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POLIOMYELITIS SURVEILLANCE **REPORT NUMBER 13** Tabot coon DOISI daugedt beigeobt meed av MAY 14, 1955 INCLUDING A WEEKLY SUMMARY

> DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

COMMUNICABLE DISEASE CENTER Theodore J. Bauer, M.D., Chief

> EPIDEMIOLOGY BRANCH Alexander D. Langmuir, M.D., Chief Ira L. Myers, M.D., Asst. to Chief

POLIOMYELITIS SURVEILLANCE UNIT Neal Nathanson, M.D., Chief Earl Diamond, M.A., Statistician

Address: 50 Seventh Street, N.E., Atlanta 5, Georgia

Phone Numbers:

Daytime	, Mor	ıday	- Frida	ay,	8:00	AM -	- 5:30	O PM	EST:	E
Night,	5:30	PM -	10:00	PM	EST.	and	Sat.	and	Sun:	F

Elgin 3311 Elgin 2176

Home	Pho	nes:	长带人	
	Dr.	Neal Nathanson	CHerokee	7520
	Mr.	Earl Diamond	ATwood	2791
	Dr.	A. D. Langmuir	CRescent	9207
	Dr.	Ira L. Myers	DEarborn	0482

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.

One new case was accepted today from Delaware (Dr. Floyd Hudson, Polio Reporting Officer). This eight-year-old male developed symptoms 24 hours after receiving Wyeth Vaccine and showed weakness of both legs when first examined by a physician 10 days later. PSU Case No. Tex-1 was revised today on receipt of further information. This 7-year-old male was inoculated in the left arm with Lilly Vaccine and developed mild bulbar signs 9 days later. There was no paralysis in the left arm as originally reported.

A total of 74 cases have been accepted through 12:00 noon today (5-14-55) and are summarized below (Table 1).

Table 1

Cases by State and Manufacturer (PSU Accepted Cases through May 14, 1955)

heido, . M. . . Bauer, M.D., Ohief

State	Cutter	Lilly	Davis	Moore Wyet	h Total
California	24*	alfOred	est . C.M	Ira L. Myers,	24
Idaho	16*				16
Oregon	3	TIMU HOMAN	IS SURVEIL	POLICHTRICI	3
Louisiana	1	2*	G.M , noans	dtsM [set]	3
Washington	1 1	batisticias	E.A.M.	Earl Diamon	1
Colorado	1	sinceD .	Atlants 5	ath Street, N.E.	Addī r est (50 Sev
Illinois	1				1
Indiana		1			Phone Municerse
Georgia	1	1			2
New York	di C i Ci	: BSE M9 0	E:2 - MA (ois , vabra - 7sb	alle contract 1
0 2126 AV15 0	the IN	and Stant	, jsE bris .	PM - 10:00 PM EST	Might, 5130
West Virginia		2			2
Texas	1	4**			zenon's emoli 5
Hawaii	1	okee 7520	meH0		i Dr. Nev
Missouri	ī	ed 2791	ATvo	brons.bl fr	toli . The l
Nevada	3		CRes	D. Langmir	.A 10 3
	12	Sensi CLAZ	DEar	erevii i	Dr. Ir
Pennsylvania				2	. 2
Wyoming	2				2104 JA2 198
Connecticut	1*			Carl Ran Barra and San San	1
Mississippi		desser 1		. III DODIACIÓ TOTO	ano mi oni linor
Ohio	06 2180		U ag <u>nalir</u> i	WING SIGILOWSDILO	l'alla on the locat
astrolerode.	SHEAR	(rotated *a	1901-110 %	TAJEC SOUNDITION	C DIRGINICIA (CONTRACT
Virginia	uniieic	1*	isa eda 10		success has a rise
Delaware	ngmilio en Hi Shedd	antonetere	deno ene no. deno está si:	ir participants wi	the benefit of a
Total	59	12	0	0 3	724

* Includes 1 non-paralytic case. ** Includes 3 non-paralytic cases.

to paralysis in the levieraq or

information they may wish concerning data from their State. Suspect cases are under investigation in California, Idaho, Kansas, and Nebraska.

be made rability. State Health Officers, of course, are free to reveal any

This sight-year-old male developed symptoms NEAL NATHADOFON JOR

NEAL NATHANSON, M.D., CHIEF POLIOMYELITIS SURVEILLANCE UNIT

NN:bm 5-14-55 600

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MAY 14, 1955 12:00 AM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE COMMUNICABLE DISEASE CENTER

POLIOMYELITIS SURVEILLANCE UNIT Accepted Cases Associated with Poliomyelitis Vaccine

Daily Supplementary Report

PSU CASE NO.	. Residence	Init- ials	Age	Sex	Date Inoc	Date lst Symp	Date 1st Para	Site Inoc	Site lst Para	Mfr	Lot No	Remarks	
Del-1	Wilmington	DM	8	М	4-29	4-30	?	LA	Legs	W	23610	Onset 24 hours vaccination	after
						F (Revise	EVISIONS d Items	Underli	ned)				
Tex-1	Houston	нн	7	M	4-19	4-27	4-28	LA	Bulbar	L	7078-6493	343	
WVa-2	Mabscot	TAC	6	M	4-21	5-4	5-5	LA	Legs	L	8122- <u>6493</u>	<u>334</u>	
Code of	Abbreviations PSU - Poliom Mfr - Manufa C - Cutter L - Lilly W - Wyeth	: yelitis cturer Laborat Laborato Laborato	Surve cories pries pries	illand	e Unit		LA - Left RA - Righ LL - Left RL - Righ	t Arm nt Arm t Leg on nt Leg o	r Buttocl or Butto	ks cks			

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THIRD WEEKLY SUMMARY

The present summary contains a tabulation of all accepted cases through May 13, as well as five tables in which the data are organized to permit observation of characteristic patterns where they exist. At present, reports to PSU on non-vaccinated cases are not sufficiently complete to warrant a separate tabulation. The weekly data distributed by the National Office of Vital Statistics is already generally available.

During the past week an expanded list of laboratory facilities was presented. It is expected that a more definitive directory, including the area covered by each laboratory, will be available for presentation in the near future. It is also planned that general recommendations for collection, storage and shipment of specimens will be included. At present, isolation of Type 1 poliomyelitis virus from the stools of 6 Cutter associated cases has been reported. Type 3 virus has been found in the stool of a Lilly associated case. A tabulation of this information was presented in PSU Report Number 10, and in the absence of new reports is not again included.

A revision of priorities recommended for case reporting was sent as a teletype message to State Health Officers on Friday afternoon, May 13. In the near future, PSU plans to issue a definitive attachment discussing reporting procedures/

Case Incidence by State and Manufacturer

The majority of Cutter associated cases have occurred in California and Idaho, with a scattering through the rest of the country, reflecting the distribution of Cutter vaccine. Lilly associated cases have been reported mainly from the South, where most of the Lilly vaccine was distributed. Only 2 cases associated with Wyeth vaccine were reported, both from Pennsylvania, where Wyeth vaccine was used exclusively in NFIP clinics. PSU has received no reports of definite cases associated with Pittman-Moore or Parke-Davis vaccine.

Approximate Attack Rates and Lot Numbers

Table 1 provides a more detailed breakdown of data on the Cutter associated cases. The NFIP provided information on the approximate number of inoculations given in their clinics. The figures for commercial distribution are less accurate since only partial use was made of commercially distributed vaccine. There is a considerable span of attack rates from a high for NFIP clinics in Idaho, 4 to 5 per 10,000 inoculations, to a low for NFIP clinics in California (outside San Diego), Nevada and Hawaii, 0 to 1 per 10,000. Cases have been associated with many lots of Cutter vaccine. It is of interest that PSU has no accepted cases from Arizona and New Mexico, where Cutter vaccine was used in all NFIP clinics.

Cases by Date of Inoculation

In Table 2, cases have been broken down into 3 groups: NFIP clinics using Cutter vaccine, NFIP clinics using Lilly and Wyeth vaccine, and commercially distributed Cutter vaccine. It is evident that the majority of Cutter associated cases (NFIP and commercial) reported thus far received their vaccination in the first half of the two-week period, April 13 to April 28. The Lilly and Wyeth associated cases are presented for comparison.

Correlation of Site of Inoculation and First Paralysis

Table 3 shows that among most of the Cutter associated cases a correlation exists between the site of inoculation and the site of paralysis but that in only 2 of 7 paralytic Lilly associated cases was such a correlation found.

Intervals Between Inoculation and Paralysis open meet and seese bedalooses

The interval between inoculation and first paralysis ranged between 5 and 20 days (Table 5) for Cutter associated cases with over three-quarters falling between 6 and 14 days. For comparison data from an experiment published by Dr. David Bodian is also presented. In this experiment live Mahoney virus was injected into the right calf of 32 cynomolgus monkeys and the incubation period between injection and the onset of paralysis recorded. Approximately three-quarters of the animals showed incubation periods in the range 6 to 14 days.

Comparison of Expected and Reported Cases

Through the courtesy of the NFIP, information for each state was provided, including estimated populations in 1st and 2nd grades, estimated number of children inoculated in NFIP clinics through May 7th, and manufacturer of the vaccine provided to each state. These data have been consolidated, giving an estimate of the number of inoculations given by each manufacturer (Table 5).

From data available in the Statistics Section of CDC, an estimate was made of the number of cases of poliomyelitis that might be expected to have occurred purely by chance among these groups. This estimate was based on weekly 5-year medians of reported cases of poliomyelitis for each state. Extensive studies of the age distribution of poliomyelitis in 1952 revealed that 9.7 per cent of the cases, both in the North and in the South, occurred in 7- and 8-year-old children. Therefore, as a reasonable appreximation, it was assumed that 10 per cent of the 5-year median could be expected among lst and 2nd grade children. These estimates for each state were then corrected for the per cent of the lst and 2nd grade children inoculated prior to May 7. These estimates were consolidated and are shown in Table 5 as "expected cases." They may be compared with the "reported cases" occurring among 6, 7 and 8-year olds, and accepted by PSU. For the period April 17 through May 7, only 3 cases were expected among 308,748 Cutter vaccinated children, whereas, 28 have been reported. During the same period a total of 12 cases were expected among 2,513,962 children inoculated with Lilly vaccine and 12 have been reported. In the weeks ending May 7 and May 14, one or less cases were expected among 775,920 children receiving Wyeth vaccine, and one case has been reported for each of these weeks. For the areas in which Pittman-Moore and Parke-Davis vaccine was distributed, the expected number of cases is one or less per week, since these vaccines were distributed for the most part in central and northern states where the expectancy of polio is relatively low at this time of year.

(This Summary Report has been prepared by Dr. Neal Nathanson, Dr. Alexander D. Langmuir, and Mr. Earl Diamond. Special assistance in the calculations in Table 5 was provided by Dr. R. E. Serfling, Mrs. Ida Sherman, Mr. Jack Karush, and Dr. Jack Hall)

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For the period furil 17 through May 7, only 7 eases were expected many 308,748 Sutter vacinated children, whereas, 28 have been reported. write the same parted a total of 32 cases were expected among 2,513,952 with the same parted with Lilly vacuums and 12 have been reported. In the rest emiling May 7 and May 14, one of Reps cases were expected manny 75,920 with we releving May 14, one of Reps cases were expected among 75,920 with we releving May 14, one of Reps cases were expected among 75,920 with we releving May 14, one of Reps cases were expected among 75,920 with we releve the areas in which there have been reported for each of the weeks. For the areas in which there have no for an fraction of the second of the three the areas in which there were an formation of the weeks. For the areas in which there have been reported for each of the weeks. For the areas in which there are been reported for each of the weeks. For the areas in which there are been reported for each of the second structure of carters of cases to one or loos per week, atmos to of the the appendent of point is whethed we is this time of year.

(Inta Summary hororet has been prepared by it. Weal Mathanabri, Int. Alexander D. Unruntr, and M. Earl Stamond. Special Statistics astistance in the calculations in Table 5 was provided by Dr. R. E. Serfling, Drs. Ida Shorman, Mr. Jack Karush, and D. Dr. Jack Hall)

Cases and Approximate Attack Rates Among Certain Groups Receiving Cutter Vaccine

(PSU Accepted Cases through May 13, 1955)

Distribution Outlet	Estimated Inoculations*	Accepted Cases	Approximate rates per 10,000 inoc- ulations	Lot Numbers	Number of Cases
		NFIP CLINI	CS		
San Diego	30,000	4	1-2	?E6038) ?E5970) ?E5928)	110 1198 1914 19
Idaho	33,000	15	4-5	E6058 ?E6039) ?E5058)	6 · 9
California (ex cept San Diego Nevada and	ç− ⊳),	1870 û. M			
Hawaii	140,000	9 0 0 0 0 0 0 0 0 0 0 0	0-1	E5972 E5928 E6038 E6045 E6039 ?	2 2 1 1 1
	Amount Distributed ^{***}	DMMERCIAL D	ISTRIBUTION		
California	110,000	15	1-2	E6045 E5971 E5972 ?E6045) ?E5974)	6 6 2 1
United States (except Cali- fornia)	60,000	I 1 16 1 05 01 11 11	2-4 .enfo .enfo	E5972 E5973 E6044 E6045 ? ?E6039)	7 1 4 1 2 1

* Numbers of estimated inoculations in NFIP Clinics through 4/28. Information provided by Dr. G. Foard McGinnes and Dr. Thomas D. Dublin who consolidated reports from States.

** Approximate figures not corrected for the amounts recovered.

Cases by Date of Inoculation

(PSU Accepted Cases through May 13, 1955)

Each Symbol Represents One Case C Cutter Laboratories L Eli Lilly Co. W Wyeth Laboratories

> C C C

> С

С

С

NFIP Clinics* (Cutter Vaccine)

				U		U	U		U								
				С		С	С	С	С	С				С			
				С	С	С	С	С	С	С			С	С	С		
April	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28**	
								2									

С

С

Commercial Distribution*** (Cutter Vaccine)

> C April 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28**

NFIP Clinics* (Wyeth and Lilly Vaccine) L L L L April 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

** 6, 7 and 8 year olds.
*** Use of Cutter vaccine discontinued April 28.
*** Ages 1 to 5 and 9 and over.

Cases by Site of Inoculation Site of First Paralysis, and Manufacturer

(PSU Accepted Cases through May 13, 1955)

Vellar		ILI AD-VX		1033400		1	rooni Lev
istel	Site	of			Mar	nufactur	er o at ac
neibo	Inoculation	First Paralysis	<u>(</u>	Cutter	ini.	Lilly	Wyeth
	Left arm	Left arm		29		2	stal I
S	Right arm	Right arm		3			11 8
1.1	Left leg	Left leg		1			
	Right leg	Right leg		7			
	Arm	Other arm		1			
	Arm	Leg		4		4	1.01
	Arm	Bulbar		2		1	
	Non-paralyti	c		3		5	9 <u>51</u> 9 <u>51</u>
	Data incomple	ete		9		03	*i 111
				59		12	2

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The Relative Vancoine and some in Kenturky, Massourn, Kanson, and

Cases by Distribution Outlet and Interval between Inoculation and Onset of Paralysis

Interva lation of Para	l Inocu- to Onset lysis		Cut NFIP <u>Clinics</u>	cte C c	r ommer- ial	Wy NF Cl	eth IP ini	cs	Li NF Cl	lly IP inic	5	Мс І (<u>Вс</u>	onkey Data Odian)*
56 78 9	days II II II		2 3 7 1		2 1 2 1 6		1			1 1 3	mis mis gol gol		2 1 8
10 11 12 13 14	11 11 11		2 1 2		4 1 4 2 3		1	3.1 1	Uther Leg Bulba	ait 1	araiy taoom	Ara Ara Ara Boniqu	4 2 1 6 2
15 16 17 18 19	17 11 11 11	12	1 1 1		1							16,733 (k)/6a	1 1 2
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25 Non-par	" ralytic		2		l					5			1
Data in Totals	ncomplete		<u>4</u> 28		3 31		2			12		-	32

(PSU Accepted Cases through May 13, 1955)

* Data abstracted from David Bodian "Viremia in Experimental Poliomyelitis," American Journal of Hygiene, Vol. 60, page 358, November, 1954. In the experiment cited Live Mahoney virus was injected into the right calf of 32 cynomolgus macaques and the incubation period between injection and onset of paralysis recorded.

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

				Week I	Ending			Total	
Mfr.***	Number Vaccinated	Cases	Apr. 23	Apr. 30	May 7	May 14	May 21	 Apr. 17- May 7	
Cutter	308,748	Expid. Repid.	1 5	0-1 14	1 9	1	2	3 28	
Lilly	2,513,962	Exp'd. Rep'd.	3 3	4 6	5 3	6	6	12 12	
Parke- Davis	834,148	Exp'd. Rep'd.	0-1 0	0 - 1 0	0-1 0	0-1 -	0-1 -	1 0	
Pittman- Moore	410,648	Exp'd. Rep'd.	0-1 0	0-1 0	0-1 0	0-1 -	0-1 -	0-1 0	
yeth	775,920	Exp'd. Rep'd.	0-1 0	0-1 0	0-1 1	0-1 1	0-1 -	0-1 1 ^{****}	

(PSU Accepted Cases through May 13, 1955)

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

** Reported cases for ages 6, 7, or 8 having onsets between April 17 and May 14 and accepted by PSU.

*** 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, part of Ohio, and Colorado.

PARKE-DAVIS vaccine was used in Michigan, Illinois, Iowa, Wyoming, and Utah,

PITTMAN-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 case with onset in the week ending May 14 is omitted since data was totaled for the period April 17 to May 7.

Comparison of Expected[®] and Happyhod[®] Cases of Policavalitic among Children Landallated in WEF Olinics from april 15 fo May 7, 1995

(PSU .ccepted Gases through May 11, 1955)

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0-1. *				.b'qx≧	8.48, and	-161 8
£~0		1-0 0			175,920	

pected cases estimated from weekly 5-year medians of cases of police this reported to National Office of Vital Statistics by the States A

sported cases for ages 6, 7, or 8 hawing onsets between april 17 and 14 and accepted by P3U.

DUTTER vaccine was used in Idaho, Mevada, Arizona, New Maxide Fander. Derm California.

LIMAY vaccine was used in Tomas, Okláhoma, Louistan, Arkansza, distintigi, sma. Tennessed, Florida, Goorgis, South Caroline, Forth Caroline, Virginia, Virginia, Indiana, part ef Ohio, and Golorado. ARG-DAVIS vaccine was used in Michigan, Illincia, Iowa, Tyoning, and

"ITTIME-MUCHE vaccine was used in Kentucky, Missouri, Kanaza, and uska. MLTH vaccine was used in Permavivania, Delaware, Marviand, Mistript of 2014, and part of Chio. One case with onset in the week ending May 14 is onitized since data we bed for the period spril 17 to May 7.

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MAY 14, 1955

	DEPARTMENT OF HEALTH,	EDUCATION, AND WELFARE	
PUBLIC	HEALTH SERVICE	COMMUNICABLE DISEASE	CENTER
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POLIOMYELITIS SURVEILLANCE UNIT Accepted Cases Associated with Poliomyelitis Vaccine (Weekly Cumulative Summary)

All Cases through PSU Report No. 12

PSU CASE NO.	Residence	Init- ials	Age	Sex	Date Inoc	Date 1st Symp	Date 1st Para	Site Inoc	Site lst Para	Mfr	Lot No	Remarks
Cal-1	San Diego	LV	7	М	4-16	4-20	4-23	LA	LA	C	?E603 8, E5970 ?E5928	
Cal-2	San Diego	JMcD	7.	M	4-16	4-22	4-24	LA	LA	C	11 03	
Cal-3	SanDiego	CE	8	F	4-16	4-25	4-27	LA	LA	C ୍ର	?E6038, E5970 ?E5928	Type 1 Virus in stool 5-4
C#1-4	Ventura	MD	1	М	4-16	4-21-	4–25	LA	LA	C	E5971	Dr. Lennette
Cal-5	Napa	GK	1	F	4-15	4-22	4-24	LA	LA	С	?E6045,?5974	
Cal-6	Oakland	RF	4	M	4–18	4-24	4-26	LA	LA	С	E6045	Type 1 Virus in stool 5-2 Dr. Lennette
Cal-7	Oakland	JB	3	F	4-14	4-21	4-27	RL	RL	С	E6045	Type 1 virus in
Cal-8	Los Angeles	BM	5	F	4-19	4-24	4-25	LA	LA	С	E5971	stool 5-8 (Dr.Lennette
Cal-9	Los Angeles Co.	RN	1	M	4-19	4-25	?	?	?	C	E5972	Quadriplegia
Cal-10	Los Angeles Co.	AW	6	М	4-18	4-25	4-28	LA	LA	С	?	
Cal-11	Riverside	DM	8	F	4-18	4-23	4-26	RL	RL	C	E5972	

	一个个自己的问题。					Date	Date
PSU		Init-			Date	lst	lst
CASE NO.	Residence	ials	Age	Sex	Inoc	Symp	Para
Ca1-12	Stanislaw	CS	2	F	4-17	4-25	4-27
	Co.						
Ca1-14	San Diego	JMcC	6	F	4-16	4-22	None
Cal-15	Santa Barbara	AG	4	F	4-18	4-23	4-28
Ca1-16	Vallejo	BG	2	F	4-21	4-27	5-3
Cal-17	Riverside	TP	6	F	4–22	4-28	?
Cal-18	San Marino	BC	12	F	4-20	4-26	4-29
Cal-19	LaCanada	CC	4	F	4-22	4-24	4-27
Cal-20	Alameda Co.	JH	24	М	4-21	4-30	5-5
Cal-21	SierraMadre	JP	1	М	4-19	4-28	5-1
Cal-22	Los Angeles Co.	LB	10	М	4-19	4-27	?
Cal-23	Los Angeles Co.	KJ	7	М	4-22	4-27	4-30
Cal-24	Riverside	DT	8	М	4-27	5-3	?
Cal-25	Tulare Co.	JS	7	F	4-26	4-26	5-3
Colo-1	Denver	SC	1	М	4-15	4-21	4-24
Conn-1	Manchester	GS	12	М	4-14	5-2	None

Cita	Site		Tot	
Inoc	Para	Mfr	No	Remarks
LA	?	C	E6045	
LA	None	С	E6038?,	E59 70? ,
RL	RL	С	E5971	
LA	LA	С	E6045	
LA	RL	С	E5928	
RL	RL	С	E5971	Dr. Leanste
?	LA	С	E5971	1970 - Type I Wirus I . aroni 6.4
RA	RA	C	E6045	
LA	Legs	C	E5972	Paraplegia
RL	Legs	С	E5971	Paraplegia
LA	LA	C	E6038	
?	RA	С	E5928	
LA	LA	С	E5972	Ill at time of inoculation
Arm	ngg ar eilithite	С	E5972	Quadriplegia
LA	None	C	E6044	Type 1 virus in stool 5-10 (Dr. Melnick)

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PSU CASE NO.	Residence	Init- ials	Age	N Sex	Date Inoc	Date 1st Symp
Ga-1	Columbus	KF	6	М	4-19	4-23
Ga-2	Smyrna	SS	2	M	4–20	4-29
тн-1	Hilo City	sv	7	M	4-26	5-2
Ida-1	Pocatello	SP	7	F	4-18	4-23
Ida-2	Pocatello	JS	6	М	4-20	4-26
Ida-3	Orofino	DC	8	H F	4-21	4-26
Ida-4	Lewiston	BP	7	F	4-19	4-24
Ida-5	Moscow	JLK	8	F	4-19	4-25
Ida-6	Moscow	CS	7	F	4-20	4-28
Ida-7	Malad	SV	7	м	4-19	4-26
Ida-8	Preston	DC	7	М	4-19	4-26
Ida-9	Wallace	SB	5	F	4-21	4-27
Ida-10	ClearwaterCo	JG.	7	М	4-21	5-1
Ida-11	Valley Co.	СН	8	F	4-19	5-2
Ida-12	Jerome Co.	UC	7	M	4-19	5-2
Ida-13	Strevell	GK	7	М	4-21	?5-4
Ida-14	Idaho Falls	DE	8	М	4-19	5-7

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Date 1st Para	Site	Site lst Para	Mfr	Lot No		Remarks
4-27	RA	Bulbar	L	E5081-	Type	3 virus in stool
5-2	LA	LA	С	649340 ?	5-1	1 (Montgomery Lab)
5-4	LA	LA	С	E6038	Bul	bar, died 5-5
4-24	LA	LA	С	E6039?	Die	ed 4-27, fulminating
4-27	LA	LA	C	E6058? "	bu	lbar
1-27	۳A	RΔ	C	5 E6058	360s	Ived 2 injections.
4-~1	IIA	101	U	00000	1.900.	rering rapidir.
4-27	LA	LA	С	E6058	popp	lega and track; is
4-27	LA	LA	C	E6058	Bul	bar, died 5-1
4-29	LA	LA	С	E6058	Bri Fr	er, died 5.1. (Type)
4-27	RA	RA	С	E6039?,	E6058?	
4-29	LA	LA	С	E6058		
5-2	LA	LA	С	E6039?,	E6058?	1 5-3 (br.Shaughneesy)
5-5	LA	LA	С	81	11	lets fine i virge is
5-8	LA	LA	С	?	50%. 8 7	
None	LA	None	с	E6039?,	E605 8 ?	Non-paralytic
?5-5	LA	LA	C	Lot.	tt	
5-9	LA	Bulbar	C	11	89	Fulminating bulbar, Died 5-10

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PSU CASE NO.	Residence	Init- ials	Age	Sex	Date Inoc	Date lst Symp	Date 1st Para
Ida-15	Driggs	AD	6	F	4-25	?	?
Ida-16	Lewiston	JG	7	М	4-21	5-1	5-6
111-1	Chicago	EK	l	М	4-16	4-21	4-25
Ind-1	N.Vernon	WC	7	М	4-20	4-27	4-29
La-l	Winnsboro	?B	6	М	4-19	4-19	4-28
La-2	Monroe	?S	6	F	4-21	4-22	None
La-3	New Orleans	ED	2	М	4-26	5-1	5-3
Miss-l	Sunflower Co	• EA	6	F	4–18	4-24	4-24
Mo-l	St. Louis	ES	4	М	4-14 4-21	4-26	4-26
Nev-1	Ely	MS	2	М	4-17	4-28	?
Nev-2	Ely	JD	8	М	4-17	4-30	?
Nev-3	Las Vegas	MB	7	F	4-21	5-2	5-7
NY-1	Tarrytown	TG	5	F	4-16	5-1	5-2
Ohio-l	Cincinnati	TLK	1	М	4-17	4-27	4-27
Ore-1	Portland	KK	4	М	4-20	4-27	4-30
Ore-2	Portland	SJ	11	F	4-15	4-29	1-29

 Site Inoc	Site lst Para	Mfr	Lot No	Remarks
LA	LA	С	E6058	
LA	LA	С	E6039?,E6	058?
Leg	-	C	E6044	Paraplegia Type 1 virus in stool 5-3 (Dr.Shaughnessy)
LA	LA	L	8123-6493	35
LA	Legs	L	5081	
Arm	None	L	5081	
LA	RA	C	E5973	Bulbar, died 5-4, ?Type l virus in stool 5-7. Dr.Fox.
RA	RL	L	5080- 649339	Progressed to weakness of both legs and trunk; is recovering rapidly.
RA		С	?	
RA	RA	?	?	Received 2 injections.
RL	RL	C	E6045	ngper. Sarasaran (Alexa)
LL	?	С	E6045	Paralysis LL, LA.
LA?	Bulbar	C	E6039	
LA	LL	C	E6044	Slight weakness, LL only
?RL	RL	C	E6044	
LA	LA	C	E5972	
LA	Legs	С	E5972	

Folkinsking sollars

PSU CASE NO.	Residence	Init- ials	Age	Sex	Date Inoc	Date 1st Symp
Ore-3	Portland	EH	4	F	4-20	4-29
Pa-1	Edinboro	JSJ	7	М	4-26	5-1
Pa-2	Delaware Co.	. CS	7	F	4-29	5-8
Tex-1	Houston	нн	7	М	4-19	4-27
Tex-2	Houston	EB	1	F	4-19	4-26
Tex-3	Houston	TP	9	М	4-19	4-27
Tex-4	Yoakum	GS	8	M	4-21	4-27
Tex-5	Tarrant	PGH	7	М	4-21	5-4
Va-1	Pulaski Co.	TA	7	F	4-27	5-6
Wash-1	Wiley City	VB	4	F	4-18	4-25
WVA-1	Princeton	ES	7	М	4-24	4-29
WVa-2	Mabscott	TAC	6	М	4-21	5-4
Wyo-1	Casper	CL	4	F	4-18	4-24
Wyo-2	Casper	CL	4	F	4-19	4-25

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Date lst Para	Site Inoc	Site lst Para	Mfr	Lot No Remarks
5-3	LA	LA	С	E59 7 2
5-3	LA	Legs	M	23710
5-9	LA	LA	М	23616 Quadriplegia
4-28	LA	LA	L	7078-649343
5-3	LL	Legs	C	E6045
None	LA	None	L	7078-649343
None	?	None	L	7080-649342
None	LA	None	L	7078-649343 Non-paralytic
None	LA	None	L	7081-649343 Non-paralytic
4-27	?	LA	С	E5972
5-1	LA	LL	L	8122-649334
5-5	LA	Legs	L	8122-6:,9334
4-25	LA	LA	С	E5972
5-1	LA	LA	C	E5972

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