

For Controls Inoculated

Simultaneously see Polio Chemotherapy  
 Notebook - Exp of 7/15/51 on UM 205

Virus -  $\otimes$  [redacted] Gen II (Vial #2 in B-8-8)

1cc of 1:500 in saline into  
 right thalamic region

$$\begin{array}{r} 4.2 \\ 2.7 \\ \hline 1.5 = 32 \end{array}$$

Control  
 7/15/51

F.P. "NOBEL"®

STANDARD B&P "NOBEL"®

Am. Invent. Patent - 28

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Virus  
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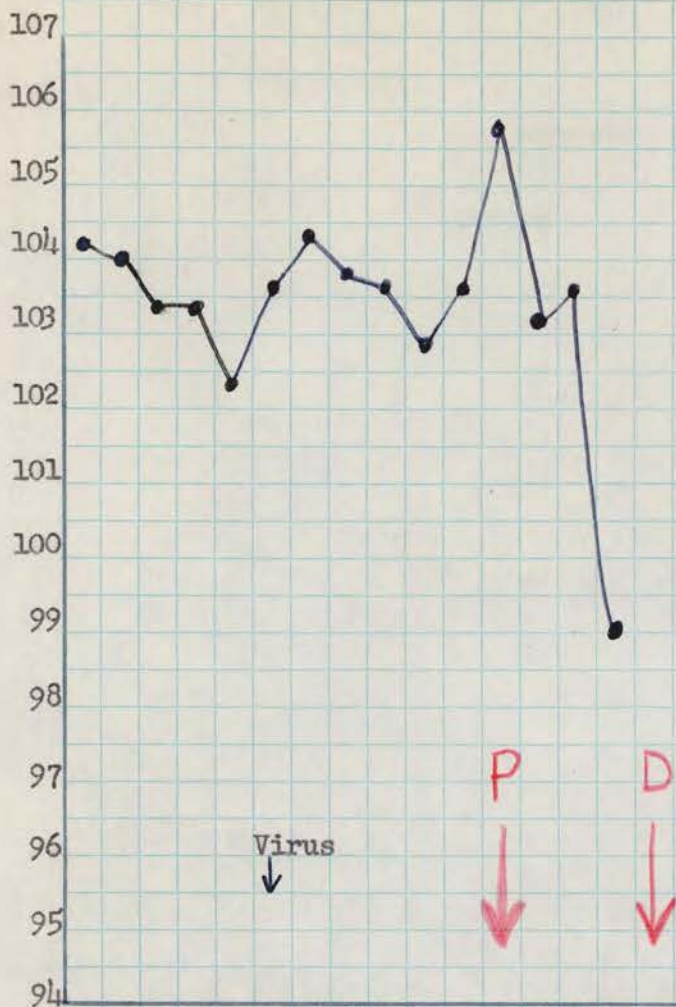
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July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Cortisone

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/28/51 - Partial paralysis of upper; more marked on rt; sits up; uses lower well.
- 7/29/51 - almost complete paralysis of upper; walk lower; sits up.
- 7/30/51 - Prostrate; extends but in complete paralysis of upper arms & back.
- 7/31/51 - Almost complete paralysis of lower & back & left upper - partial of right.
- 8/1 - Adensure of right upper - almost complete of back & other extremities.
- 8/2 - Same.
- 8/3 - No change.
- 8/7 - almost complete paralysis of extremities and back - Prostrate.
- 8/10 - Complete paralysis; alert, prostrate.

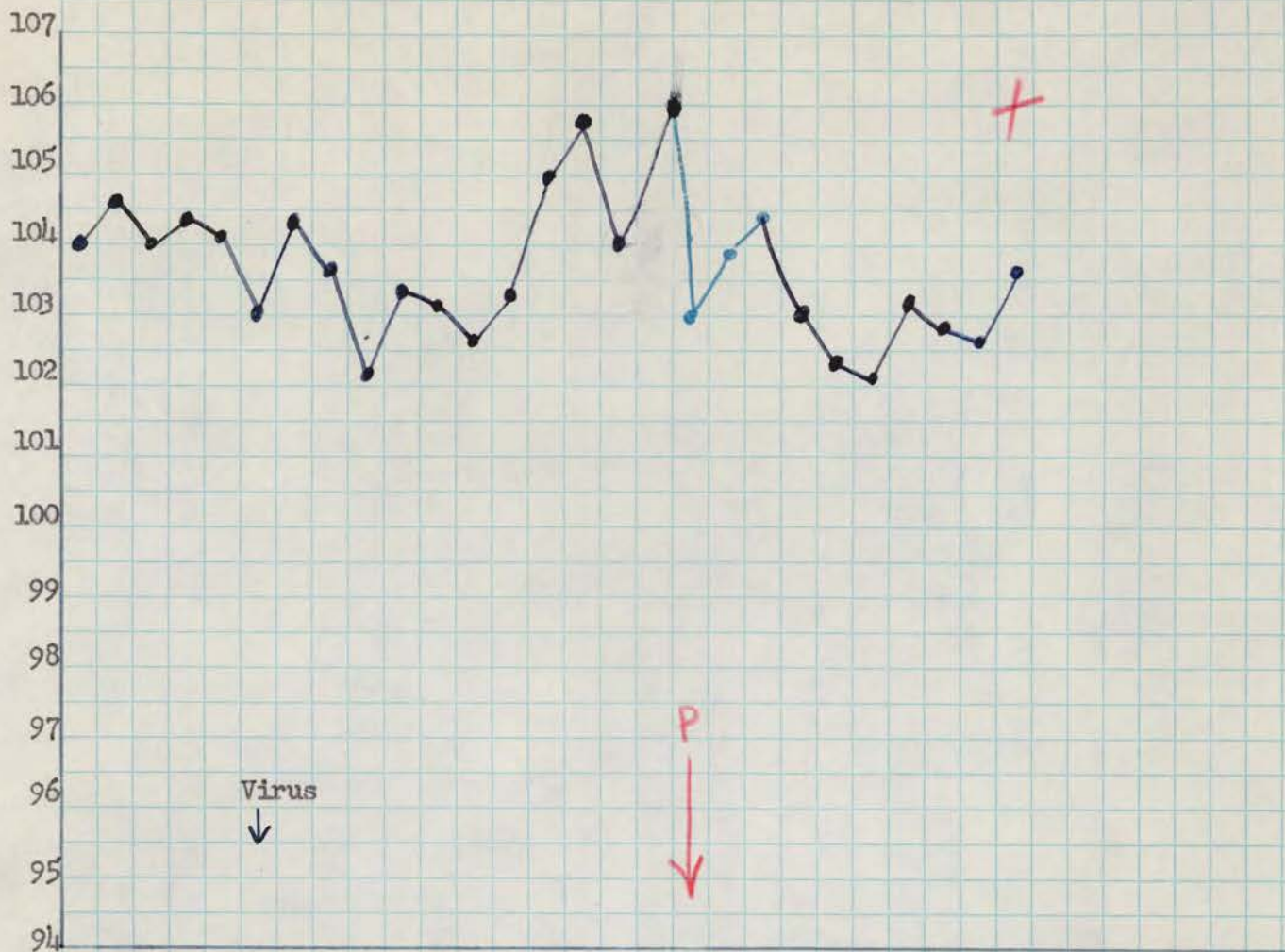


Almost complete destruction of neurones in spinal cord with <sup>little or no</sup> neuronophagia ~~and~~ of local inflammatory reaction

Isolated foci of neuronoph. + infiltration in medulla. Scarce p.v.i. encountered

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 July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31/1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

- ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
  - 7/26/51 - Partial Paralysis of right <sup>upper</sup> ~~limb~~; excited, tremor.
  - 7/27/51 - AM - Prostrated, systemic Paralysis of 4 extremities + back; <sup>absent</sup> ~~absent~~.
  - 7/28/51 - almost Complete Paralysis of 4 extremities + back, aphonia
  - 7/29/51 - Same
  - 7/30/51 - 8:00 AM - Found dead  
 2:00 PM - Necropsy
- CNS - ZA

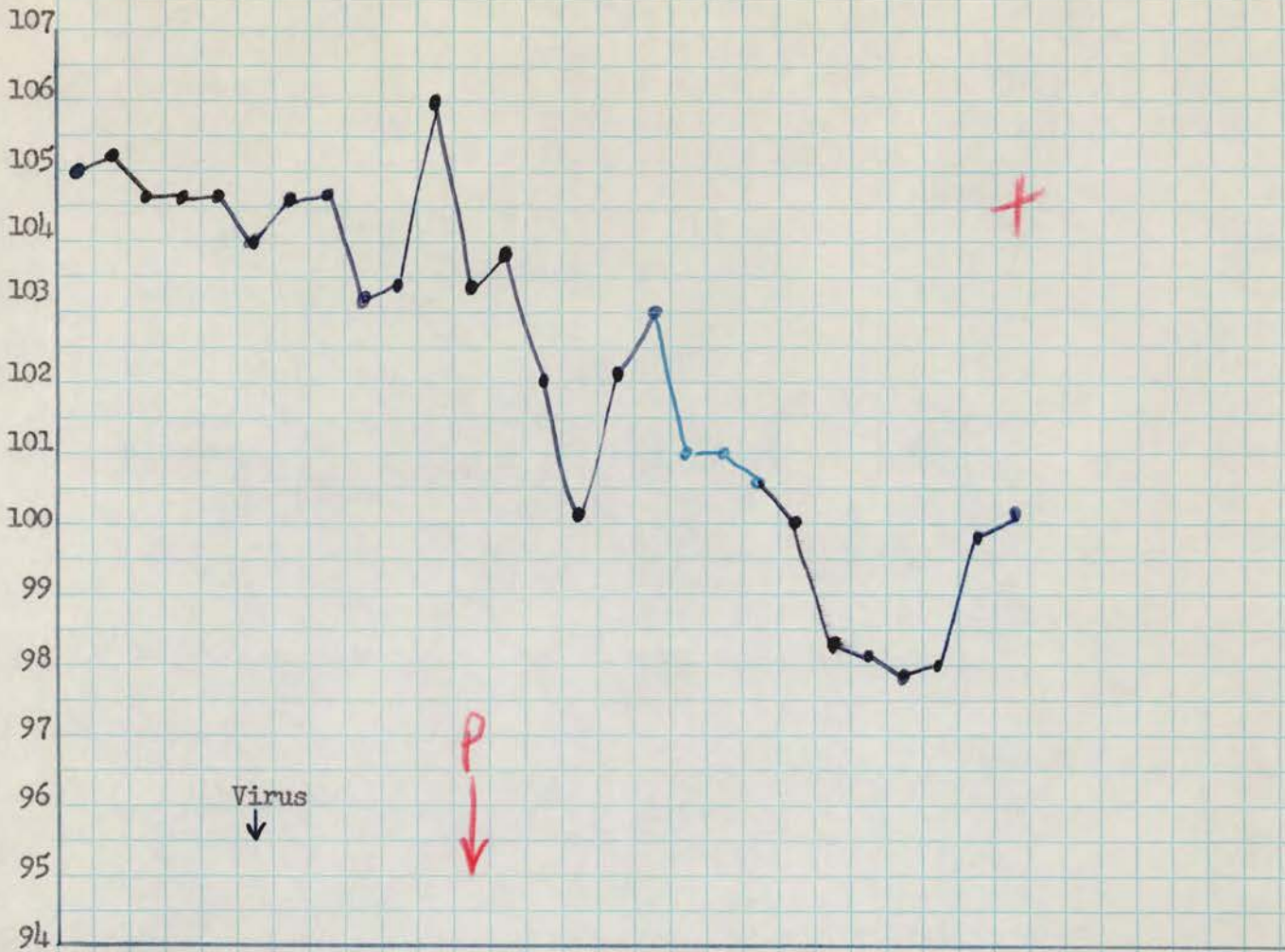


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July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/28/51 - Pilonator
- 7/29/51 - Pilonator
- 7/30/51 - 12:15 Pm - Pilonator; run, climb, no paralysis  
5:00 Pm - Weak lowers; Pilonator; no paralysis yet
- 7/31/51 - Very weak lowers - no definite paralysis
- 8/1 - St. partial paralysis of lowers primarily involving thigh muscles - weak uppers - disinclined to climb - Pilonator
- 8/2 - Partial of lowers - weak uppers - will not climb. Also partial paralysis of deltoids. Sits up
- 8/3 - no change
- 8/6 - Partial of lowers - sits up
- 8/7 - same
- 8/10 - same; sacrificed



Virus  
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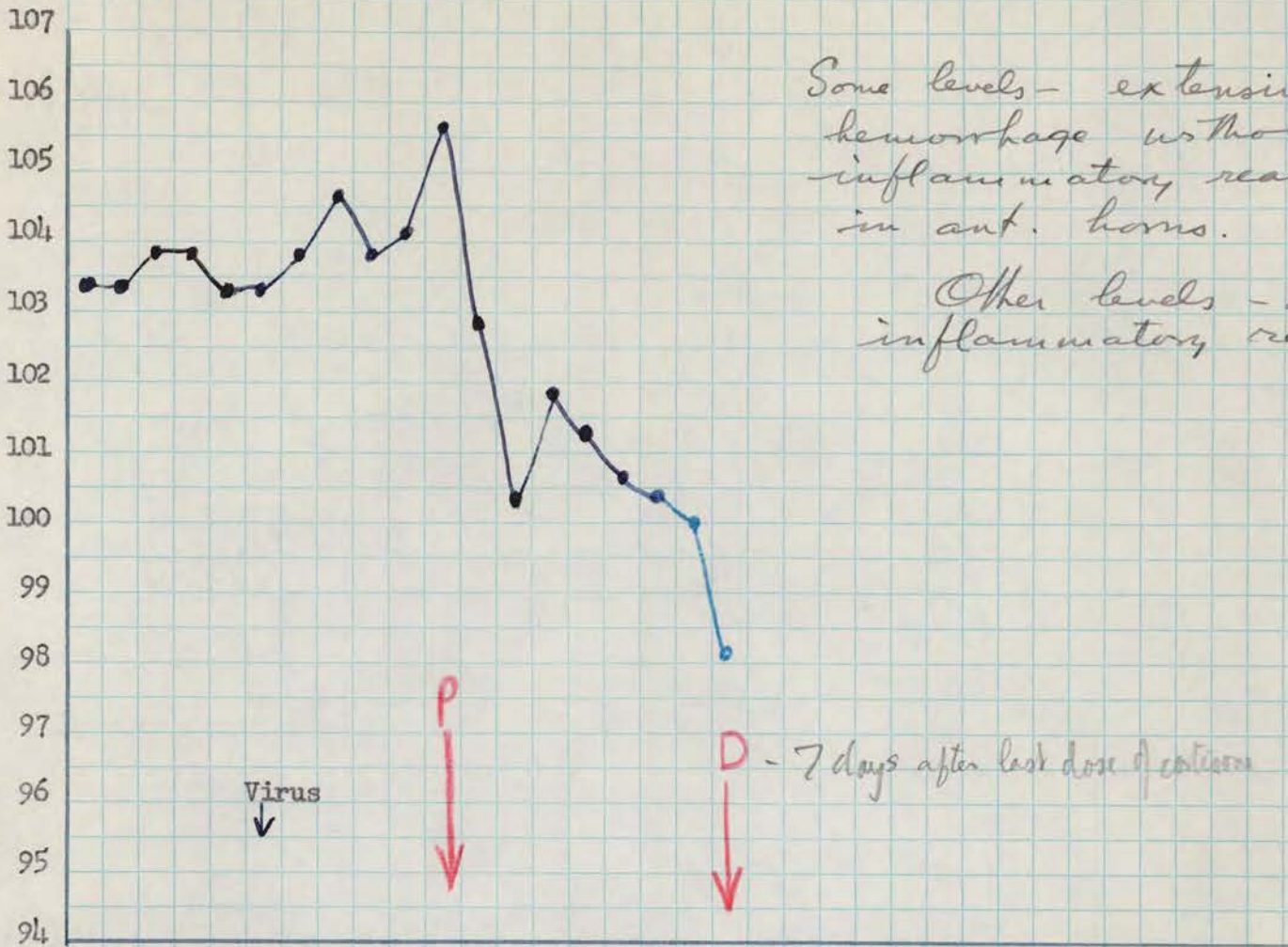
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↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/25/51 - Pm - no paralysis; appear sick, excited, labored breathing
- 7/26/51 - Partial paralysis of neck + shoulder muscles; head drop; can not climb in arm; head tremor
- 7/27/51 - Am. Partial paralysis of 2/3 extremities; neck, + shoulder muscles; sits up.  
Pm - Prostrate; paralysis same
- 7/28/51 - Prostrate; almost complete paralysis of lower + back; eyes in, but in complete paralysis of upper
- 7/29/51 - Same
- 7/31/51 - Same
- 8/1 - Same as 7/28
- 8/2 - Same
- 8/3 - No change
- 8/4 - Same
- 8/7 - almost complete of extremities + back
- 8/10 - Complete of lower back + legs upper - alert - 5 antibiotic



Some levels - extensive hemorrhage without inflammatory reaction in ant. horns.

Other levels - slight inflammatory reaction

Virus  
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D - 7 days after last dose of cortisone  
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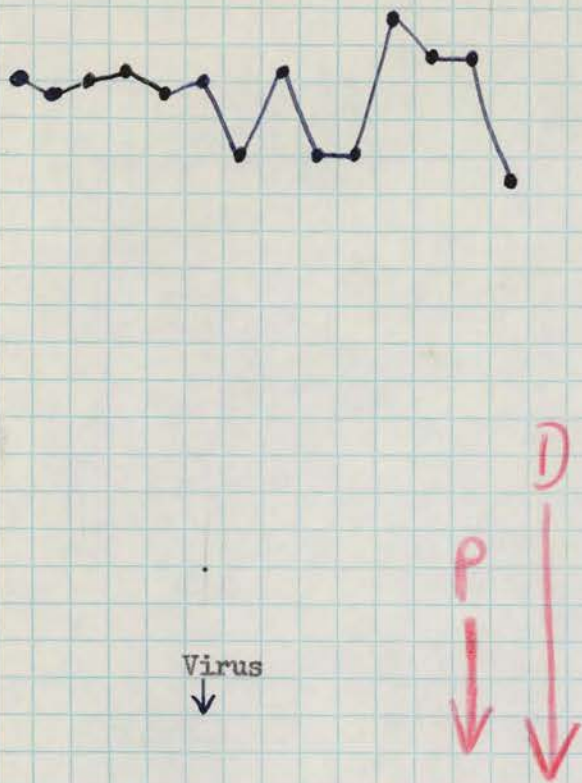
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July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/25/51 - Am - Partial Paralysis of lower, especially thigh muscles; Partial Paralysis of deltoids; Can not climb, this easily; rit's up.
- Pm - Extremes Paralysis of left upper; Partial paralysis of right upper + hip muscles - head wobbles
- 7/26/51 - Pm - Prostrated; almost Complete Paralysis of upper limbs + back; aphonia; at. facial Paralysis
- 7/27/51 - Am - Complete Paralysis of 4 lower limbs + back; prostrated
- 7/28/51 - aphonia
- 7/29/51 - Same
- 7/30 - Prostrated, almost terminal; pus exuding from right eye, Pan ophthalmitis.
- 7/31 - Terminal
- 8/1 - No movement except for shallow breath
- 8/2 - 5:00 P.M. DEAD.
- 8/3 - 9:00 AM - Necropsy  
CNS in Z.A.

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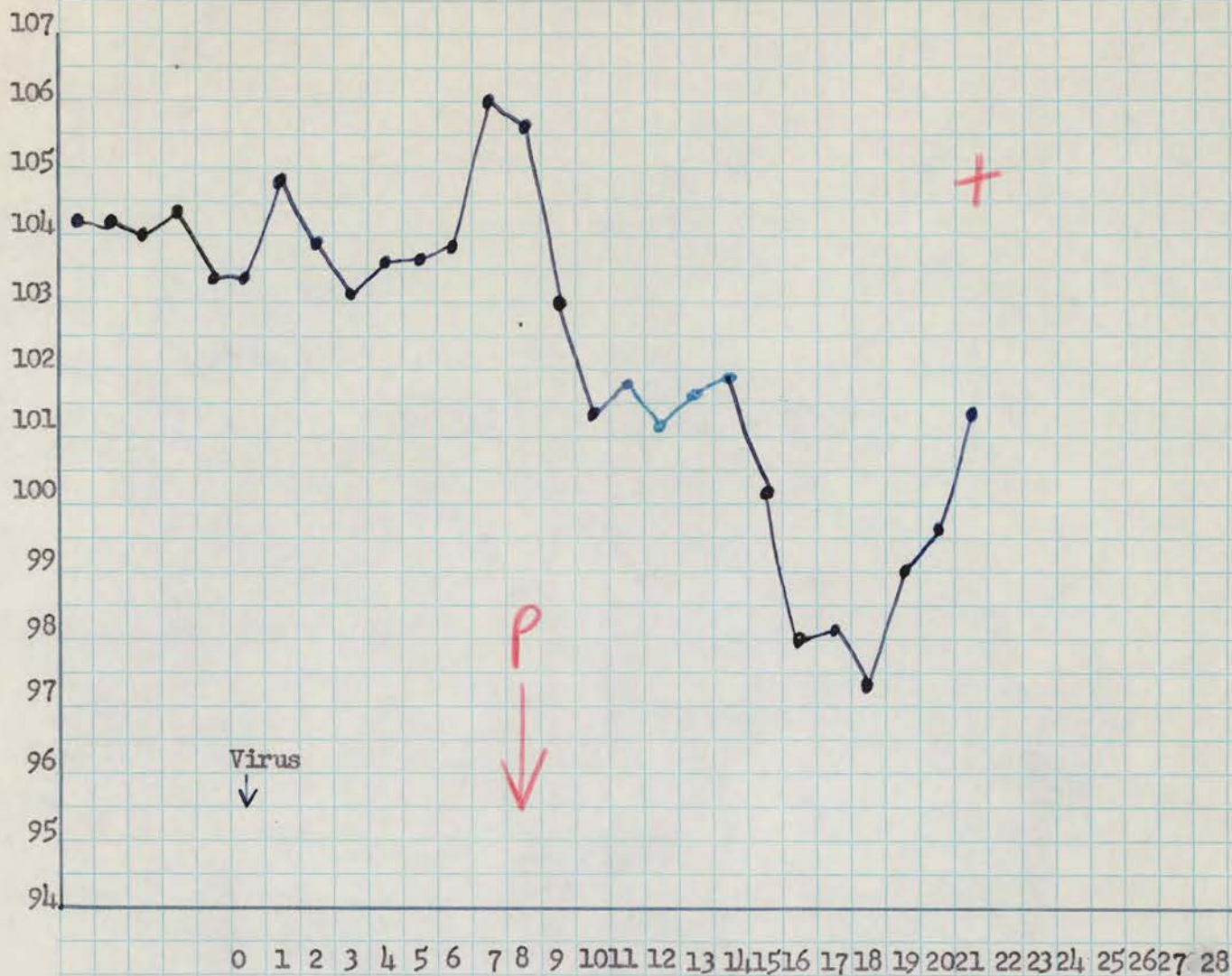
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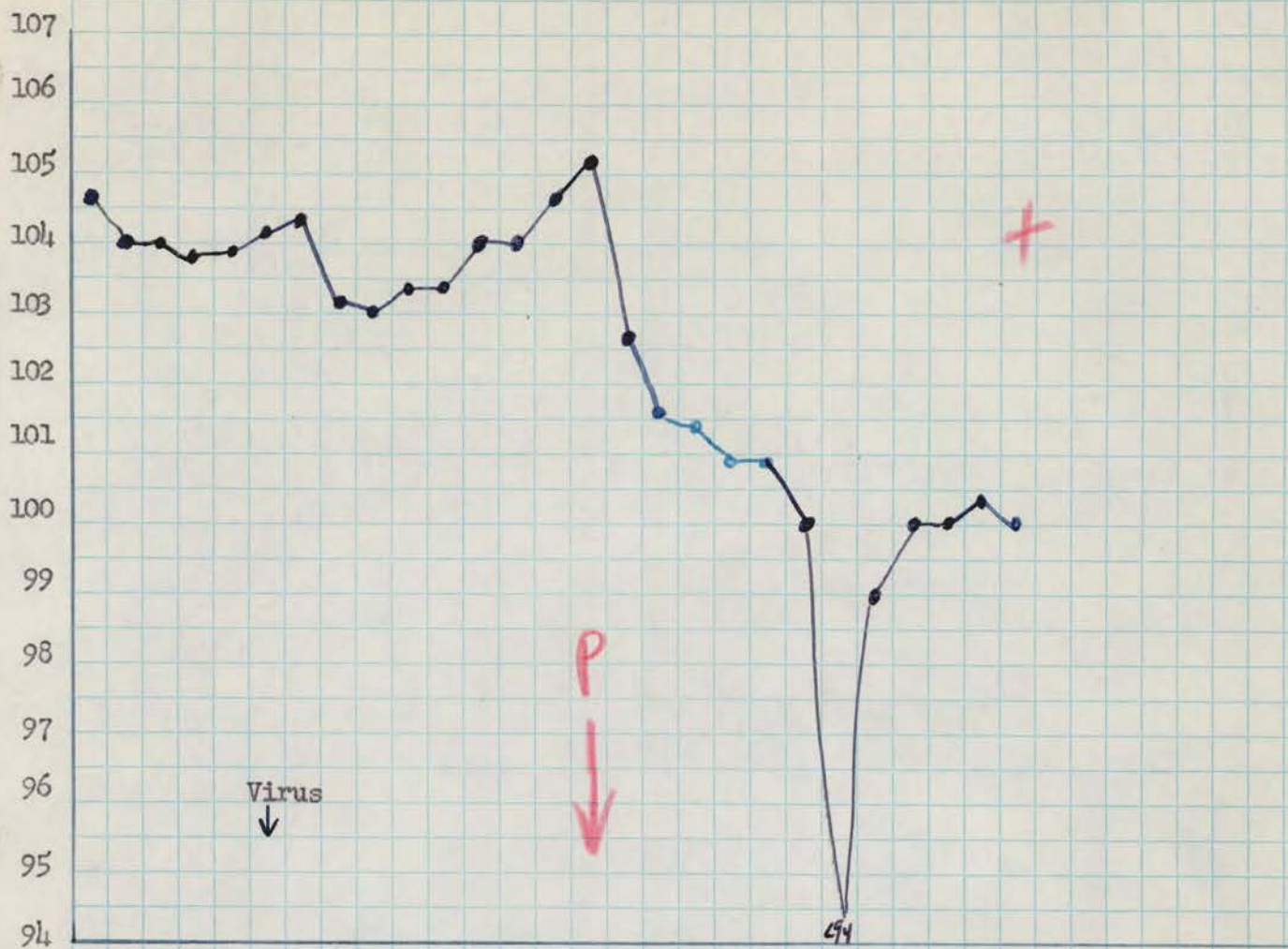
7/27/51 - pm. can not climb; Paralysis of both hindlimbs;  
 weak hinders  
 7/28/51 - prostrates; Completely paralysis of entire itis + back;  
 aphasia  
 7/29/51. 8:00 am Found dead



July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/27/51 - Pm - E. fatal
- 7/28/51 - Partial paralysis of deltoids
- 7/29/51 - Partial paralysis of extremities; sits up.
- 7/30/51 - Prostrate; almost complete paralysis of extremities + back.
- 7/31 - Same
- 8/1 - Same as 7/30
- 8/2 - Same
- 8/3 - no change
- 8/7 - Same
- 8/10 - Complete paralysis - of the legs wasting of muscles; about 5 sacrificed

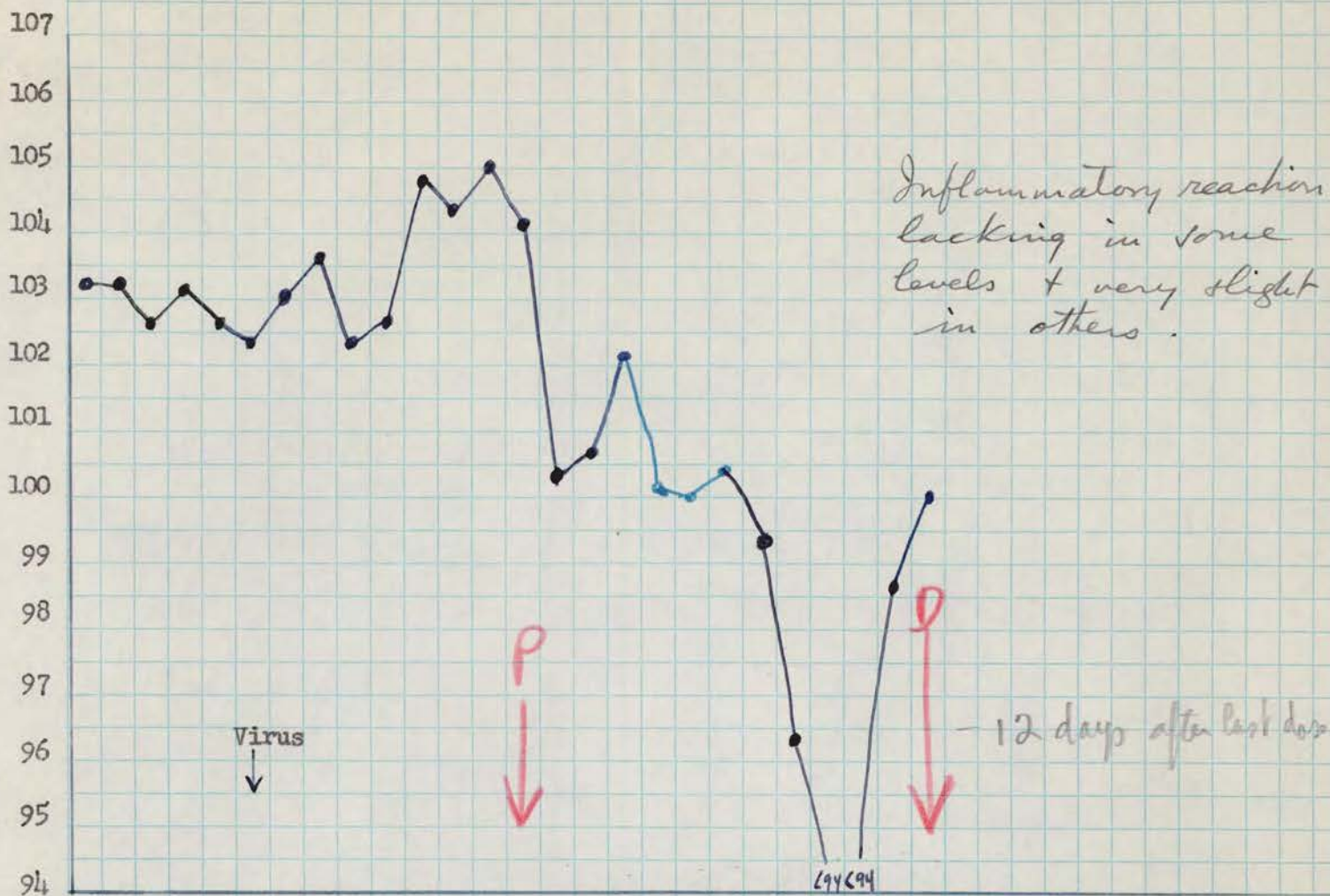


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July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/28 - Exited
- 7/29 - Exten sin Paraly in of left upper, other exten itis weak
- 7/30 - Prostrate, exten sin but in Complete paralysis of exten itis + back.
- 7/31 - Complete paralysis of extremities + back
- 8/1 - Same
- 8/2 - Same
- 8/3 - no change
- 8/7 - Same
- 8/10 - Same, marked wastage of muscles; sacrificed



Virus  
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- 12 days after last dose

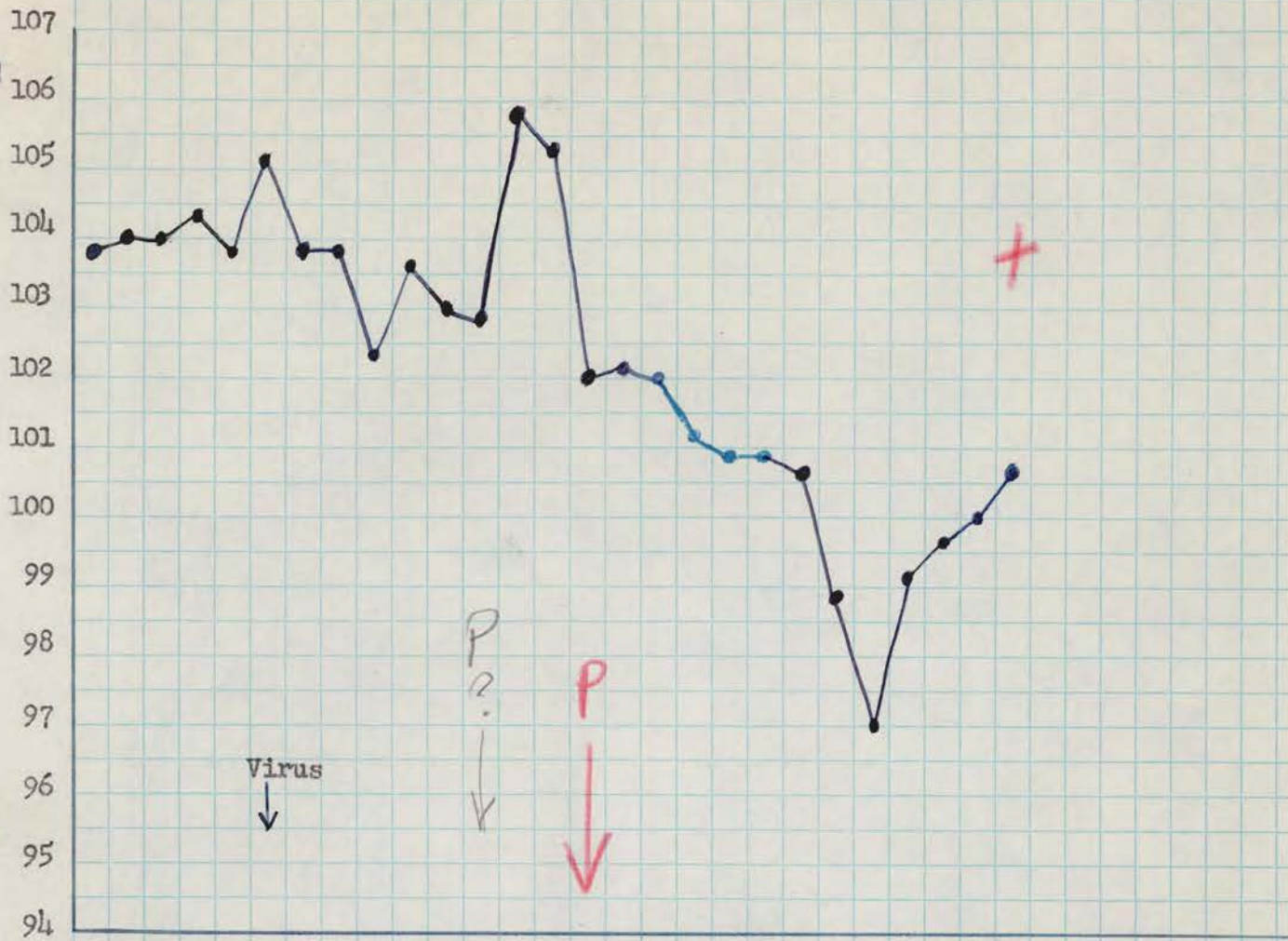
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July 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑↑↑↑↑↑↑↑↑↑

- 7/27/51 - Pm - Tremor; excited
  - 7/28/51 - Partial Paralysis of extremities; into up.
  - 7/29/51 - Extensive Paralysis of extremities; prostrate
  - 7/30/51 - prostrate Complete Paralysis of extremities + back.
  - 7/31/51 - Complete paralysis of extremities + back.
  - 8/1 - Same
  - 8/2 - Same
  - 8/3 - No change
  - 8/7 - Same
  - 8/9 - 5:00 P.M. - FOUND DEAD - not yet in rigor
  - 8/10 - 9:00 AM Necropsy - CNS firm.
- CNS - Z.A.



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 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- 7/25/51 Pm - Very excited; cries a lot
- 7/26/51 - Paralysis of left foot & ankle - Polio? or in doubt in jury? no evidence of fracture or bruise
- 7/27/51 - Am - no paralysis evident
- 7/28/51 Pm - Excited, Pilo motor
- 7/29/51 - Excited, Pilo motor
- 7/30/51 - Prostrate; extensive paralysis of extremities & back.
- 7/31/51 - Almost complete paralysis of extremities and back, Prostrate
- 8/1 - Same
- 8/2 - Complete paralysis of extremities and back
- 8/3 - Same
- 8/7 - Same
- 8/10 - Same - marked wasting of muscles