

I. Current Poliomyelitis Morbidity Trends

Poliomyelitis incidence by week for the current year, with similar data for the three preceding years, is presented in the accompanying figure, drawn from data published by the National Office of Vital Statistics. Incidence rose sharply this week as in previous years, but remains somewhat lower than in the same period in the past three years.

Poliomyelitis incidence by states for the weeks ending June 11 through July 16 is presented in Table 1, together with a six week total for this and the previous three years. The rise in national incidence for the current week is due primarily to an increased number of cases reported from many of the northern states, with particularly sharp increases in Massachusetts, Rhode Island, New Jersey, Illinois, Missouri, and Nebraska. Incidence in the southern states remained relatively stable with marked increases only in North Carolina, Kentucky, and Arkansas, while none of the Western states showed any major change from the previous weeks.

II. Routine Poliomyelitis Surveillance

Table 2 summarizes poliomyelitis cases in vaccinated individuals, in parents and siblings of vaccinated individuals, and in community contacts, accepted by PSU through July 20, 1955. (See tabular summary for details of cases accepted since July 13 and revisions of previously listed cases.)

Table 3 presents a comparison of "reported" and "expected" cases for the weeks ending April 23 through July 23 among children inoculated in NFIP clinics through May 7. The "expected" numbers represent rough estimates of cases that would have occurred in the respective groups of first and second grade children if they had not been vaccinated and if this year's poliomyelitis incidence approximated the median of the last five years. This week a few minor changes in the expected numbers have been made, utilizing revised information from the states on first inoculations in the NFIP program.

(This Summary Report was prepared by Dr. Neal Nathanson, Dr. Wm. Jackson Hall, and Dr. Alexander D. Langmuir, with assistance from the Statistics Section, CDC.)

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

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS

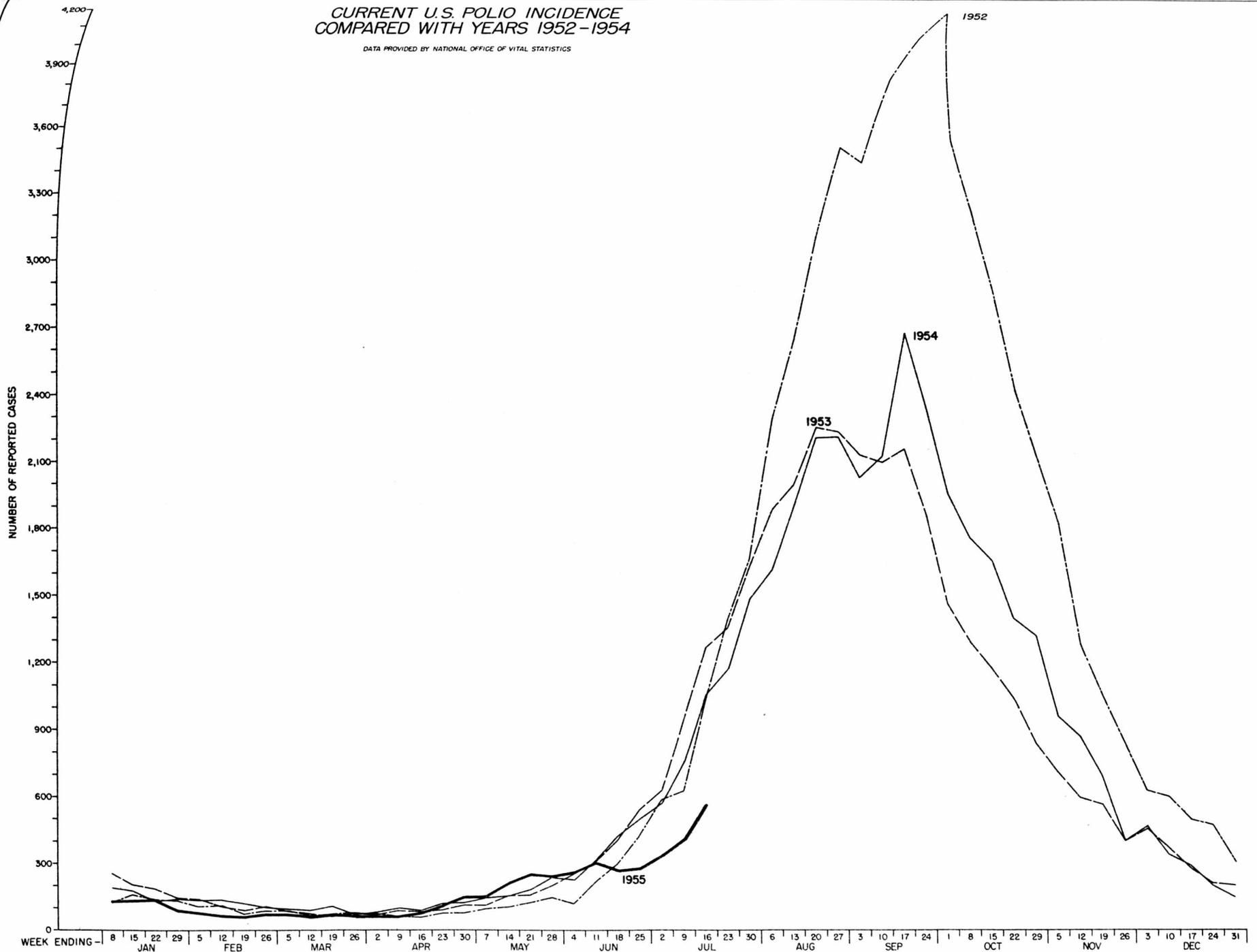


Table I

TREND OF 1955 POLIOMYELITIS INCIDENCE

STATE	Cases Reported to NOVS*						6 Week Total	Comparable Totals In:		
	6/11	6/18	6/25	7/2	7/9	7/16		1954	1953	1952
United States	300	266	277	333	406	565	2147	3613	4082	3186
North East										
Maine	-	1	1	-	1	1	4	4	16	8
New Hampshire	-	-	-	-	-	-	-	2	14	2
Vermont	1	-	1	-	3	-	5	2	4	3
Massachusetts	1	2	4	1	24	52	84	25	32	13
Rhode Island	-	-	1	-	-	5	6	1	7	-
Connecticut	-	-	-	5	5	5	15	37	47	7
New York	21	19	16	25	25	43	149	96	272	92
New Jersey	6	2	4	5	3	16	36	42	54	18
Pennsylvania	7	8	10	10	7	10	52	42	74	18
North Central										
Ohio	20	4	12	22	14	21	93	133	206	141
Indiana	2	3	4	4	6	7	26	38	68	26
Illinois	8	9	13	10	5	29	74	91	186	52
Michigan	11	9	9	9	18	31	87	159	144	54
Wisconsin	7	3	4	9	6	14	43	23	34	26
Minnesota	2	3	6	2	13	2	28	35	146	32
Iowa	4	4	3	10	11	14	46	107	149	144
Missouri	3	3	-	4	4	10	24	43	118	28
North Dakota	1	1	1	3	3	4	13	9	4	5
South Dakota	-	3	1	-	3	-	7	10	13	21
Nebraska	2	-	1	3	3	8	17	80	48	61
Kansas	-	5	8	2	3	8	26	74	77	62
South										
Delaware	2	1	-	1	3	-	7	4	3	-
Maryland	5	4	2	3	7	2	23	11	47	3
District of Col.	1	-	1	1	1	2	6	5	11	6
Virginia	3	4	6	8	7	8	36	39	121	31
West Virginia	3	-	1	3	2	1	10	20	51	40
North Carolina	6	1	3	8	9	20	47	49	258	42
South Carolina	5	1	8	6	12	15	47	62	31	2
Georgia	5	1	4	5	6	6	27	120	116	65
Florida	9	29	14	10	3	10	75	246	85	98
Kentucky	6	-	5	3	5	10	29	57	72	32
Tennessee	3	4	3	3	10	9	32	58	141	50
Alabama	4	9	3	8	9	3	36	68	163	53
Mississippi	9	5	7	9	-	15	45	126	118	145
Arkansas	3	7	1	5	5	11	32	65	75	41
Louisiana	10	14	12	17	8	3	64	115	142	164
Oklahoma	3	5	3	4	12	8	35	127	140	105
Texas	52	62	45	43	76	83	361	658	430	1017

Table I (Continued)

STATE	Cases Reported to NOVS*						6 Week Total	Comparable Totals in:		
	During Week Ending: 6/11	6/18	6/25	7/2	7/9	7/16		1954	1953	1952
West										
Montana	-	-	2	2	1	-	5	4	13	19
Idaho	11	3	7	8	7	6	42	3	3	7
Wyoming	-	-	1	1	-	-	2	45	8	5
Colorado	2	3	3	6	2	2	18	33	25	29
New Mexico	1	-	3	10	8	4	26	16	24	47
Arizona	1	1	1	6	-	3	12	17	28	29
Utah	1	1	2	2	-	1	7	11	19	1
Nevada	7	5	3	6	4	2	27	15	9	2
Washington	9	2	2	3	5	7	28	28	26	68
Oregon	4	4	3	3	4	5	23	30	16	23
California	39	22	33	25	43	49	210	498	294	249

*National Office of Vital Statistics

Table 2

Poliomyelitis Cases with Some Association
with Poliomyelitis Vaccine
(PSU Accepted Cases through July 20, 1955)

	G*		L		PD		PM		W	
	P	NP								
Cases Vaccinated 5-7 or Before with Onsets 30 Days or Less After Vaccination										
Totals thru 7-20	62	12	17	23	2	2	3	2	9	3
(No New Cases 7-14 thru 7-20)	74		40		4		5		12	
Cases Vaccinated 5-7 or Before with Onsets 31 Days or More After Vaccination										
Totals thru 7-13 (Revised)	1	1	9	22	2	3	3	0	1	0
New Cases 7-14 thru 7-20	0	0	2	2	0	0	0	1	2	0
Totals thru 7-20	1	1	11	24	2	3	3	1	3	0
	2		35		5		4		3	
Cases Vaccinated 5-8 or Later with Onsets 30 Days or Less After Vaccination										
Totals thru 7-13 (Revised)			3	4	11	10	1	0		
New Cases 7-14 thru 7-20			0	0	1	0	0	0		
Totals thru 7-20	0	0	3	4	12	10	1	0	0	0
	0		7		22		1		0	
Cases Vaccinated 5-8 or Later with Onsets 31 Days or More after Vaccination										
Totals thru 7-13 (Revised)					2	1				
New Cases 7-14 thru 7-20					1	1				
Totals thru 7-20	0	0	0	0	3	2	0	0	0	0
	0		0		5		0		0	
Cases in Family Contacts of Vaccinated Individuals										
Totals thru 7-13 (Revised)**	68	20	23	6	24	8	2	0	10	3
New Cases 7-14 thru 7-20	0	1	2	1	2	0	0	0	0	0
Totals thru 7-20**	68	21	25	7	26	8	2	0	10	3
	89		32		34		2		13	
Cases in Community Contacts of Vaccinated Individuals										
Totals thru 7-13 (Revised)***	14	2	5	0	2	0	0	1	4	3
New Cases 7-14 thru 7-20	0	0	0	0	1	1	0	0	0	0
Totals thru 7-20***	14	2	5	0	3	1	0	1	4	3
	16		5		4		1		7	

*Vaccine Manufacturers: C - Cutter; L- Lilly; PD - Parke-Davis;
PM- Pitman-Moore; W -Wyeth.

** Does not include 5 paralytic and 2 non-paralytic cases whose contacts had inoculations with vaccines of two manufacturers.

*** Does not include 1 paralytic case whose contacts had inoculations with vaccines of two manufacturers.

Table 3

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

Vaccine Mfr.*** and Number Vaccinated		Cases	Apr. 23	Apr. 30	May 7	May 14	May 21	May 28	June 4	June 11	June 18	June 25	July 2	July 9	July 16	July 23
Cutter 303,000	Reported	P	7	14	8	1	2									
		NP	1		5	2			1	1						
		Total	8	14	13	3	2	-	-	1	1	-	-	-	-	-
	Expected	Total	0-1	0-1	1	1	1	1	1	2	2	2	3	4	4	6
Lilly 2,514,000	Reported	P	3	3	3	3	3	3	1	2	3	3	1	1		
		NP	1	3	4	8	7	10	2	2	4	4	1	1	1	
		Total	4	6	7	11	10	13	3	4	7	7	2	2	1	-
	Expected	Total	1	4	5	6	6	7	11	16	20	22	29	39	37	43
Parke-Davis 860,000	Reported	P					1	1	1		1					
		NP						3	1	1						
		Total	-	-	-	-	1	4	2	1	1	-	-	-	-	-
	Expected	Total	0-1	0-1	0-1	0-1	1	1	1	1	2	3	3	10	15	19
Pitman-Mocre 411,000	Reported	P			1	1			3		1					
		NP				1	1				1					
		Total	-	-	1	2	1	-	3	-	2	-	-	-	-	-
	Expected	Total	0	0-1	0-1	0-1	0-1	0-1	1	1	1	2	3	6	6	9
Wyeth 775,000	Reported	P		1	2	2	3	1	1					2		
		NP				2	1									
		Total	-	1	2	4	4	1	1	-	-	-	-	2	-	-
	Expected	Total	0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	1	2	3	3	4	7

Footnotes on Back

* 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 include only cases accepted by PSU and vaccinated in NFIP Clinics April 16 through 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. WYETH vaccine was used in Pennsylvania, Delaware, Maryland, District of Columbia, and part of Ohio.

POLIOMYELITIS AMONG VACCINATED INDIVIDUALS
(PSU Accepted Cases July 14 - July 20, 1955)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc	Date 1st Symp	Date 1st Para	Site Inoc	Date 1st Para	Mfr.	Lot No.	Remarks
NY-18	Kings	CO	6	M	6-2	7-6	7-10 ^{NEW}	LA	Legs	PD	029127A	Bulbar, died 7-12. Had chicken pox 2 weeks before.
Ark-4	Sebastian	AT	8	M	4-19	7-11	None	LA	None	L	7080- 649342	Spinal fluid, 120 cells.
Ark-5	Phillips	JBN	8	M	4-20 5-4	7-7	7-7	LA LA	LL	L	7080- 649342	
Mo-4	St.Louis	SM	7	F	4-27	6-13	None	?	None	PM	?	Spinal fluid, 512 cells
Pa-8	Northampton	RP	7	M	4-28	7-6	7-12	LA	Bulbar	W	23716	
Pa-9	Venango	JF	7	M	4-25 to 4-29	7-8	7-9	RA	Neck and back	W	?23612 ?23801	
Va-9	Pulaski	LSD	7	M	4-28	6-27	6-30	Arm	RL	L	7080- 649343	
NH-1	Cheshire	GG	8	M	Early June	7-16	None	?	None	PD	029126A	

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

NEW (Continued)

NY-19	Westchester	LS	8	M	6-2	6-30	6-30	LA	RL	PD	029128C	
					6-20			LA		PD	029128C	
NY-20	Rensselaer	MMcN	7	F	Early May	7-6	None	LA	None	L	?	Spinal fluid 100 cells, Non-paralytic, Vaccinated in Tennessee.

REVISIONS

(Revised Items Underlined)

Ida-16	Nex Perce	JG	<u>7</u>	M	<u>4-21</u>	<u>5-1</u>	<u>5-6</u>	LA	LA	C	?6039 ?6058	<u>Type I virus 7-2 (RML)</u>
NY-6	Monroe	BDS	<u>9</u>	M	<u>5-25</u>	<u>6-7</u>	None	LA	None	PD	025128C	Spinal fluid 60 cells, Non-paralytic.
NY-11	Sullivan	<u>MS</u>	8	M	<u>4-19</u>	<u>6-18</u>	<u>6-21</u>	RA	<u>Right</u> <u>facial</u>	L	?	Vaccinated in Texas

POLIOMYELITIS AMONG UNVACCINATED PERSONS GIVING HISTORY OF FAMILIAL CONTACT WITH INDIVIDUALS
WHO HAVE RECEIVED POLIOMYELITIS VACCINE
(PSU Accepted Cases July 14 - July 20, 1955)

Vaccinated Individuals

Poliomyelitis Cases (Not vaccinated)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Lot Mfr. No.	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
NY-X9	Orange	?S	9	M	5-20	?	?	PD	NEW 029128C	15	F	6-20	6-24	RA	
Ida-X28	Bingham	?H	?	?	4-19	or ?	?	C	?E6039 ?E6058	4	M	6-1	None	None	Type 1 virus from case 7-13 (RML).
Miss-X5	Yazoo	LV	7	F	4-27	None	None	L	5080-649339	13	M	5-27	None	None	Spinal fluid, 444 cells.
Ala-X11	Shelby	?H	7	M	4-21	None	None	L	5079-649338	37	F	7-2	7-5	Arms, Legs, trunk.	
Ark-X2	Miller	JBG	6	M	5-18	7-12	fever	L	7080-649342	14	M	7-12	7-12	LA, LL	
NY-X10	Erie	?	?	?	6-2	?	?	PD	029129A	5	M	7-4	7-4	Bulbar	
REVISIONS (Revised Items Underlined)															
Ida-X10	Nez Perce	?A	7	F	4-19	?	?	C	?E6039 ?E6058	3	M	5-14	5-18	RL	Type 1 virus from case and vaccinated contact 7-5 (RML)
Ida-X14	Ada	KK	7	F	?	?	?	C	"	2	F	5-24	5-27	LL	Type 1 from case and parent 7-11 (RML)
Ida-X18	Ada	WL	9	M	4-27	None	None	C	"	10	F	5-14	None	None	Spinal fluid, many cells. Type 1 virus, from case and 2 non-vaccinated contacts 7-13 (RML).
Ida-X20	Ada	KR	10	F	4-20	None	None	C	"	35	M	5-15	5-21	bulbar	Died 5-23, Type 1 virus from one vaccinated and one non-vaccinated contact 7-13 (RML)
		JR	9	M	4-20	None	None	C	"						
Ida-X25	Ada	?	?	F	4-20	?	?	C	"	5	F	6-4	6-6	RL	Type 1 virus from case 7-11 (RML)

FAMILIAL CONTACTS (CONTINUED)

PSU CASE NO	County	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Lot Mfr. No.	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
Revisions (Continued)															
Minn-X1	Ramsey	SW	7	F	5-24	None	None	PD 028849A	JW	34	F	6-8	?	?	Paralytic. <u>Type I from JW and SW.</u>
Ore-X7	Lane	SA	7	F	5-24	None	None	PD 028847A	MO	35	F	7-1	?	Bulbar	<u>Type I virus from SA and 4 non-vaccinated contacts.</u>
NY-X5	Sullivan	<u>TM</u>	<u>5</u>	<u>M</u>	5-19	<u>None</u>	<u>None</u>	PD 029128C	<u>PIM</u>	27	F	6-12	<u>6-13</u>	<u>Trunk</u>	<u>Quadraplegia (Mother of NY-X2)</u>
NY-X2	Sullivan	<u>TM</u>	<u>5</u>	<u>M</u>	5-19	<u>None</u>	<u>None</u>	PD 029128C	<u>PKM</u>	3	F	6-4	<u>6-7</u>	<u>Arms</u>	<u>Paralytic (Daughter of NY-X5)</u>

