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PUBLIC HEALTH

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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.

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Poliomyelitis in Vaccinated Individuals

Dr. Joseph Melnick, Yale University, New Haven, previously reported isolation of type 1 virus from PSU Case No. Conn-1. He now reports identification of type 1 virus in the stool of a sibling of this patient. Dr. Melnick also notes that a complement fixation test run on serum collected from this sibling several days before the positive stool specimen was collected showed a high titer against type 1 virus but not against types 2 and 3.

Dr. Melnick has also grown type 1 virus from the stools of two children who developed minor illnesses with fever and sore throat, 17 and 23 days after inoculation with Cutter vaccine. Complement fixation tests run on serum drawn from both of these children several days prior to the collection of stool specimens for virus isolation were negative.

A consolidated summary of data on non-paralytic cases is presented in Table 1. Of the 88 vaccinated cases accepted through May 23, four of 60 Cutter associated cases have been classified as non-paralytic. Nine of 19 Lilly associated cases, and one of 8 Wyeth cases have also been so classified. Stool specimens from 10 of these 16 non-paralytic cases have been collected and to date virus isolation from 2 of them has been reported. In addition, virus has been isolated from the contact of one case although repeated efforts to isolate virus from the case have thus far been unsuccessful.

PSU recognizes that it is difficult to make a clinical diagnosis of poliomyelitis in the absence of localized paralysis, and has adopted the following criteria for accepting such cases:

- 1) a definite diagnosis has been made by an attending physician.
- 2) the state polio reporting officer has accepted the diagnosis on the basis of his appraisal of all data available including knowledge of the qualifications of the physicians or hospital reporting the case.
- 3) Laboratory confirmation by examination of spinal fluid or virus isolation.

It is felt, however, that in spite of careful screening, less weight can be put on non-paralytic than on paralytic cases. For more definite demarcation of paralytic and non-paralytic cases, Tables 2 and 3 have been slightly re-arranged.

Four new cases were accepted today. Of these **the two Texas** cases (non-paralytic) and the West Virginia case had received Lilly vaccine. The fourth case (PSU Case No. Del-2) was inoculated with Wyeth vaccine on April 21 and developed paraplegia on May 14. This patient was intimately exposed to a non-vaccinated child who developed bulbar polio on April 20. Vaccinated cases accepted through 12:00 Noon today (5-24-55) total 92 (Table 2).

#### Poliomyelitis in Parents and Siblings of Vaccinated Individuals

Dr. Karl Habel, and Dr. Alexis Shelokov of the National Institutes of Health, report isolation of type 1 virus from the stool of PSU Case No. Md-XI (unvaccinated). Type 1 virus has also been grown from the stool of the 16 month old asymptomatic Cutter-vaccinated daughter of this patient.

Three non-vaccinated paralytic cases were accepted today from Maryland and the District of Columbia (1). All give a history of family contact with Wyeth vaccinated children. A total of 35 cases in parents and siblings of vaccinated individuals have been accepted through 12:00 Noon, 5-24-55 (Table 3)

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Table 1

Non-Paralytic Poliomyelitis in Vaccinated Individuals  
(PSU Accepted Cases Through May 23, 1955)

PSU CASE NO	Mfr* and Lot No.	Cells in Spinal Fluid	Stool Specimen Collected	Result	Remarks
Cal-14	C ?E6038 ?E5970 ?E5928	No data	Yes	Type 1	Virus isolated from contacts only
Ida-12	C ?E6039 ?E6058	118	Yes		
Conn-1	C E6044	55	Yes	Type 1	
Nev-4	C E5974	No data	Yes		Confirmed by two consultants
Tex-3	L7078-649343	241	No		
Tex-4	L7080-649342	780	No		
Tex-5	L7078-649343	38	No		
Tex-6	L7078-649343	166	No		
Tex-7	L7078-649343	28	Yes		
Tex-8	L7080-649342	494	No		
Tex-9	L7078-649343	194	No		
Va-1	L7078-649343	1300	Yes		
La-2	L5081- ?	130	Yes	Type 2	
Pa-1	W23710	No data	Yes		First reported as showing weakness of legs, status now in doubt.
Pa-5	W235 ?	98	Yes		
Pa-6	W23612	38	Yes		

\* C - Cutter, L - Lilly, W - Wyeth

Table 2

Vaccinated Cases by State and Manufacturer  
(PSU Accepted Cases Through May 24, 1955)

State	C**		L		PD		PM		W		Total
	P*	NP	P	NP	P	NP	P	NP	P	NP	
California	24	1									25
Idaho	15	1									16
Oregon	3										3
Louisiana	1		2	1							4
Washington	1										1
Colorado	1										1
Illinois	1				1						2
Indiana			1								1
Georgia	1		1								2
New York	1										1
West Virginia			4								4
Texas	1		1	9							11
Hawaii	1										1
Missouri	1										1
Nevada	3	1									4
Pennsylvania									4	3	7
Wyoming	1										1
Connecticut		1									1
Mississippi			1								1
Ohio	1										1
Virginia				1							1
Delaware									2		2
Arkansas				1							1
Total	56	4	10	12	1	0	0	0	6	3	92

\* P - Paralytic; NP - Non-paralytic

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

Table 3

Poliomyelitis in Parents and Siblings of Vaccinated Individuals  
(PSU Accepted Cases Through May 24, 1955)

State	Manufacturer**										Relationship to Vaccinate			Health of Vaccinate		
	C		L		W		PD		PM		Par-ent	Sib-ling	No Data	Ill	Not Ill	No Date
	P*	NP*	P	NP	P	NP	P	NP	P	NP						
California	6	1									5	1	1	2	2	3
Idaho	7											7		2	3	2
Colorado	2										2				2	
Georgia	2										1	1		2		
Maryland	1				3						1	2	1	1	2	1
Montana	1										1			1		
Nevada	3	1									2	2		1	3	
Tennessee	1										1			1		
New Mexico	1											1			1	
Texas			1								1				1	
Arizona		1									1				1	
Hawaii	1											1		1		
Washington	1	1									2			1	1	
District of Columbia					1							1			1	
Total	26	4	1	0	4	0	0	0	0	0	17	16	2	12	17	6

\* P - Paralytic; NP - Non-paralytic

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



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POLIOMYELITIS SURVEILLANCE UNIT

Accepted Cases Associated with Poliomyelitis Vaccine  
Daily Supplementary Report

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-10	Amarillo	CDC	7	M	4-20	5-15	None	LA	None	L	7078-649343	Non-paralytic
Tex-11	Houston	GG	9	M	4-19	5-14	None	Arm	None	L	7078-649343	Non-paralytic
Del-2	Delmar	NLJ	7	F	4-21	5-10	5-14	LA	Legs	W	23610	Exposed to unvaccinated case in school
WVa-4	Kanawha Co	FM	7	M	4-26	5-19	?	LA	Arms	L	8122-649334	Tonsillectomy one week before inoculation

REVISIONS  
(Revised Items Underlined 5-24-55)

Conn-1	Manchester	GS	12	M	4-14	5-2	None	LA	None	C	E6044	Type I virus from patient 5-10. <u>Type 1 virus from family contact 5-23</u> <u>(Dr. Melnick)</u>
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Code of Abbreviations:

PSU - Poliomyelitis Surveillance Unit  
Mfr - Manufacturer  
C - Cutter Laboratories  
L - Lilly Laboratories  
W - Wyeth Laboratories

LA - Left Arm  
RA - Right Arm  
LL - Left Leg or Buttocks  
RL - Right Leg or Buttocks





POLIOMYELITIS AMONG UNVACCINATED PERSONS GIVING HISTORY OF FAMILIAL CONTACT WITH INDIVIDUALS  
WHO HAVE RECEIVED POLIOMYELITIS VACCINE  
(PSU Accepted Cases May 24, 1955)

Vaccinated Individuals										Poliomyelitis Case (Not Vaccinated)						Remarks
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	
<u>NEW</u>																
Md-X3	Oakland	WS	?	?	4-25	None	None	W	23604	WS	19	M	5-16	5-18	Legs	Specimens to Dr.Habel, NIH
Md-X4	Prince Georges Co.	WR	7	F	4-18	4-25	Headache Malaise	W	236??	WR	4	M	5-21	5-22	RA	Specimens to Dr.Habel, NIH
D.C-X1	Washington	WC	6	M	4-27	None	None	W	23611	JC	4	M	5-16	5-18	Bulbar	Specimens to Dr.Habel, NIH
<u>REVISIONS</u>																
Md-X1	Baltimore	AL	1	F	4-16	None	None	C	E6044	NL	23	F	5-8	5-12	Bulbar	<u>Type 1 virus from vaccinated individual and case 5-23 (Dr. Habel)</u>

