (Not Vaccinated)

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Lot Mfr	Lot No	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
NY-X2	Wurtsboro	?M	?	?	5-19	?	?	PD	029128-C	PM	3	F	6-4	None	None	CSF 140 cells, non-paralytic
NY-X3	Yonkers	?H	?	?	5-20	None	None	PD	029128-C	MH	2	F	5-31	6-3	LL	
Ill-X3	Chicago	AH Jr.	6	M	5-5	None	None	PD	?028863-B ?028846-B	AH	28	M	5-27	5-29	RA	
Ill-X4	Chicago	AL	6	M	5-10	None	None	PD	?	DL	4	M	5-22	5-22	LL	
Va-X1	Arlington	?Q	?	F	4-26	None	None	L	8122- 649334	DO	11	F	6-6	None	None	CSF 88 cells, non-paralytic
Ohio-X6	Chagrin Falls	HW	7	F	5-4	None	None	L	8125- 649337	KW	5	F	5-29	None	None	CSF 90 cells, non-paralytic same contact as Ohio-X7
Ohio-X7	Chagrin Falls	HW	7	F	5-4	None	None	L	8125- 649337	EW	33	F	5-26	?	Trunk	8 mo. pregnant - Baby delivered 6-6 in good condition, same con- tact as Ohio-X6
Cal-X9	Orange County	?T	7	M	4-25 5-23	?	?	C	?	MT	1	M	6-5	?	?	Spinal Paralytic
Cal-X10	Orange County	?C	8	M	4-26 5-24	?	?	C	?	CC	11	F	6-3	?	?	Spinal Paralytic
Cal-X11	San Diego	?W	?	F	4-16	?	?	C	?	TJW	15	M	5-22	5-30	LL	
Ark-X1	Little Rock	FRB	8	M	4-21	None	None	L	7080- 649342	CB	6	M	6-7	None	None	Non-paralytic
Tex-X4	Austin	YH	7	F	4-20	None	None	L	7080- 649342	TH	2	F	5-1	5-2	RL	
Tex-X5	Houston	GE	7	F	4-19	None	None	L	7078- 649343	TE	1	M	5-17	5-20	LL	

JUNE 17, 1955

Vaccinated Individuals

Poliomyelitis Case (Not Vaccinated)

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Mfr	Lot No	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
Tex-X6	Webster	KC	8	F	4-19	None	None	L	7078- 649343	JC	35	F	5-8	5-15	LA	
Md-X8	Baltimore City	? ?	8 7	F ?	4-28 4-28	None None	None None	W W	236? 236?	GK	2	M	6-5	None	None	Spinal fluid 23 cells
Ida-X24	Hailey	?	7	M	4-20	None	None	C	E6039 E6058	PP	4	F	5-18	5-23	RL	Previously listed as Ida-C3
Ida-X25	Boise	?	?	F	4-20	?	?	C	"	SE	5	F	6-4	6-6	RL	
Iowa-X1	Early	CM	7	M	4-27	6-6	Non-para- lytic polio	PD	028847A	KM	13	M	5-18	None	None	Siblings of vaccinated case Iowa-2
Iowa-X2	Early	"	"	"	"	"	"	"	"	DM	4	M	6-7	None	None	" " " "
Ala-X6	Montgomery	HTL	9	F	4-19	None	None	L	5079-64-9338	JRL	2	M	6-3	?	Face	
Colo-X3	Denver	JP CP	8 6	M F	4-27 "	None "	None "	L "	8123 or 8124 " " "	RP	5	M	5-19	5-26	RA	
Ill-X5	Chicago	NJ	7	F	5-3	None	None	PD	?	VJ	2	F	6-5	6-8	Bulbar	
REVISIONS (Revised Items Underlined)																
Ida-X19	Bonnarsfarry	JH	7	M	4-27	None	None	C	<u>E6039</u> <u>E6058</u>	RH	13	M	5-18	<u>5-22</u>	RA	
Ida-X20	Boise	KR JR	10 9	F M	4-20 4-20	None None	None None	C C	" "	PR	35	M	5-15	<u>5-21</u>	Bulbar	Died 5-23
Colo-X1	Aurora	JS	1	F	4-15	4-13	Fever	C	E5972	MS	26	M	5-7	5-12	Bulbar	Type 1 from case and from one healthy contact (not vaccinated) 6-13 (Gebhardt)
Colo-X2	Denver	JG	1	F	4-16	None	None	C	E5972	CG	28	F	5-1	5-11	L. facial	Type 1 from JG, healthy vaccin- ated contact (6-13) Gebhardt.
Ill-X1	Lombard	JF DF	6 7	M F	4-26 4-26	None None	None None	PD PD	? ?	MF	2	M	5-25	<u>6-1</u>	Bulbar	

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REVISIONS
(Revised Items Underlined)

Vaccinated Individuals

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Incc	Date Illness	Type Illness	Mfr	Lot No	Ini- tials
NM-X3	Artesia	?	?	?	4-20	None	None	C	E6037	EN
		?	?	?	4-20	None	None	C	"	
Md-X7	Parkville	JM	7	F	4-22	5-26	Stomach Ache	W	23606	JM
Md-X5	Taneytown	<u>SS</u>	8	M	4-26	?	?	W	23606	ES
Ida-X4	Caldwell	?S	?	F	?	?	?	C	?E6039 ?E6058	AA
Ida-X6	Boise	JG	?	F	4-22	None	None	C	?E6039 ?E6058	JG
NY-X1	Sullivan	?L	?	?	5-20	None	None	PD	029128-C	AL
	County	?L	?	?	5-20	None	None	PD	029128-C	
Md-X6	Lutherville	MT	6	F	4-25	None	None	W	23606	RT
Ida-X5	Boise	JG	8	F	4-22	None	None	C	?E6039 ?E6058	AG
Ida-X7	American Falls	?	<u>7</u>	<u>M</u>	4-20	None	None	C	"	TT
Ida-X9	Mtn. Home	<u>SB</u>	8	F	<u>4-18</u>	<u>None</u>	<u>None</u>	C	"	IB
Ida-X14	Boise	<u>KK</u>	7	F	?	?	?	C	"	KK
Ida-X18	Boise	<u>WL</u>	9	M	4-27	None	None	C	"	LL

JUNE 17, 1955

Poliomyelitis Case (Not Vaccinated)

Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
4	F	5-26	6-3	Legs	Sibling contacts
3	M	5-27	5-29	LL	<u>Type 1 virus from 2 unvaccinated brothers 5-21 and 5-26 (Dr. Habel)</u>
10	F	5-21	5-23	RA	<u>Type 1 virus from polio case and from SS 6-2 (Dr. Habel)</u>
8	M	5-14	5-15	Bulbar	<u>Type 1 virus from polio case (Rocky Mt. Laboratory)</u>
4	F	5-8	5-12	LL	<u>Type 1 virus from contact 6-2 and from case 6-14 (Rky. Mt. Lab.)</u>
14	M	5-30	6-2	LA	
10	F	5-14	?	LA,RA	Paralysis noted first 6-7 type 1 virus from MT 5-31 (NIH)
6	M	5-8	5-10	LL	Type 1 virus from patient and contact (6-2) Rky.Mt. Lab.
5	M	5-12	5-15	RL	
32	F	5-10	5-14	RA	<u>Type 1 virus from unvaccinated contact 6-2 and from case 6-14 (Rocky Mt. Laboratory)</u>
2	F	5-24	5-27	LL	
10	F	5-14	None	None	Spinal fluid-many cells

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Vaccinated Individuals

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Mfr	Lot No
Ala-X1	<u>Wellington</u>	VV	8	F	4-18	<u>None</u>	<u>Ncne</u>	L	5079- 649338
Ala-X2	Hayneville	DC	9	M	4-19	<u>None</u>	<u>None</u>	L	5079- 649338
Ala-X3	Ragland	JW	8	F	4-21	<u>5-16</u>	<u>Tensil- litis</u>	L	5079- 649338
Ala-X4	Cottendale	?B	?	F	4-18	<u>None</u>	<u>Ncne</u>	L	5079- 649338
Ala-X5	Birmingham	?B	8	M	4-24	<u>None</u>	<u>None</u>	L	5079- 649338

JUNE 17, 1955

IN TO A 2-17 None None
 KK S B 2-57 2-58 IT

(Montgomery Lab)
 (Montgomery Lab)

JL 35 B 2-17 Poliomyelitis Case (Not Vaccinated)

(Montgomery Lab)
 (Montgomery Lab)

Ini- tials	Age	Sex	Date	Date	Site	Remarks
			1st Symp	1st Para	1st Para	
JV	3	F	5-14	5-20	LA	
SC	10	M	5-13	None	None	Non-paralytic
DW	5	M	5-3	None	None	Type 1 virus from vaccinated con- tact and case 6-6 (Montgomery Lab)
SB	2	F	5-27	5-31	RL	Type 1 virus from case 6-6 (Montgomery Lab)
TB	3	M	5-23	?	Legs	

(Montgomery Lab)
 (Montgomery Lab)

JUNE 17, 1955

POLIOMYELITIS AMONG UNVACCINATED PERSONS GIVING HISTORY OF COMMUNITY CONTACT WITH
INDIVIDUALS WHO HAVE RECEIVED POLIOMYELITIS VACCINE
(PSU Accepted Cases June 9 - June 15, 1955)

Vaccinated Individuals										POLIO CASE (NOT VACCINATED)						
PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Incc	Date Illness	Type Illness	Mfr	Lot No	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
Fa-C6	Cumberland RR Cc.	RR	6	M	4-27	5-4	fever	W	23612	HB	5	M	5-8	None	None	Neighbors. Type 1 from case (6-14) Henle
Md-C4	Towson	AL	1	F	4-16	None	None	C	E6044	BC	2	M	5-22	5-29	LL	Played with case Md-C3 who had direct contact with LL
Md-C5	Baltimore City	?	7	M	?	?	?	W	236?	GS	9	M	6-1	6-5	LA	Cousin, brief contact
Md-C6	Towson	AL	1	F	4-16	None	None	C	E6044	JO	9	M	6-3	None	None	Spinal Fluid 98 cells Md-C1 Contact of (mother) and Md-C3, who had direct contact with LL
Ill-C1	Elk Grove	?	?	?	4-28	?	?	PD	028864B	BH	8	F	5-20	?	Bulbar	Playmate, Type 1 Virus from case and both contacts 6-10 (Dr. Shaughnessy)
Ala-C2	Thomasville	ER	6	M	4-22	None	None	L	5079- 649338	MRT	4	F	6-1	6-4	LL	Playmate

Vaccinated Individuals

PSU CASE NO	Residence	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Mfr	Lot No.
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POLIO CASE (NOT VACCINATED)

Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
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REVISIONS
Revised Items Underlined

Md-C3	Towson	AL	1	F	4-16	None	None	C	E6044	SU	2	F	5-25	5-27	RL	Same contact as Md-C1 (Dr. Habel) Type 1 Virus from patient 6-2 and from unvaccinated brother of patient 6-3
Pa-C4	Juniata Co.	KK	7	F	4-27	5-14	Fever	W	?23612 ?23802	CH	12	M	5-2	None	None	Reclassified Non-paralytic playmate.
Md-C2	Towson	AL	1	F	4-16	None	None	C	E6044	JN	28	M	5-21	?6-2	RL	Type 1 Virus from case and two unvaccinated healthy siblings (6-13) NIH.

Ida-C3---Dropped--Changed to Ida-X24 family, not community contact