

7-25-51 - part of 7-22-51

Group #	Group	10 - Untreated	Control
1	10 - Untreated	0220	0220
2	10 - Untreated	0221	0221
3	10 - Untreated	0222	0222
4	10 - Untreated	0223	0223
5	10 - Untreated	0224	0224
6	10 - Untreated	0225	0225
7	10 - Untreated	0226	0226
8	10 - Untreated	0227	0227
9	10 - Untreated	0228	0228
10	10 - Untreated	0229	0229

Group #	Group	10 - Untreated	Control
1	10 - Untreated	0230	0230
2	10 - Untreated	0231	0231
3	10 - Untreated	0232	0232
4	10 - Untreated	0233	0233
5	10 - Untreated	0234	0234
6	10 - Untreated	0235	0235
7	10 - Untreated	0236	0236
8	10 - Untreated	0237	0237
9	10 - Untreated	0238	0238
10	10 - Untreated	0239	0239

7-25-51
 Cortison
 Waugh
 Virus

Vaughan Virus — Test of 7-25-51

Group	Rhesus No.	Result	Notes
10 ⁻² - UNTREATED	2229	NP	
	2230	0	
	2231	P ₁₅ S	(0.5)
	2232	NP	
	2233	0	
Cortisone	2234	P ₁₀ : D ₁₁	(?) <i>enteritis</i> (Acute polio - cervical + thoracic)
	2235	P ₁₀ S	(10)
	2236	P ₇ D ₂₀	(10)
	2237	P ₁₁ S	(10)
	2238	P ₉ S	(8)
10 ⁻³ - UNTREATED	2239	P ₈ S	(1)
	2240	NP	
	2241	0	
	2242	0	
	2243	P ₁₃ S	(2)
10 ⁻³ - Cortisone	2244	P ₁₀ D ₂₃	(10)
	2245	P ₂₃ S	(2)
	2246	P ₁₆ (S)	(3)
	2247	0	
	2248	0	

Rh #

7/25/51
GRAMS

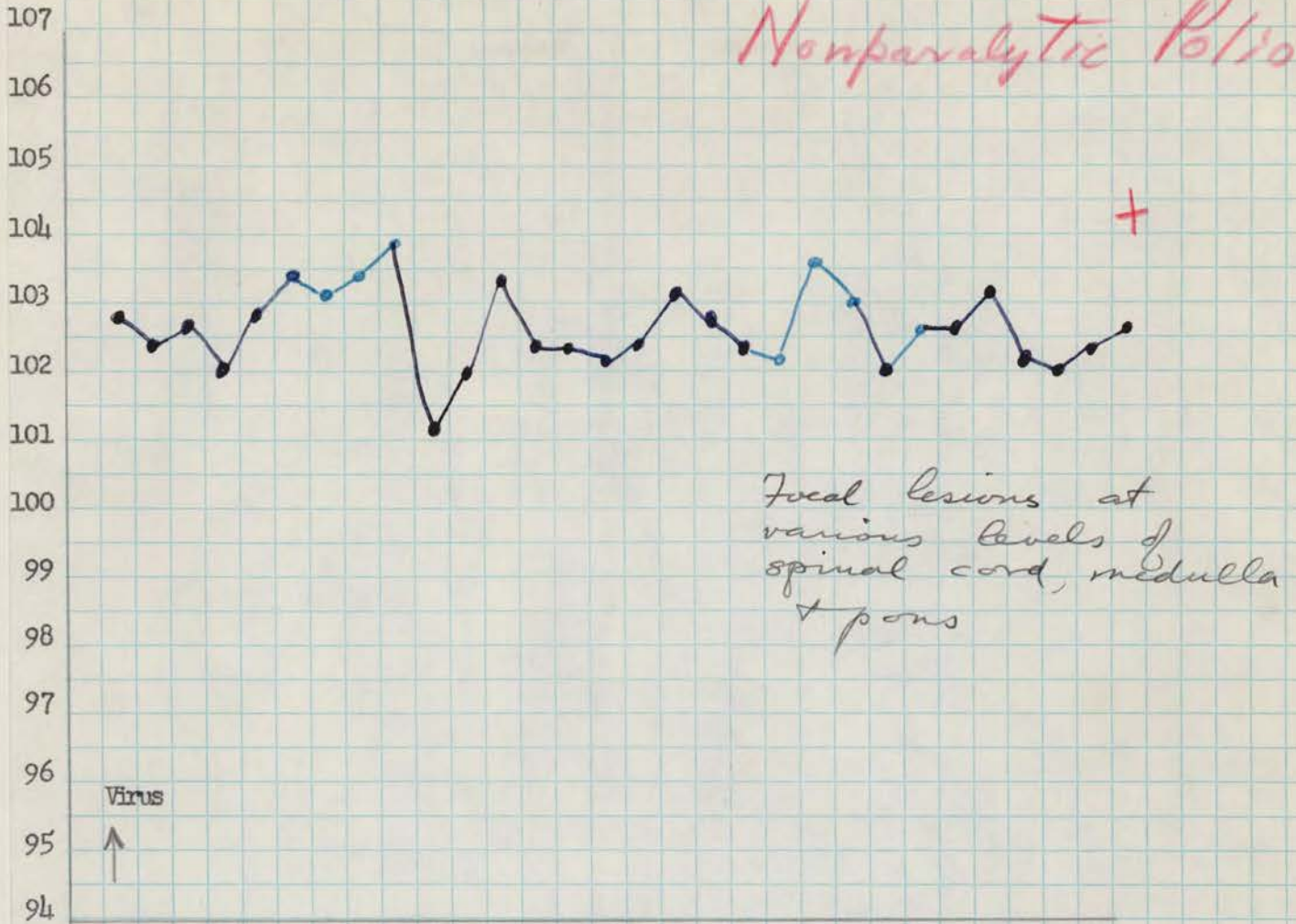
2229	1824
2230	2405
2231	2808
2232	2401
2233	2607
2234	2000
2235	2438
2236	2941
2237	1716
2238	2160
2239	2339
2240	2461
2241	2516
2242	1770
2243	2442
2244	1973
2245	1797
2246	2206
2247	2842
2248	2011

Rh 2229

Virus, 0.5 cc 1:100

Control

Nonparalytic Polio



Focal lesions at various levels of spinal cord, medulla + pons

Virus



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

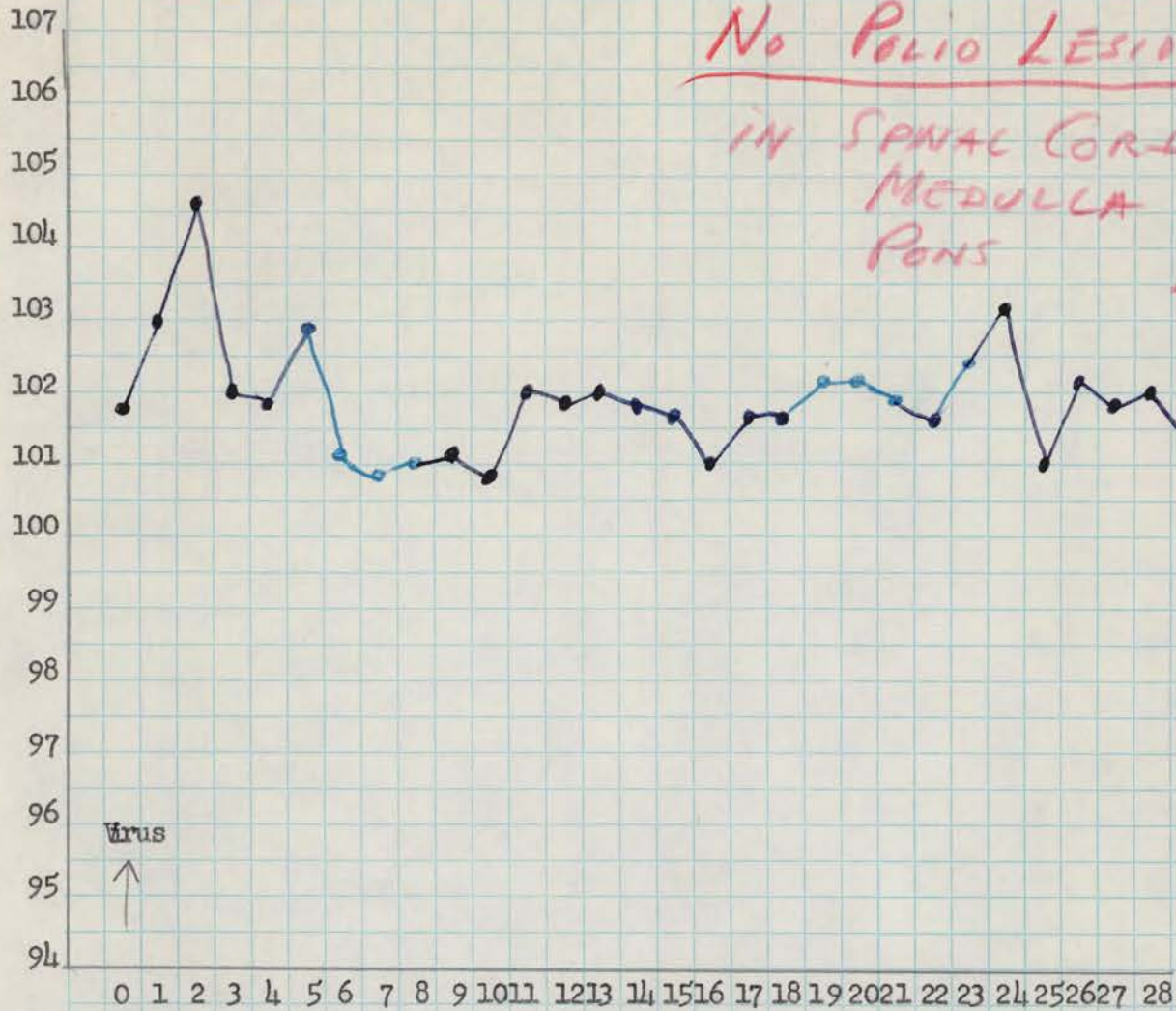
July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 8 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/24 - sacrificed for histology
CNS in 2A.

Rh 2230

Virus, 0.5 cc 1:100

Control



No POLIO LESIONS
 IN SPINAL CORD
 MEDULLA
 PONS

+

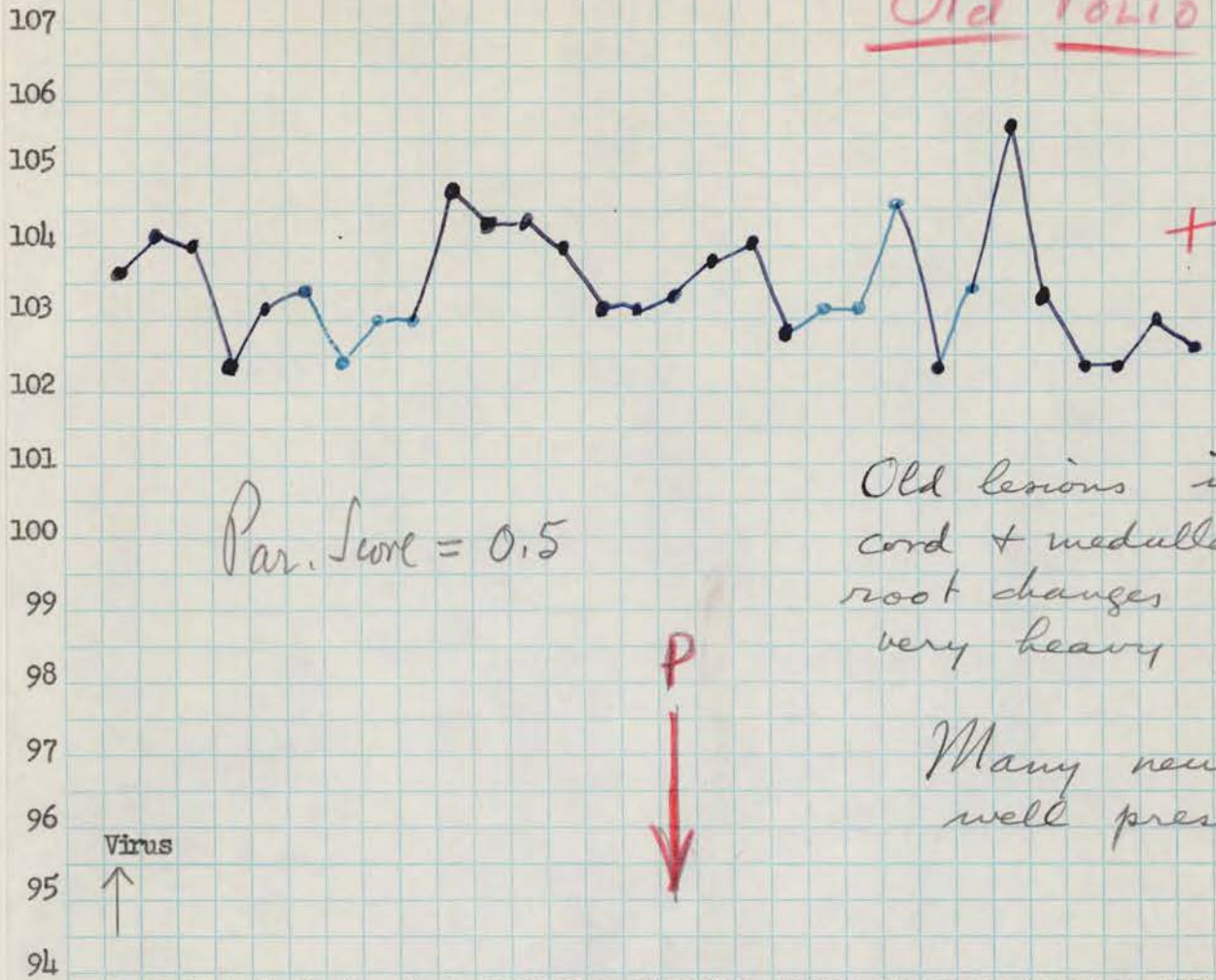
Virus



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/24 - Sacrificed ;

CNS in 2A

Old Polio

Par. Score = 0.5

Old lesions in spinal
cord + medulla with
root changes and
very heavy p.v.i.

Many neurons
well preserved.

Virus



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/10 - sl. possible paralysis of lowers. - Clumsy
with lower & occasionally drops both feet

8/11 - Partial paralysis, right lower

8/12 - Same

8/13 - Same

8/14 - No progression

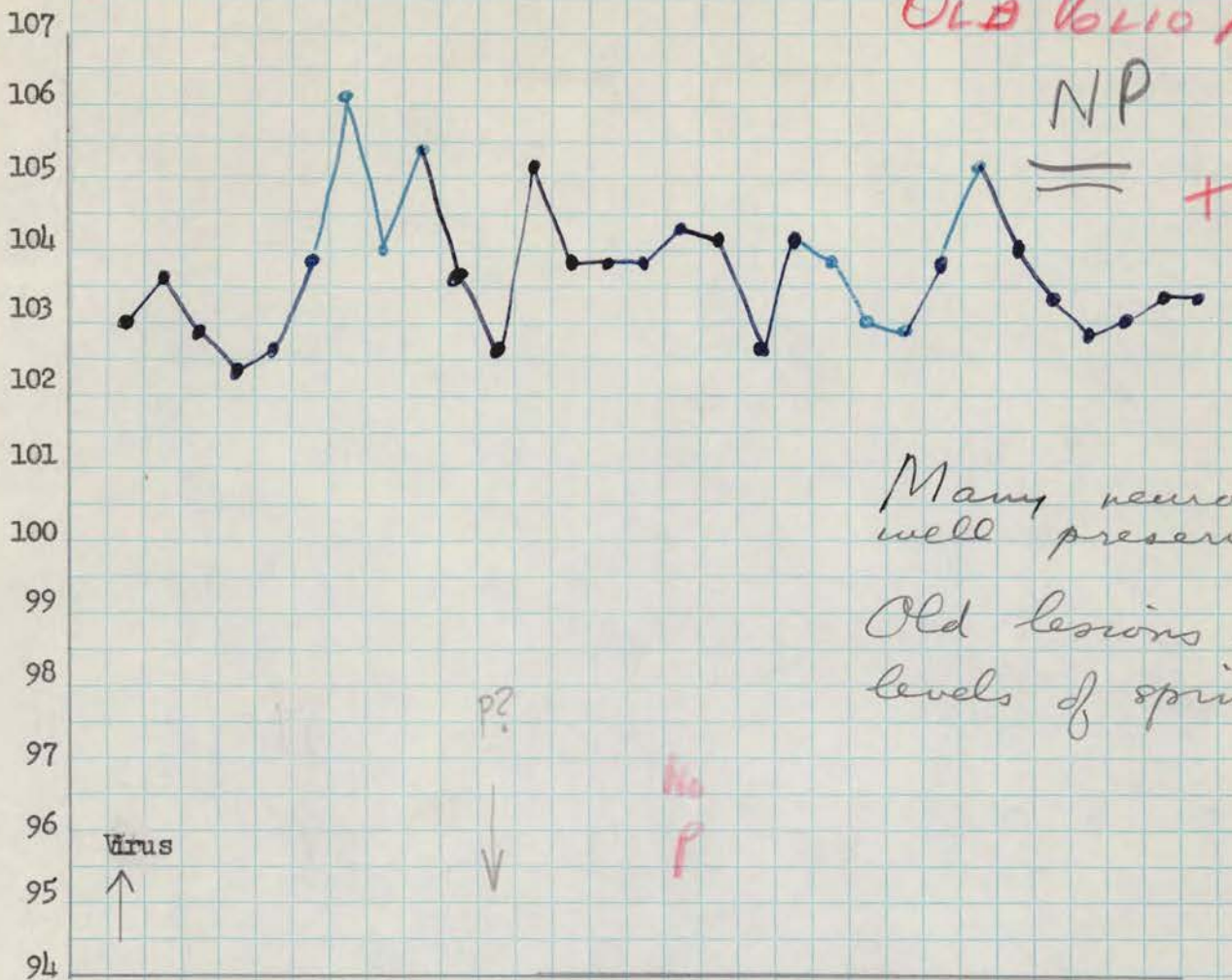
8/16 - Paralysis not so pronounced as before - occasionally
drops right foot

8/22 - Clumsy + runs; Paraly is not readily noticed except
in clumsiness of feet.

8/24 - Sacrificed

CNS in 2A

OLD POLIO LESIONS



Many neurones well preserved.

Old lesions at all levels of spinal cord.

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/2 - still OK

8/5 - AM - ?? Paralysis of muscles of left hand.

8/6 - climbs well - clumsy with left upper. Can not make out if definite paralysis

8/7 - same

8/8 - C lumps, no Paralysis

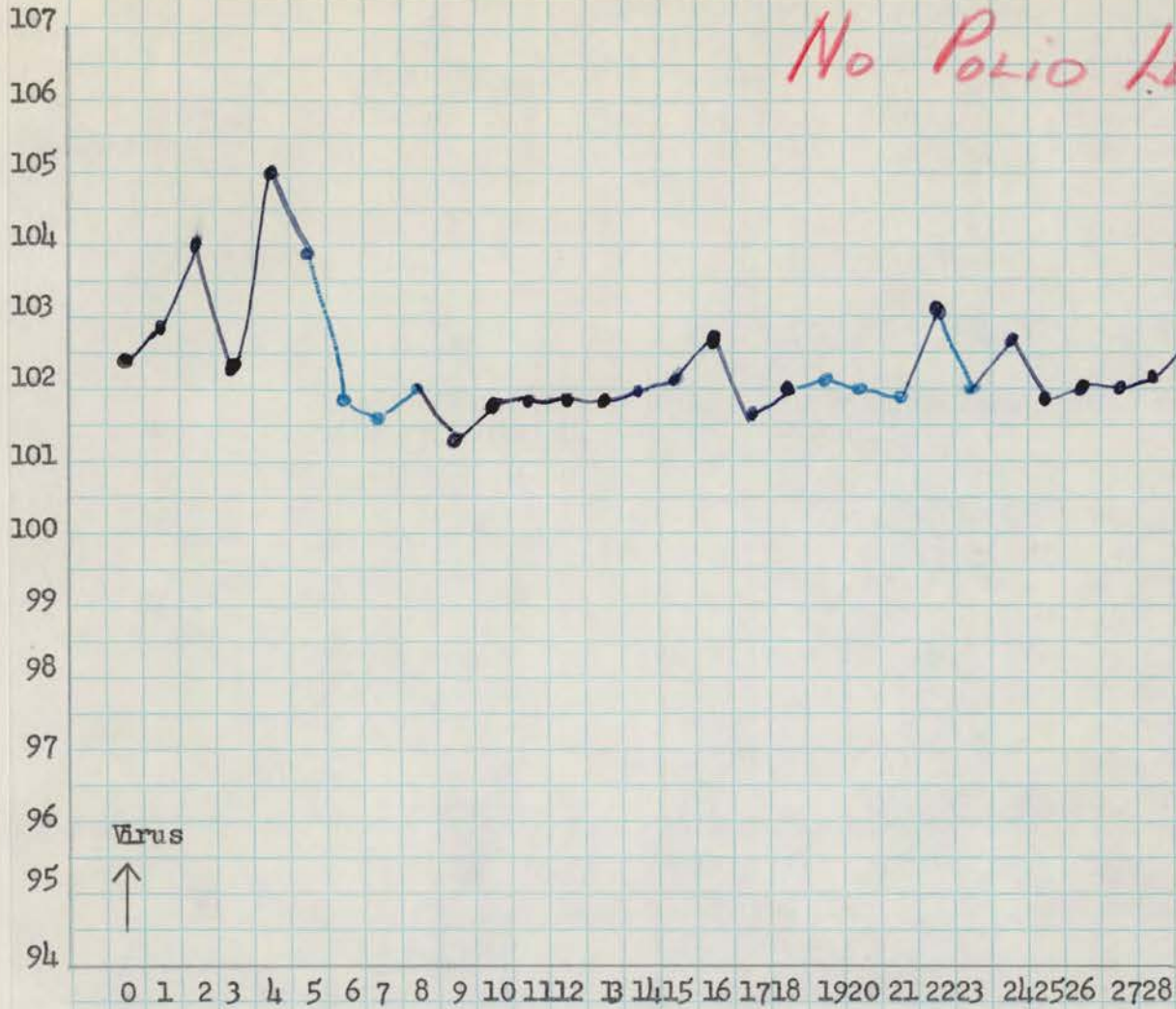
ABS - some C lumps in lower; no Paralysis

8/10 - Runs and climbs well - no paralysis

8/24 - 5 sacrificed

CNS in 2A

No POLIO LESIONS



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/2 - still OK

8/13 - Can not bend left forefinger. - stiff terminal joint - no inflammation - no paralysis

8/22 - appears well

8/24 - Sacrificed

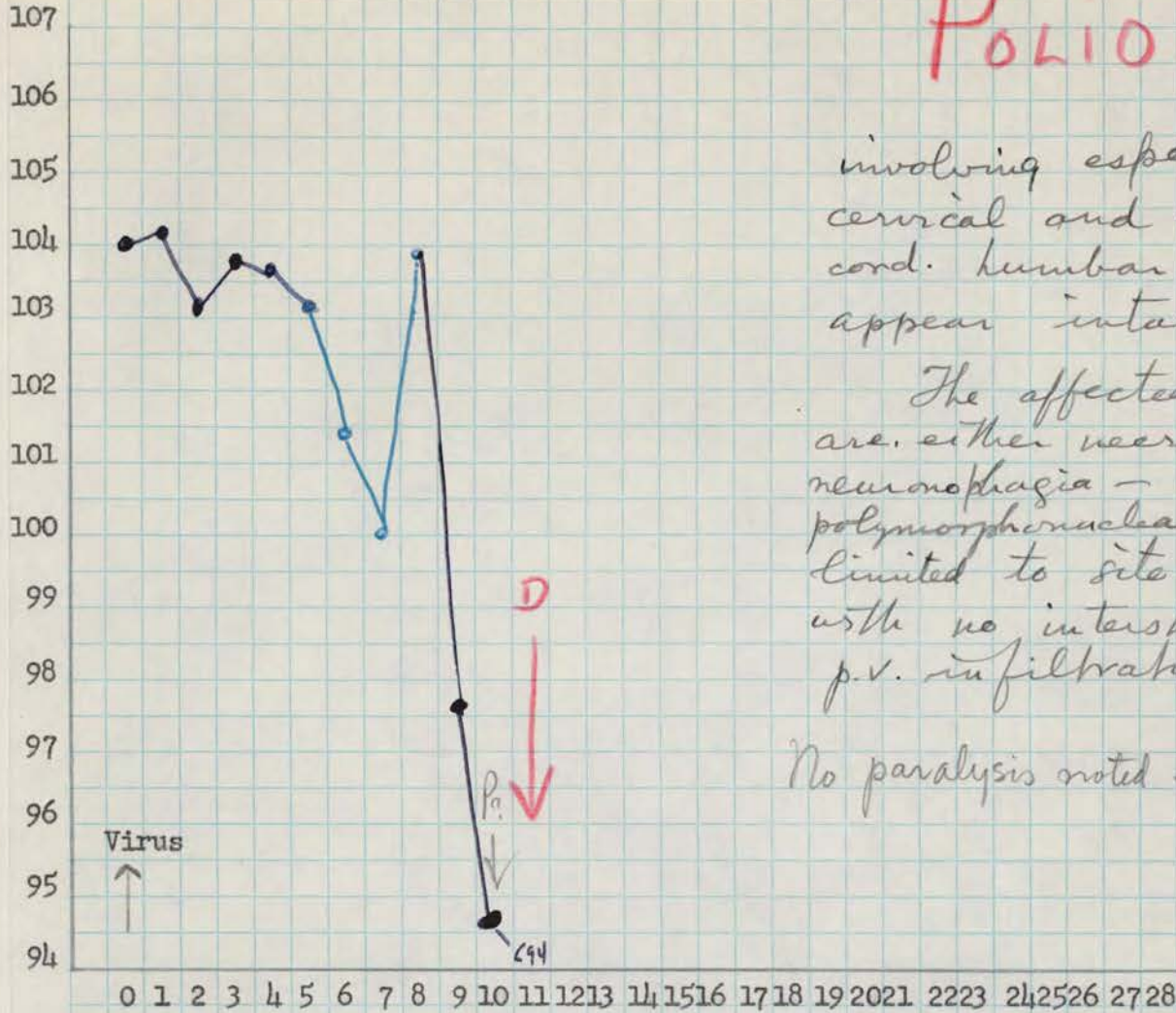
CNS in 2A

POLIO

involving especially cervical and thoracic cord. lumbar cord neurons appear intact.

The affected neurons are either necrotic without neuronophagia - others show polymorphonuclear neuronophagia limited to site of neuron with no interstitial or p.v. infiltration

No paralysis noted - Weak



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone

↑↑↑↑↑↑↑↑↑↑↑↑↑↑

- 8/2 - Very thin - grey
- 8/3 - Remains thin - blood in stools
- 8/4 - Bloody diarrhoea - thin - listless
- 8/5 - Sit up, hunched, grey, drinks Cortisone; weak.
- 8/6 - 2:30 FOUND DEAD

Low mediant necropsy
Walls of gut red + inflamed; reddish brown liquid in colon. Other viscera OK.

CNS - 2A.

107
106
105
104
103
102
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100
99
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94

Old Polio

Extensive destruction

Mild to moderate inflammation
reaction +

Virus
↑

P
↓

Par. Score = 10

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

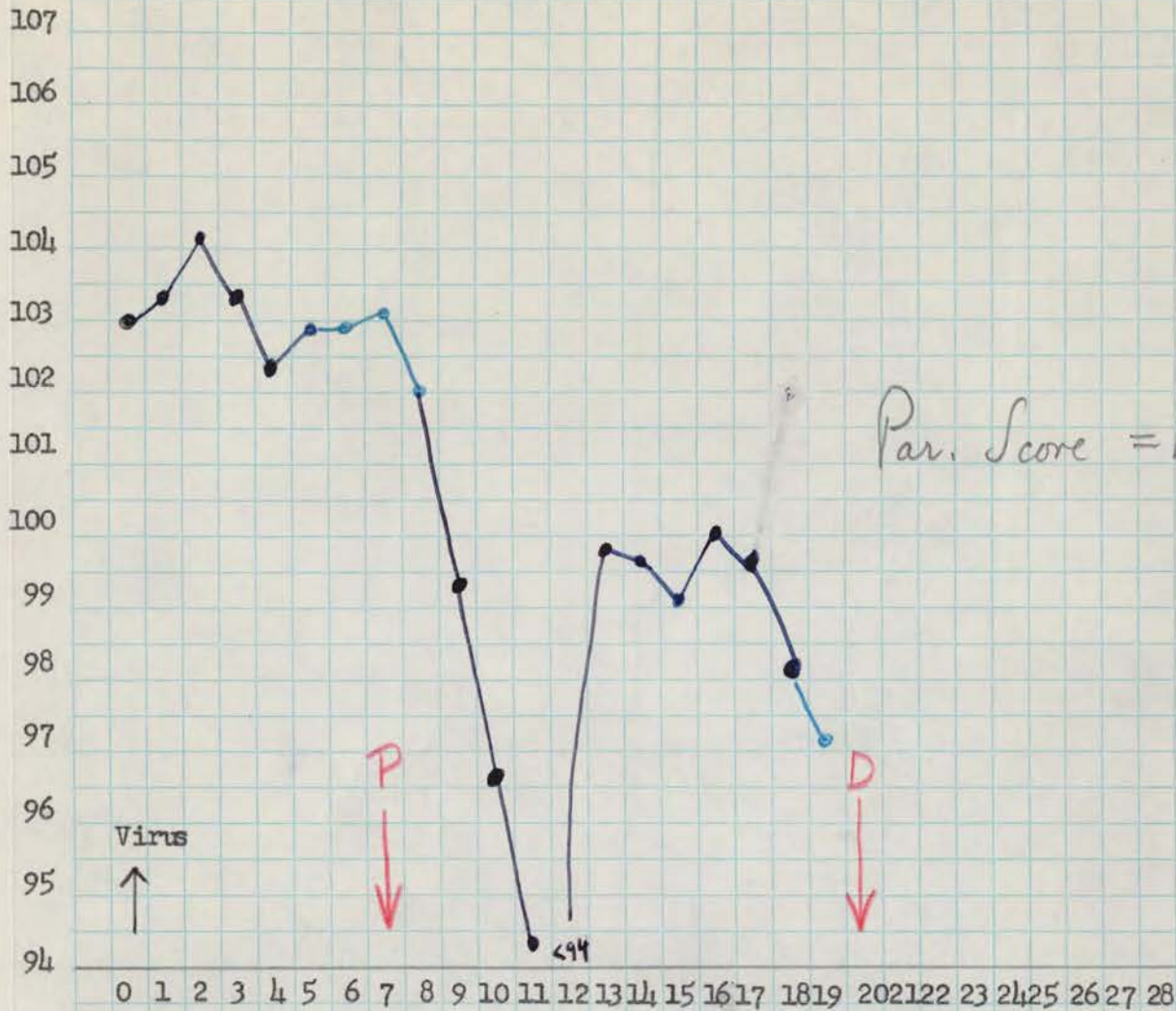
Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑

- 8/3 - appears OK
- 8/5 - Partial Paraly in of uppers + lowers ; can sit up.
- 8/6 - Partial paralysis of uppers, lowers and back
Can not sit up
- 8/7 - Extensive paralysis of extremities + back - prostrate
- 8/8 - Same
- 8/13 - Complete paralysis of extremities and back
- 8/16 - Extensive but incomplete of lowers + back
- 8/14 - Extensive but incomplete of extremities + back
- 8/22 - Prostrate; slight use of extremities + back
- 8/27 - Sacrificed - CNS in 2A

Rh 2236

Virus, 0.5 cc 1:100

Cortisone



Par. Score = 10

July 25 26 27 28 29 30 31/1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

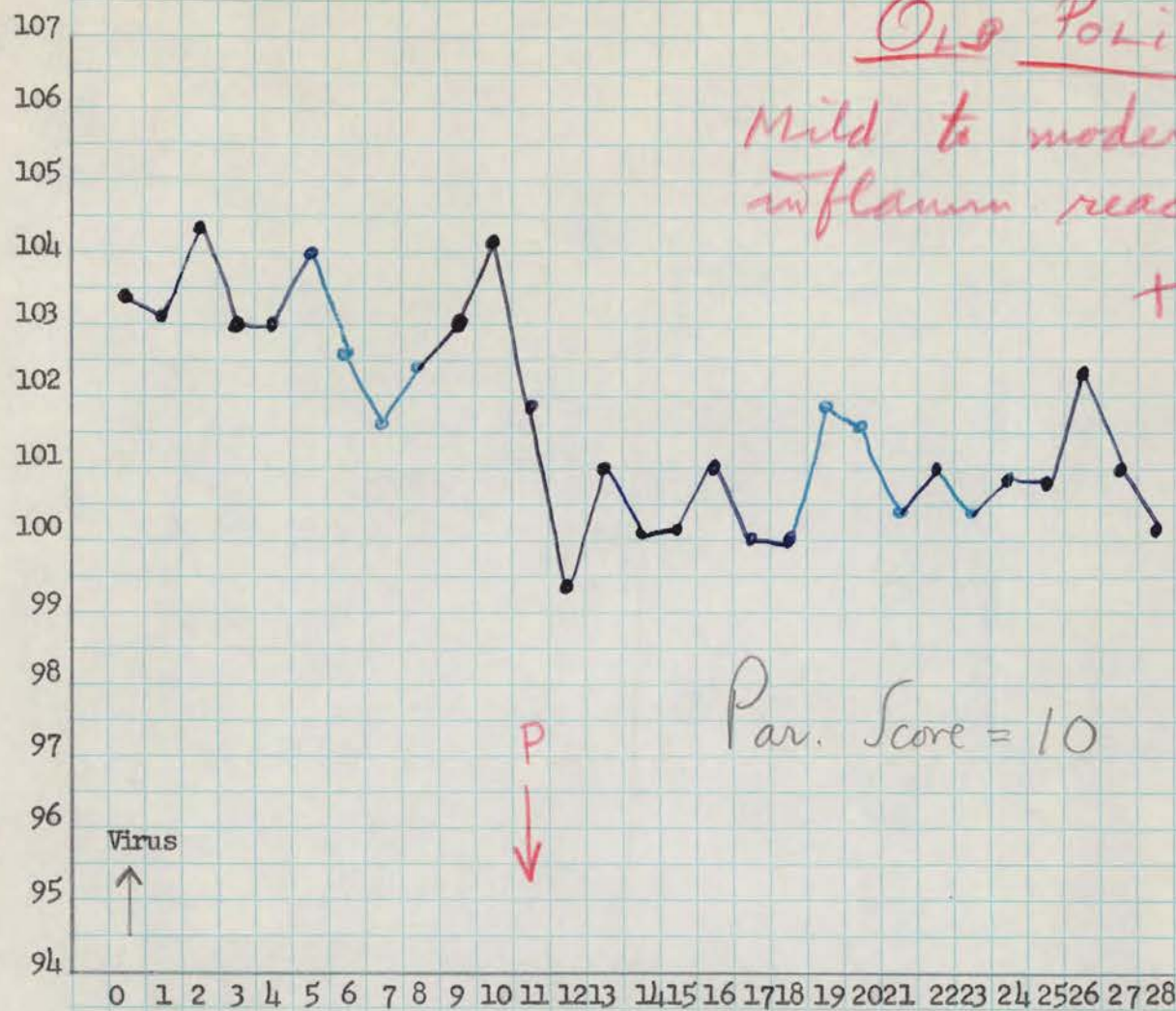
Cortisone ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

July 26 - Loose stool noted at time of inoculation

- 8/2 - Partial paralysis of left upper - Excited
Severe tremor - Palombator
- 8/3 - Partial of both uppers - weak lowers sits up
- 8/4 - Extensive paralysis of uppers - Partial of back
and lower ~~prostrate~~
- 8/5 - Almost complete Paralysis of upper limbs + back; prostrate.
- 8/8 - Same
- 8/10 - Complete paralysis of extremities + back
- 8/20 - ~~prostrate~~ Dead

Old Polio

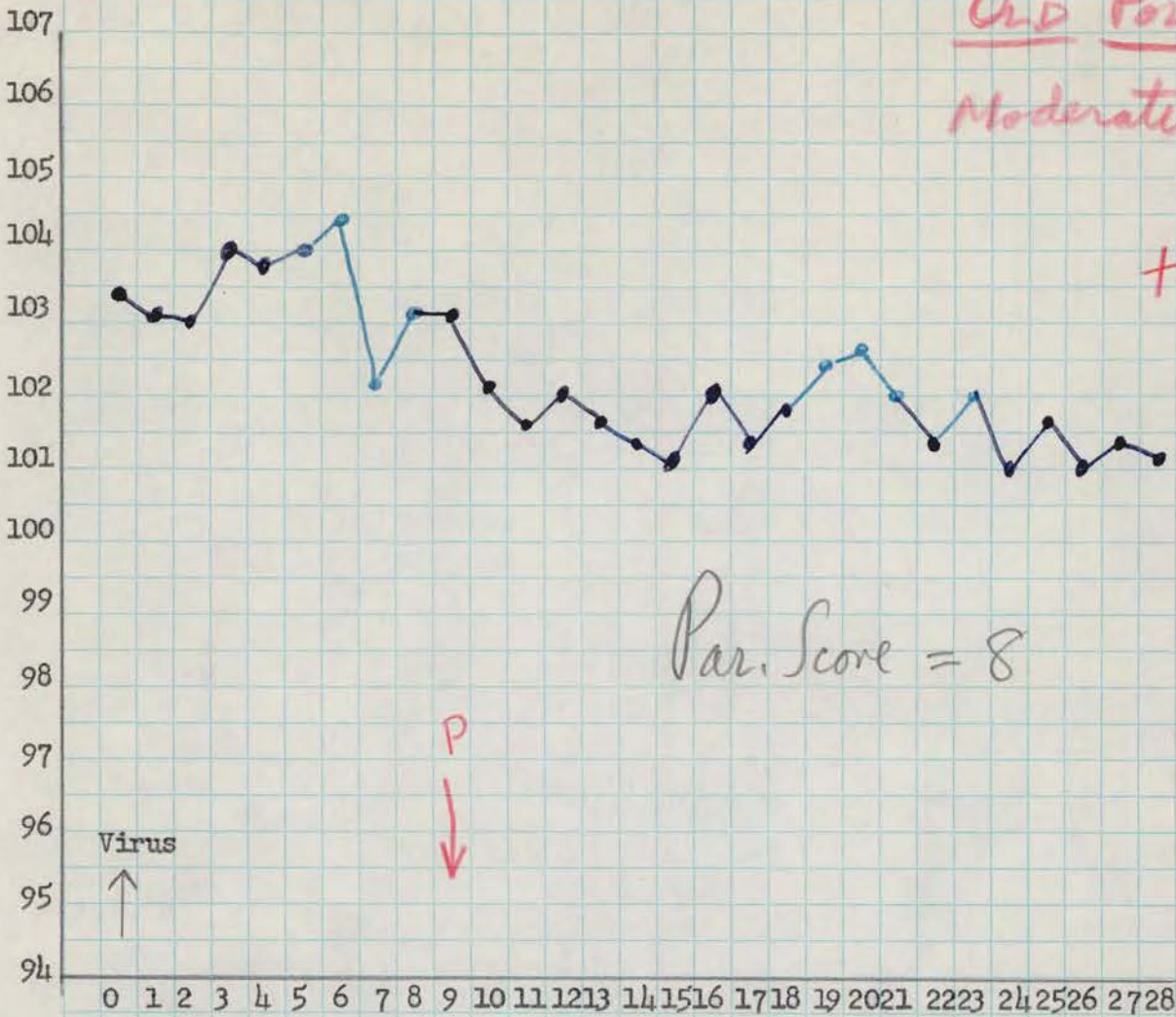
Mild to moderate
inflammation reaction



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑

- 8/2 - Pilonator
- 8/5 - Very sore throat; excited, Pilonator; no Paralysis
- 8/6 - Partial paralysis of upper and lower. Sub work difficulty
- 8/7 - Almost complete paralysis of extremities & back
Prostrate
- 8/8 - Same
- 8/13 - Complete paralysis of extremities and back
- 8/22 - Prostrate; complete paralysis of extremities & back; atrophy of muscles & Contracture of hands
- 8/23 - Sacrificed - CNS in 2A.



Old Porio
Moderate inflammatory reaction

Par. Score = 8

Virus



P



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/2 - Diarrhea - otherwise o.k

8/4 - Partial paralysis of left foot - climbs

8/5 - marked paralysis of both limbs; sits up.

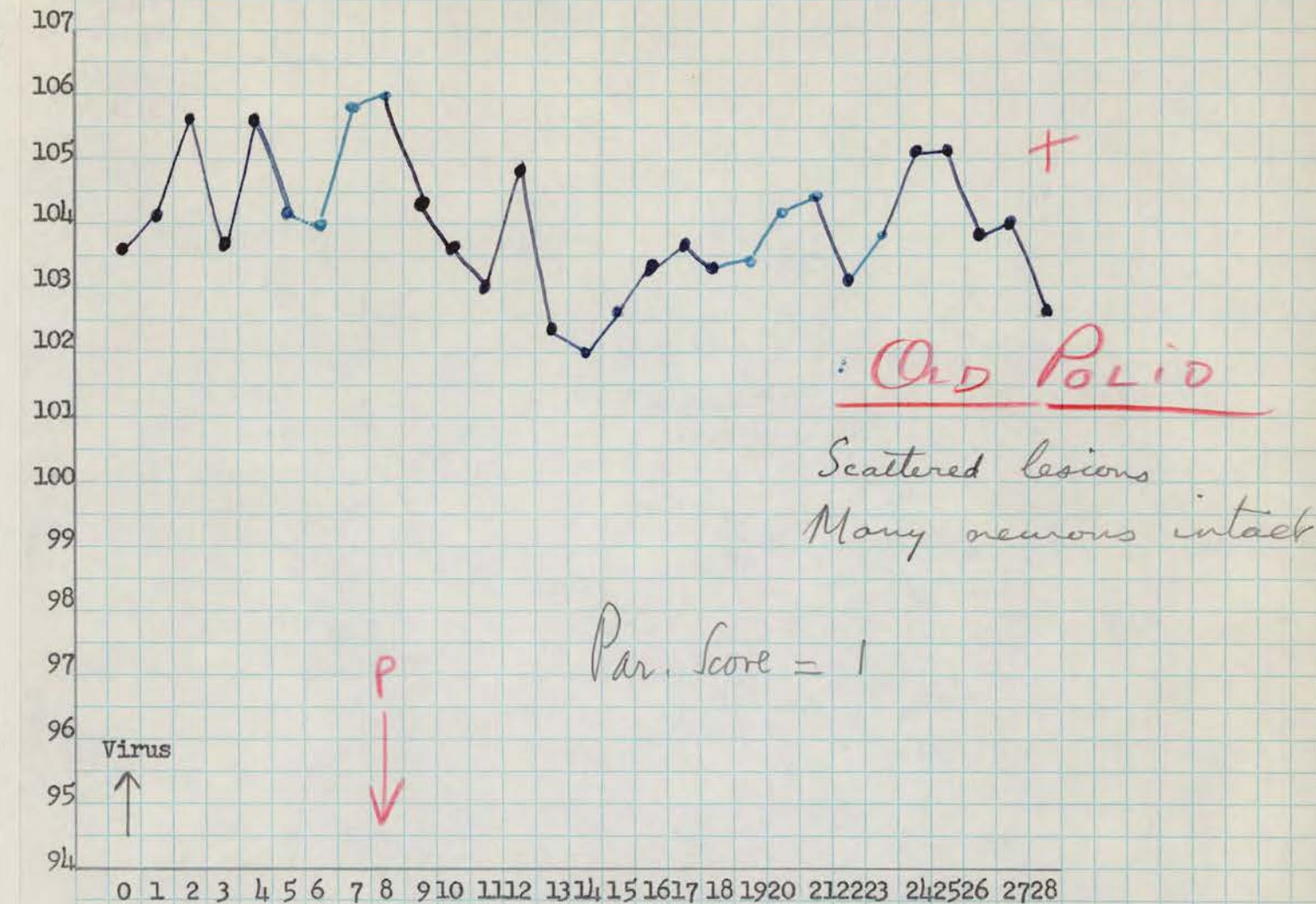
8/6 - Same
8/7 - Extensive paralysis of lowers - Partial of back and uppers; Sits up.

8/8 - Extensive paralysis of lowers; Partial of uppers + back; Prostrates.

8/13 - complete of lowers - Extensive of back - Partial of uppers.

8/21 - Partial of extremities + back - Sits with difficulty.

8/22 - Complete of lowers with atrophy of muscles; Partial of uppers; Pushes himself to sitting position - uppers



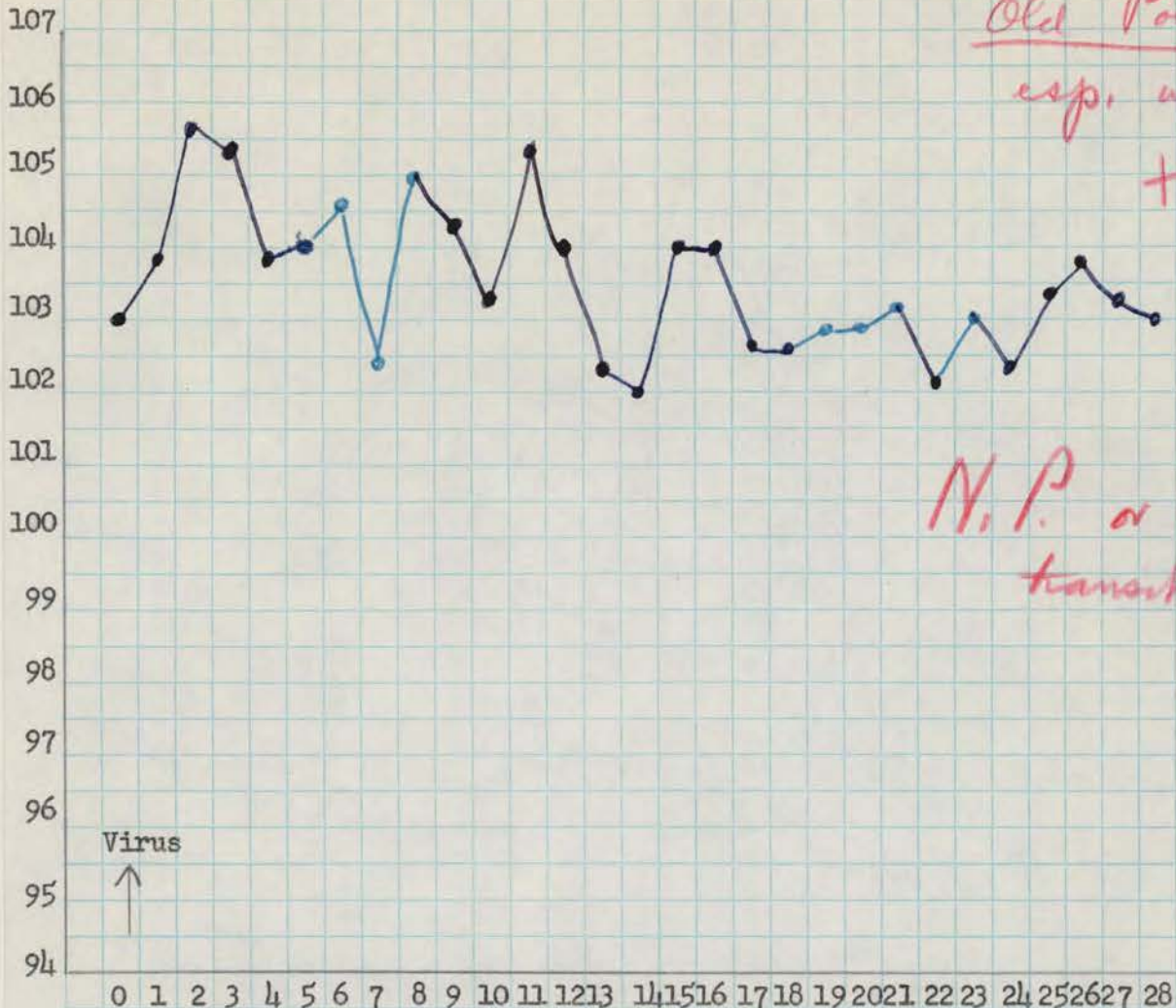
July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

- 8/3 - Partial paralysis of hip muscles - will not climb
- 8/4 - Climbs and runs. Clumsy with lowers but partial paralysis not evident
- 8/5 - Partial Paraly of hip muscles. uses upper well
- 8/6 - Partial paralysis of lowers - Assumes frog position
Sits up
- 8/7 - Same - Except marked paralysis of lowers
Partial of back - Can sit
- 8/8 - Same
- 8/13 - Same
- 8/16 - Same
- 8/18 - Marked improvement - par. hardly noticeable
- 8/22 - @ limbs; Partial Paraly of hip + thigh muscles still evident.
- 8/23 - Sacrificed - CNS in 2A

Old Polio Lesions
esp. upper lumbar

+

N.P. or very mild
transitory par.



July 25 26 27 28 29 30 31/1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

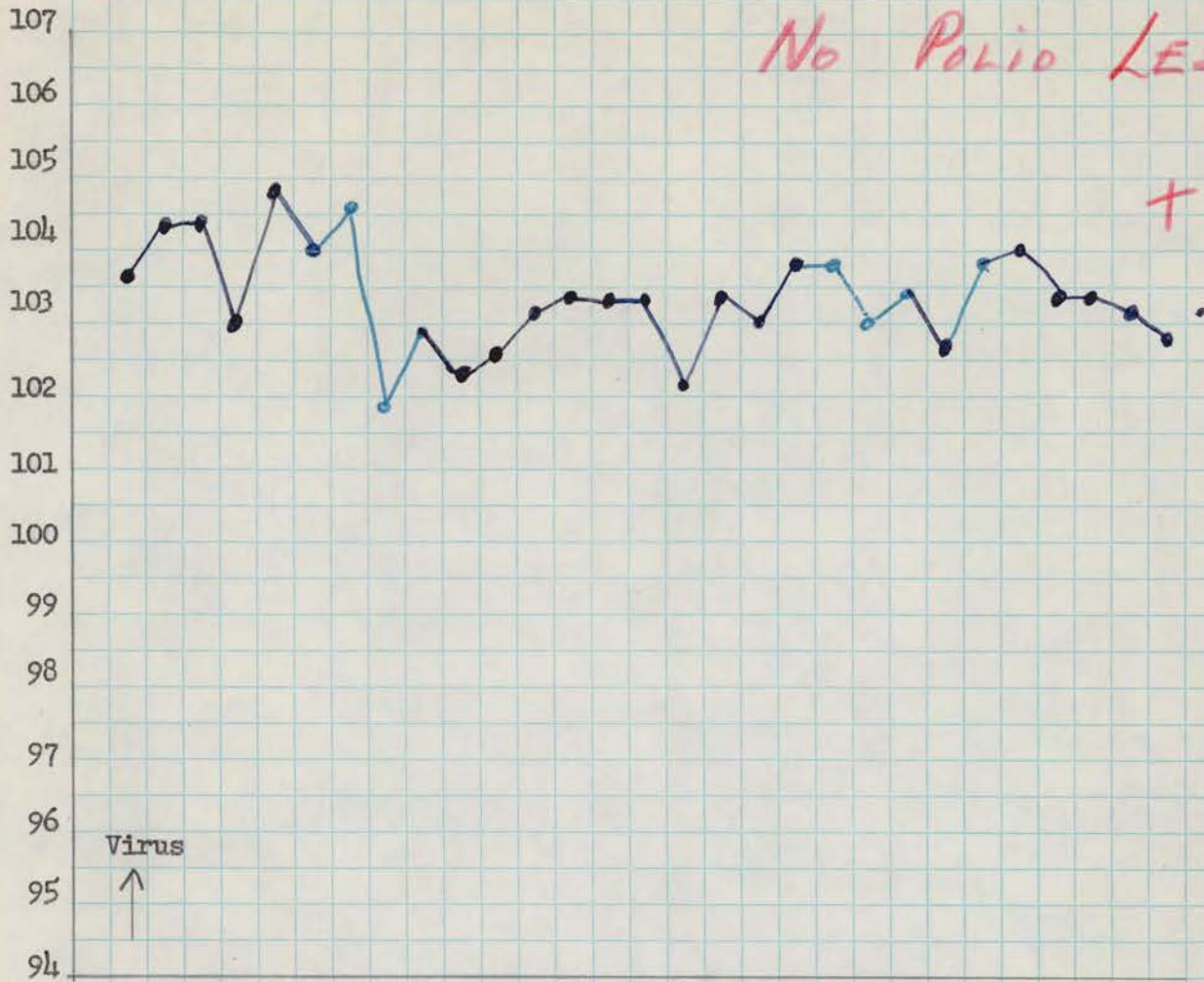
- 8/7 - Pilo motor - slight suggestion of weakness in ~~lower~~ - no paralysis
- 8/8 - ? Partial Paralysis of left limb; weak st. limb
AB - Hop, Climb, Climb left limb; occasional day foot.
- 8/9 - Same
- 8/10 - Same, if Paralysis is present, it is extremely minimal.
- 8/11 - Runs and climbs well - no obvious paralysis
- 8/13 - Pilo motor
- 8/22 - Still has Pilo motor, otherwise ok
- 8/23 - Sacrificed

Rh 2241

Virus, 0.5 cc 1:1000

Control

No Polio Lesions



Virus



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/2 - Ejected ?

8/23 - Sacrificed

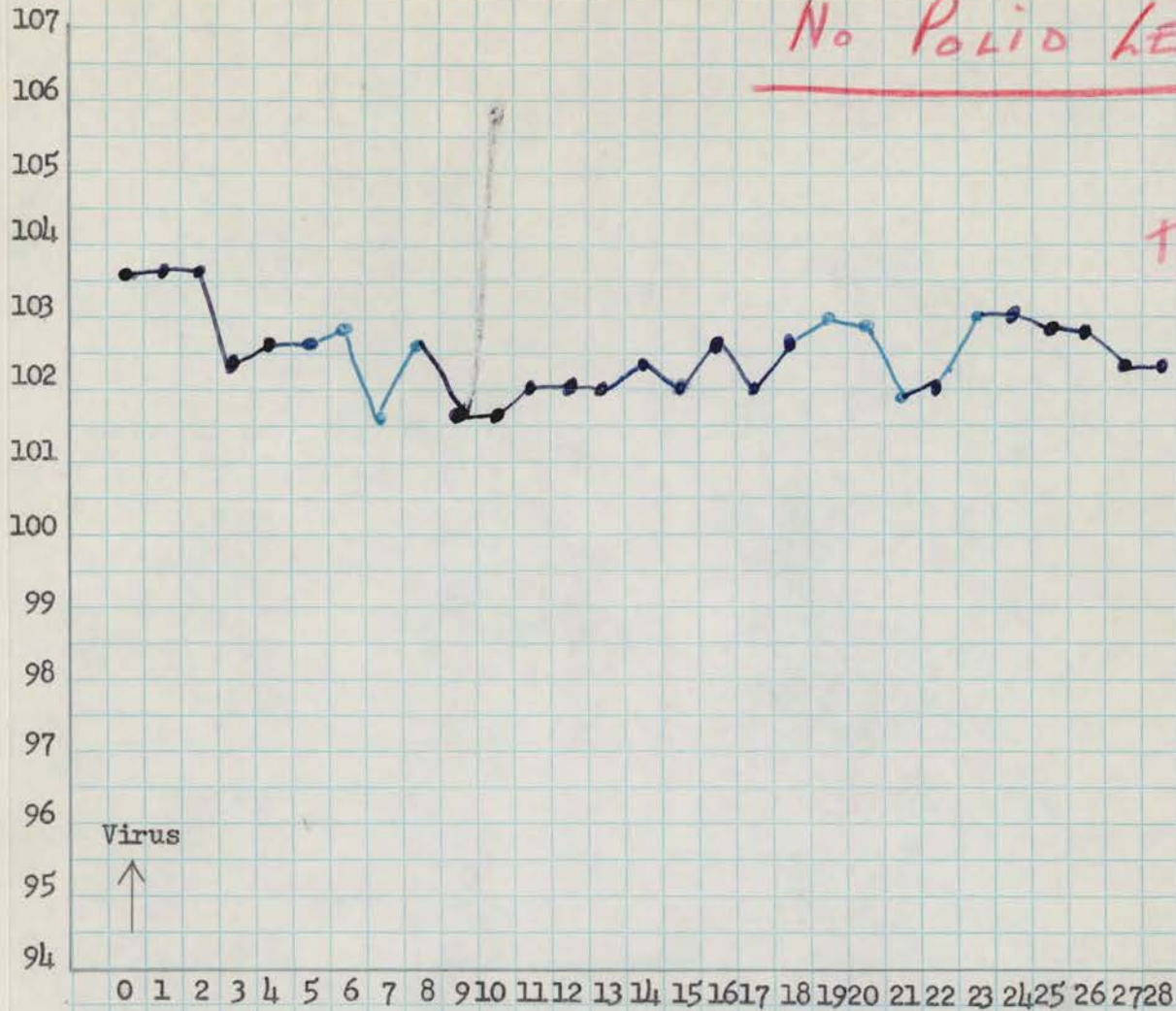
CNS in 2A

Rh 2242

Virus, 0.5 cc 1:1000

Control

No POLIO LESIONS

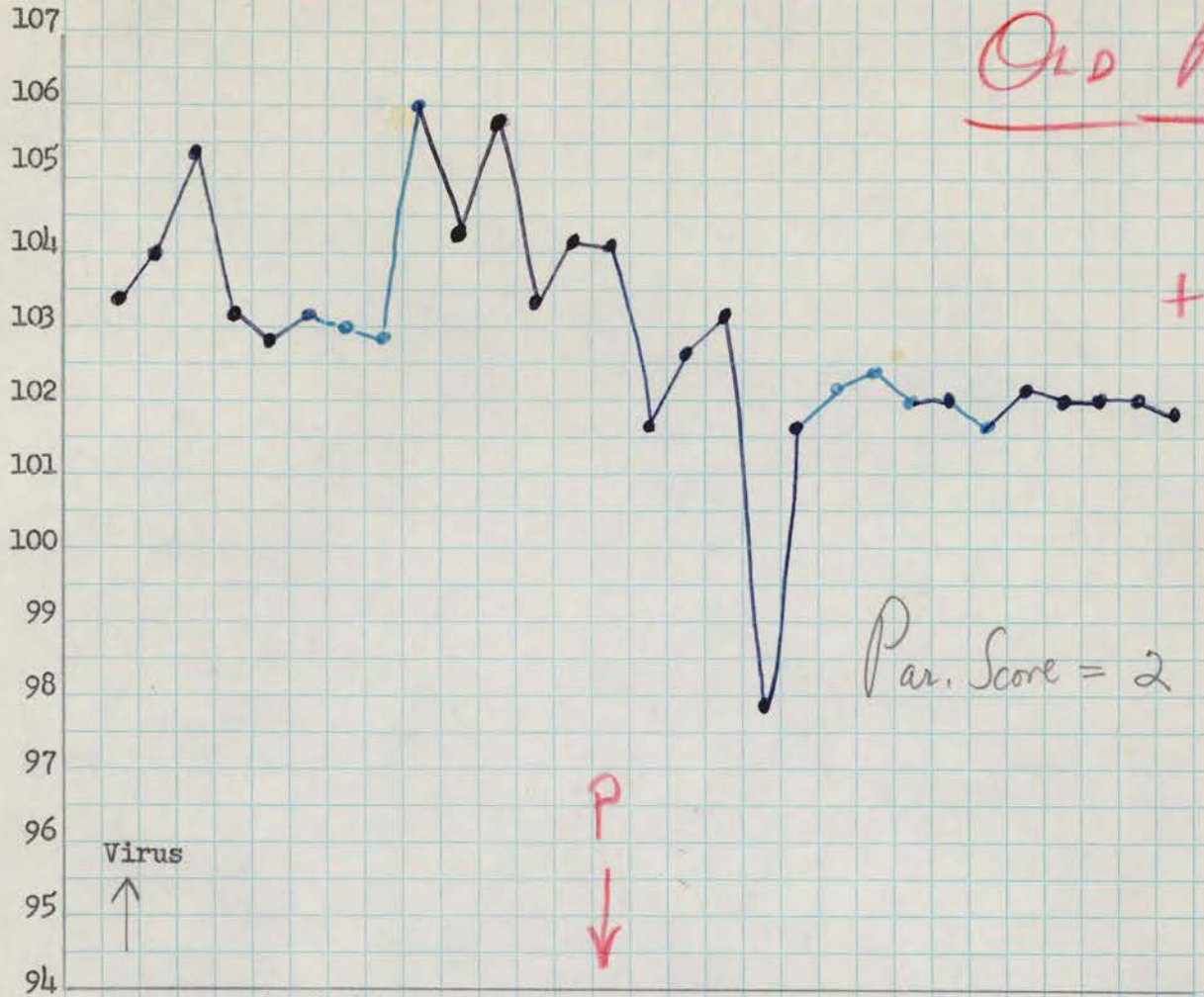


July 25 26 27 28 29 30 31/1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

8/23 - Sacrificed

CNS in 2A

Old Polio



Par. Score = 2

Virus



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

7/3 - Partial Paralysis of upper & lower; sits up.

8/9 - marked partial of extremities - Partial of lock - sits with difficulty.

8/12 - Same

8/13 - Same

8/18 - Sits up well, hops about - marked improvement - par. still present but slight

8/22 - Can not climb, still considerable Partial Paralysis of extremities

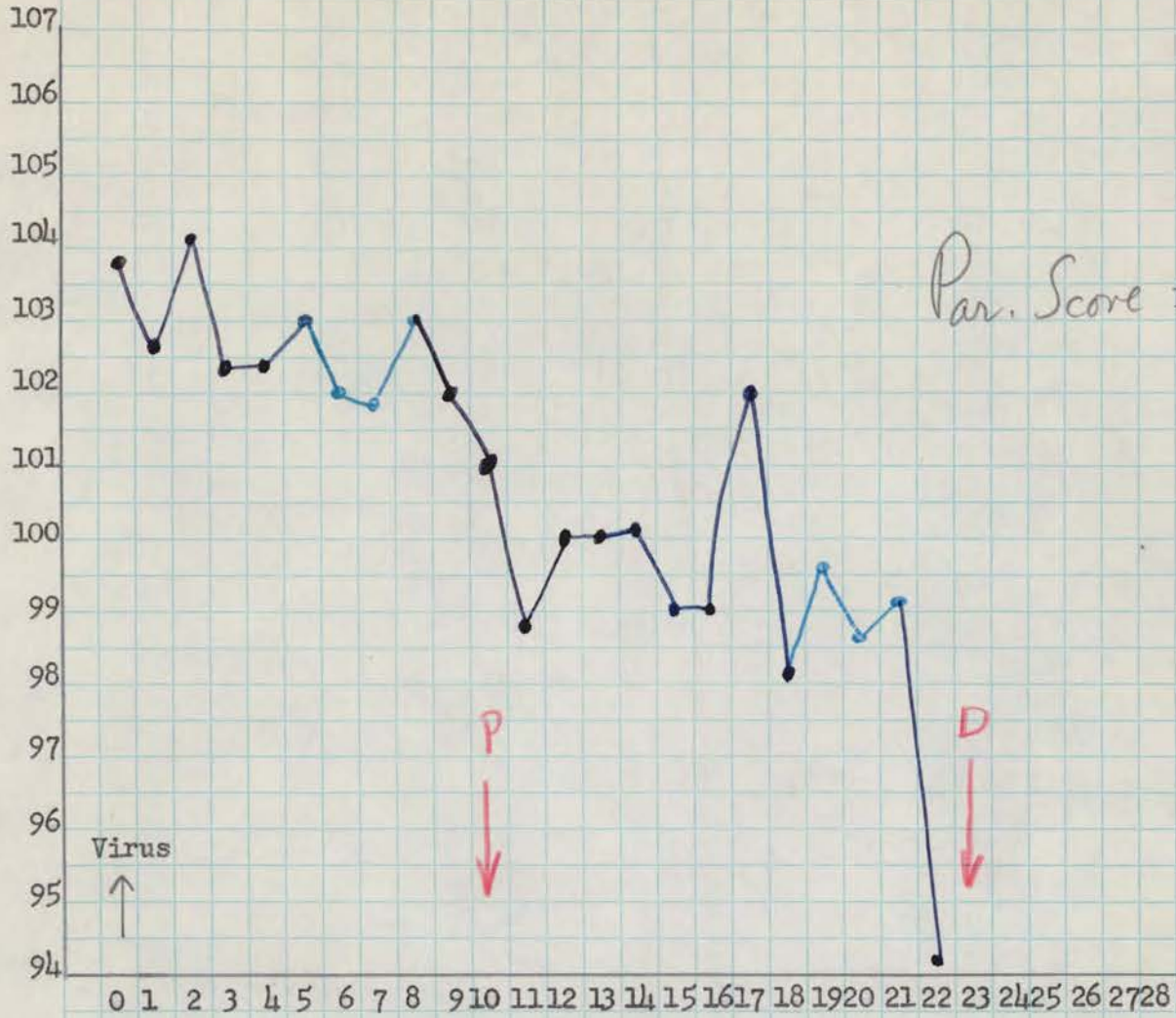
8/23 - Sacrificed

CNS in 2A

Rh 2244

Virus, 0.5 cc 1:1000

Cortisone



Par. Score = 10

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/5 - mumped Partial paralysis of 4 extremities + back; Can not sit up; @ reverts.

8/6 - Extensive paralysis of extremities + back; Prostrate

8/7 - Same

8/8 - almost Complete paralysis of extremities + back; Prostrate

8/10 - Complete paralysis of extremities + back

8/17 - Terminal

8/18 - Dead

Rh 2245

Virus, 0.5 cc 1:1000

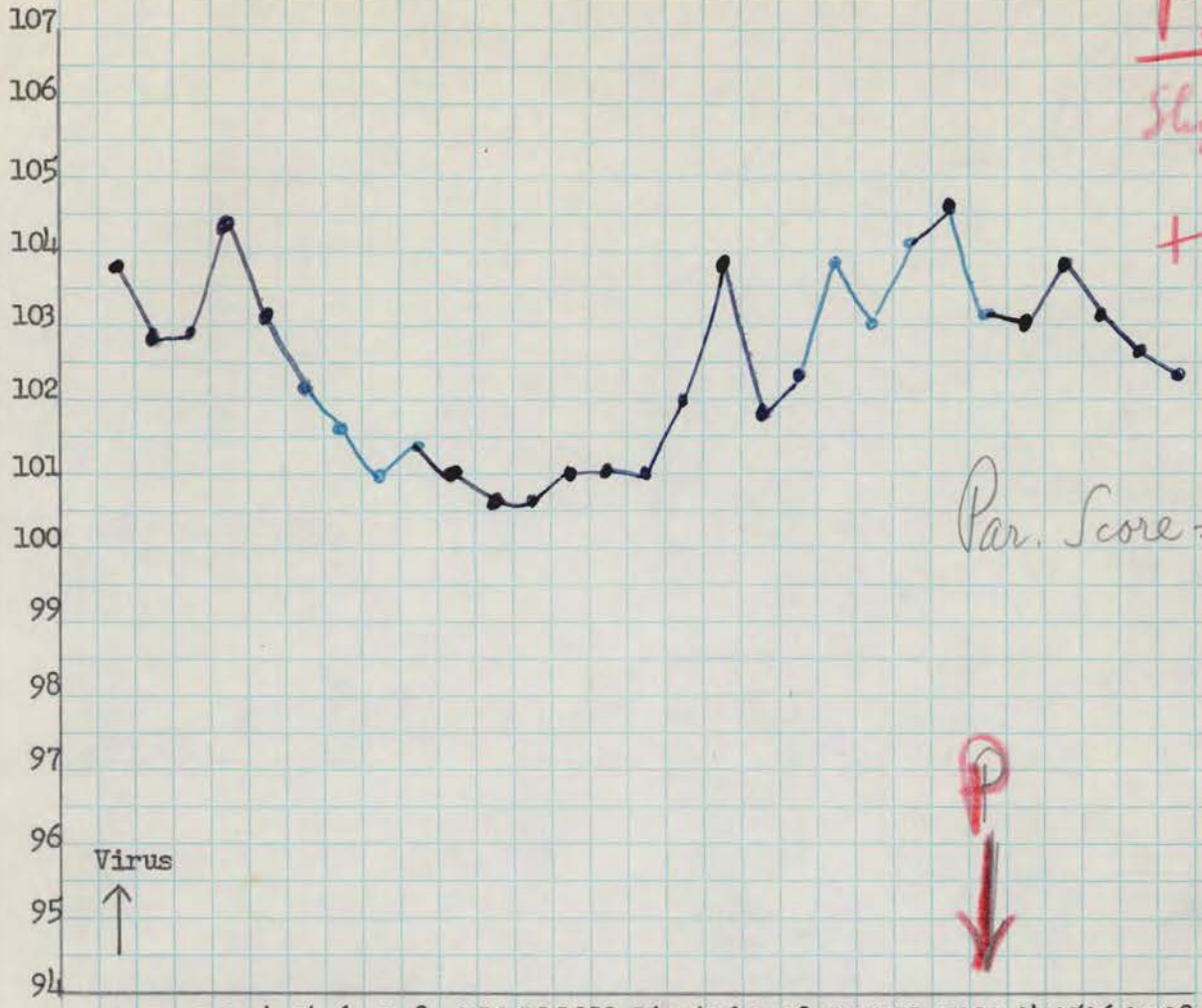
Cortisone

Polio
Slight inflammation

+

Par. Score = 2

P
↓



Virus



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone

↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/2 - Thin - Fur puffed

8/3 - Diarrhea

8/16 - Excited - P motor - questionable tremor

8/18 - Climbs well - St. clumsiness of lowers

A.P. - Uppers not strong - St. possible paralysis of hip muscles

8/19 - Climbs well, Clumsy in lowers; easily pushed over; Probable slight paralysis of hip + in thigh muscle.

8/20 - Partial paralysis of lowers, especially of thigh muscles.

8/22 - Considerable paralysis of lowers, especially of thighs + hips; attempts to climb - uppers

8/23 - Sacrificed - CNS in 2A

Rh 2246

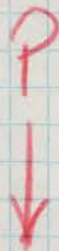
Virus, 0.5 cc 1:1000

Cortisone

107
106
105
104
103
102
101
100
99
98
97
96
95
94

Old Polio
Moderate inflammation

Virus



Par. Score = 3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/10 - Clumsy with lower - no definite paralysis.
Am - Clumsy, Clive, no definite Paralysis

8/11 - Definite partial paralysis of both lower, especially hip muscles + both deltoids

8/13 - Same

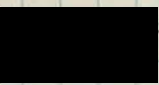
8/14 - No progression

8/22 - H ops about; definite paralysis of thigh + hip muscles; also appears well except that he holds them close to his sides supported by deltoid in volvement.

8/23 - Sacrificed

CNS in 2A

Rh 2247



Virus, 0.5 cc 1:1000

Cortisone

No POLIO LESIONS

107
106
105
104
103
102
101
100
99
98
97
96
95
94

Virus



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone

↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/23 - sacrificed

CNS in 2A

+

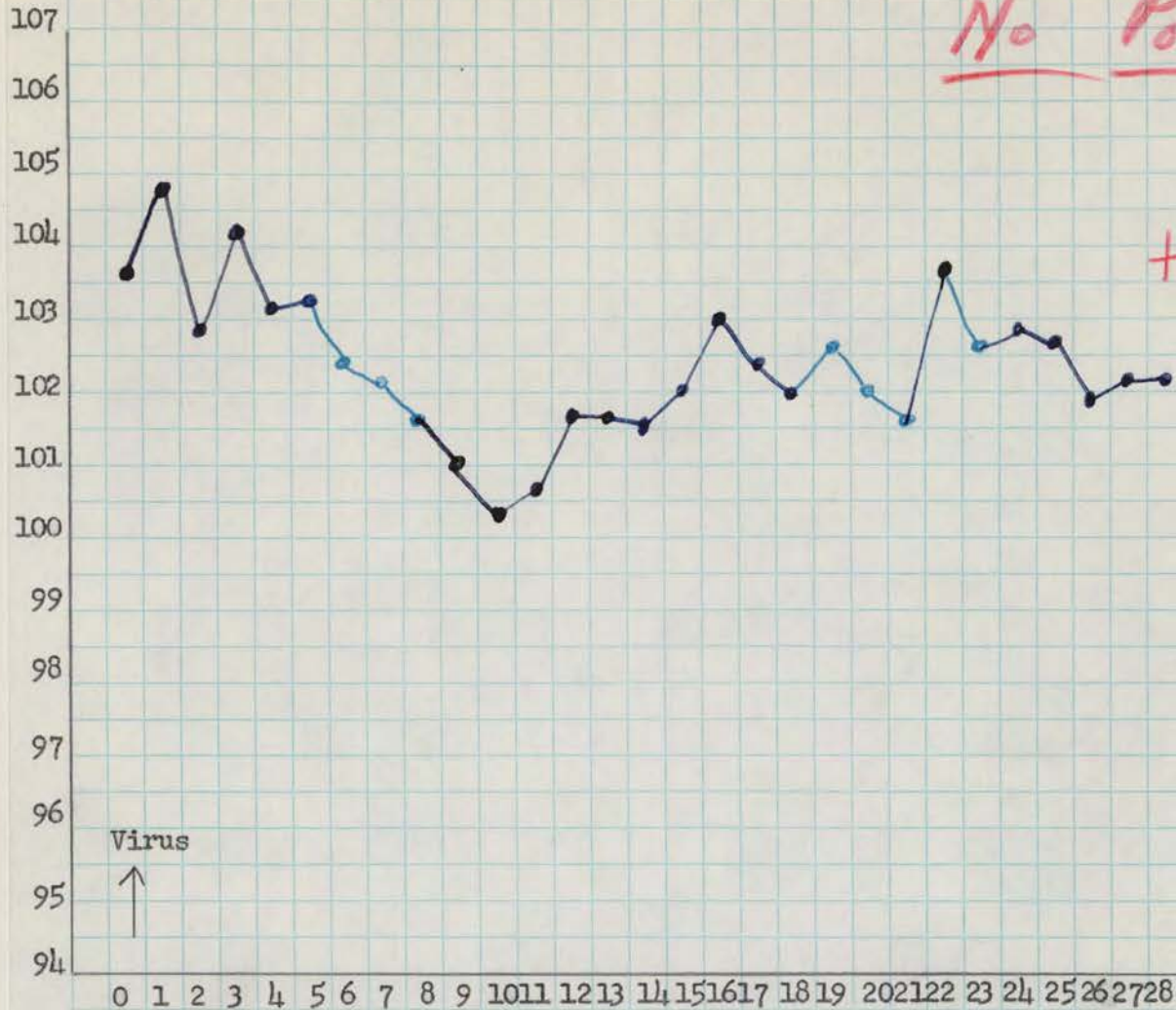


Rh 2248

Virus, 0.5 cc 1:1000

Cortisone

No Polio Lesions



Virus



July 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Cortisone ↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑

8/5 - very thin; no diarrhea
 8/16 - Looks much healthier than before; no longer thin.
 8/23 - sacrificed

CNS in 2A