

150
+
Pozio
II

ISO PLASMOCID — S.N. 13058-17 —

SEP 3 1948

September 3-48

8(3-diethylamino propyl-amino) 2-methoxyquinoline

Purpose — Effect of continued oral administration of "Isoplasmocid" on infection with poliomyelitis virus

SEP 1 1948 — Temperatures begun for control period prior to administration of drug, to establish "normal level"

SEP 3 1948 — Drug begun in morning and given twice daily at 8:30 A.M. and 4:30 to 5 P.M.
12 mg. base/kg. by mouth b. i. d.

MONKEYS TO BE USED:

		lbs	Kg.	mg Base 12 mg/kg. w	c.c. S.S.	c.c. Water
✓ 602	✓	5 ³ / ₄	1,844	22.12	2.2	18.8
✓ 609	✓	6 ¹ / ₂	2,939	32.87	3.3	16.7
611	✓	6 ³ / ₄	3,061	36.73	3.7	16.3
✓ 612	✓	6 and 6 ¹ / ₂	2,948	35.38	3.5	16.5
✓ 677	✓	4 and 10 ¹ / ₂	2,608	31.29	3.1	16.9

SEP 7 1948 — Monkey 611 X Kept as drug control without virus
Monkeys 602 X, 609 X, 612 X, 677 X and the following controls:

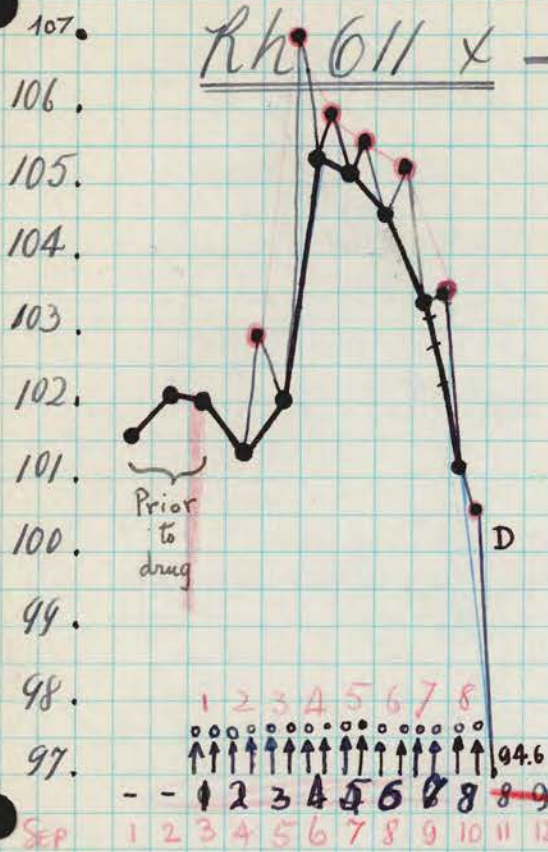
605 X — temp 102.8
606 X — " 101.9
610 X — " 103.0
676 X — " 102.5

were inoculated intracerebrally into right frontal region with 1cc of 1:500 [redacted] virus — aliquot of same preparation used in previous experiment.

DRUG CONTROL - No VIRUS
12mg base/kilo/~~day~~ bid.

September 3-48

Rh 611 x -



HISTOLOGIC EXAMINATION

Neurons in spinal cord in good condition - few with chromatolysis could be due to postmortem change.

Neurons in medulla and midbrain - some in excellent condition - others show chromatolysis.

Oculomotor nuclei, red nucleus, Vestibular nuclei & lateral reticular nuclei show chromatolysis.

Will have to check with normal and sacrificed animal before being certain that it is due to drug.

September 5 AM. O.K.
PM. O.K.

September 6 AM. O.K.
PM. O.K.

September 7 AM. O.K.
PM. O.K.

September 8 AM. O.K.

PM. Hair erected over shoulder, head and back.

September 9 AM. Same condition. Weak -

PM. Same condition. Does not climb

September 10 AM. Sometimes lies on cage, but can sit up. -

PM. Same condition.

T. 11:45 PM. 98.2

September 11 AM. Very weak. Cannot sit up. -

Dead - Between 8:45 and 9:15. Blood is taken from heart to culture in bottle. Perfused: 1200 c.c. Saline - Sal. Formaldehyde - 4.4% begun to pass through at 10:42 - 1515 c.c. 25 minutes after the beginning, the fluid OK

dropped from the tube* (right ventr.) at 45 drops/15 seconds =
= 180 drops/minute. No blood in the fluid.

At 11:30: 160 drops/minute

At 11:40: 140 drops/minute.

At 11:45: 128 drops/minute → Least 100 c.c (more or less)

At 11:55: Finish: 100 drops/minute. Fluid's level at cork (rubber)

Bottle: 1.90 m. from floor — Monkey at table on sink. Mild Frodoenberg: 10°.

Needle: 16 — tube taken from capillary pipet.

Total time for Saline-Farm - A.A: 73 minutes. (1515 c.c.)

Gross Examination — When the chest was opened, it was found that the the right middle lobe and left lower lobe of the lungs were almost completely atelectatic. No obstruction was found in the bronchi leading to these lobes.

The abdominal viscera showed no gross pathologic change, although the spleen appeared enlarged.

Sections of each of the viscera, ~~was~~ after perfusion with formalin, were put into Z.A. and some into formalin.

Nervous System — The spinal cord and pons-medulla were well fixed by perfusion while the remainder of the brain was soft and hardly affected.

Sections were put into Z-A. and remainder into formalin

Culture of Heart's Blood in Broth (a 1-2 cc per tube)

Tube 1 — 000

*

Tube 2 — 000

September 3-1948

Rh. 609 x

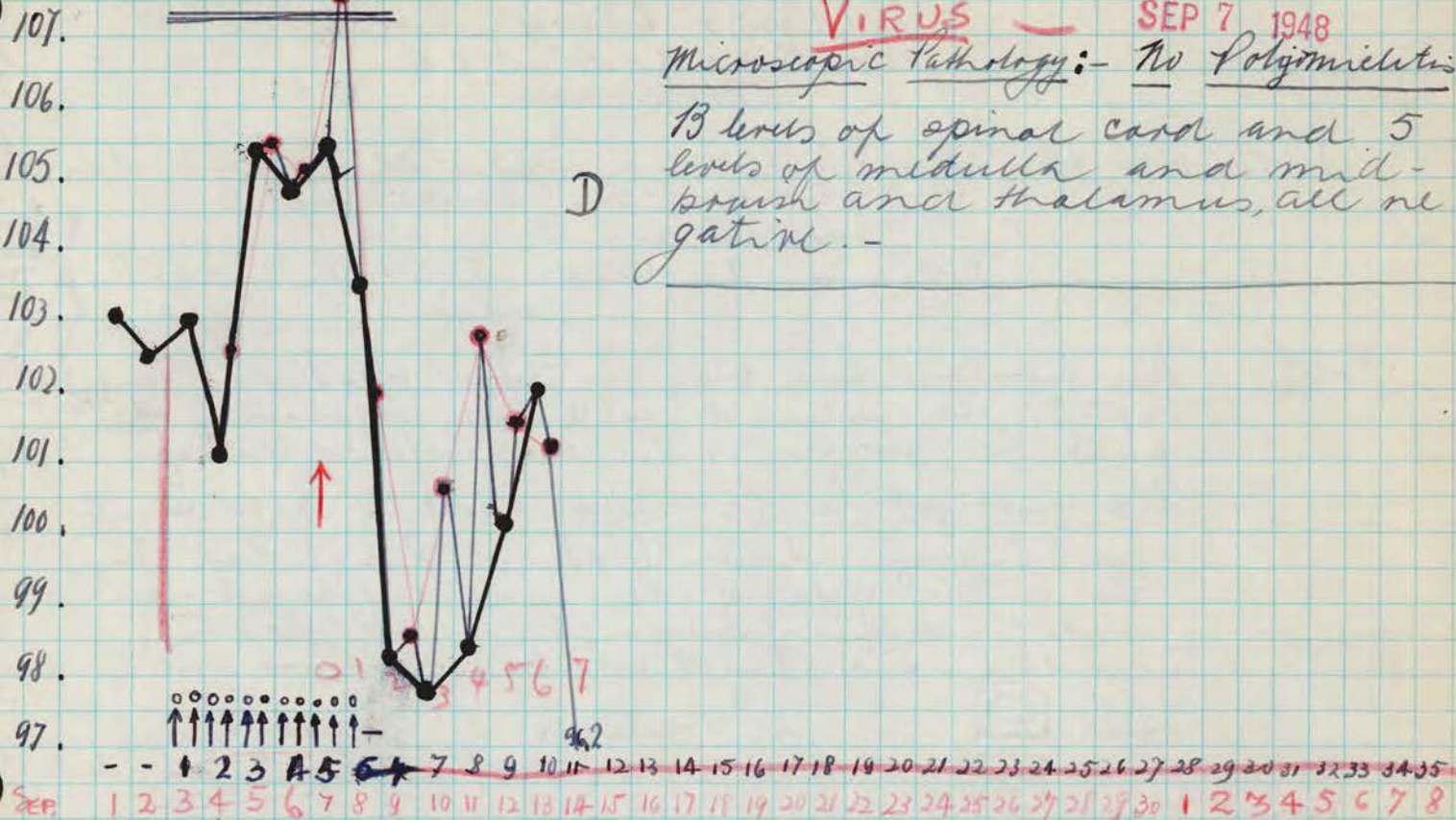
VIRUS

SEP 7 1948

Microscopic Pathology: - No Polymyelitis

13 levels of spinal cord and 5 levels of medulla and mid-brain and thalamus, all negative. -

D



September 5 AM O.K. PM O.K.

September 6 AM O.K. PM O.K.

September 7 AM O.K. - virus icter. PM O.K.

September 8 AM Very weak. Echin. PM ~~Weak~~ Thin, diarrhea; sits up and eats; climbs no CMS, but appears weak.

September 9 AM Same condition. Pilomotor. does not climb. PM Marked weakness. - 11 P.M. 98.4. -

September 10 AM Same condition - Can sit up. -

T: 3.20 A.M. : 98.3
- 4.30 A.M. : 98.2
5.30 A.M. : 98.1
8.30 A.M. : 97.8

PM. Same condition. - Diarrhea.

September 11 AM Diarrhea. Flegmon on superior lip. PM Same condition. - Dehydrated. [Left side] Diarrhea. The flegmon began on 11/11/48 produced with the stick. - OVER

September 12 AM. Very weak - Diarrhea - Dehydrated.
+ flaccid on some conditions.

P.M. Same condition.
September 13 AM. Flaccid become extended. The
left eye is ~~open~~ close because the
inflammatory process.
Very thin and weak.
P.M. Same condition.

September 14 AM. - Thinner and weaker than yesterday.
+ flaccid same condition.
P.M. Can sits up.
Found dead at 2 P.M. - still
warm.

Note: This monkey has been in poor condition since
Sept. 8. An extensive cellulitis affecting ~~the~~
first the corner of the mouth (originally
traumatized by the stick used to hold mouth
open during administration of drug) and then
the entire side of the face appeared on
Sept. 11 and grew worse until death.
Marked diarrhea + weakness since Sept. 8.
However - no evidence of paralysis
found even shortly before death.

Necropsy - immediately after death.

Lungs - markedly emphysematous and almost
bloodless except near areas ~~affected~~
involved by abscesses.

Large area of consolidation with free
pus in left upper lobe + several
smaller abscesses in other lobes.

Smear of pus - loaded with Gram pos. cocci

Viscera - no gross pathologic change - spleen small.
Few aerophagostomum in colon.

CNS - no gross pathologic change.

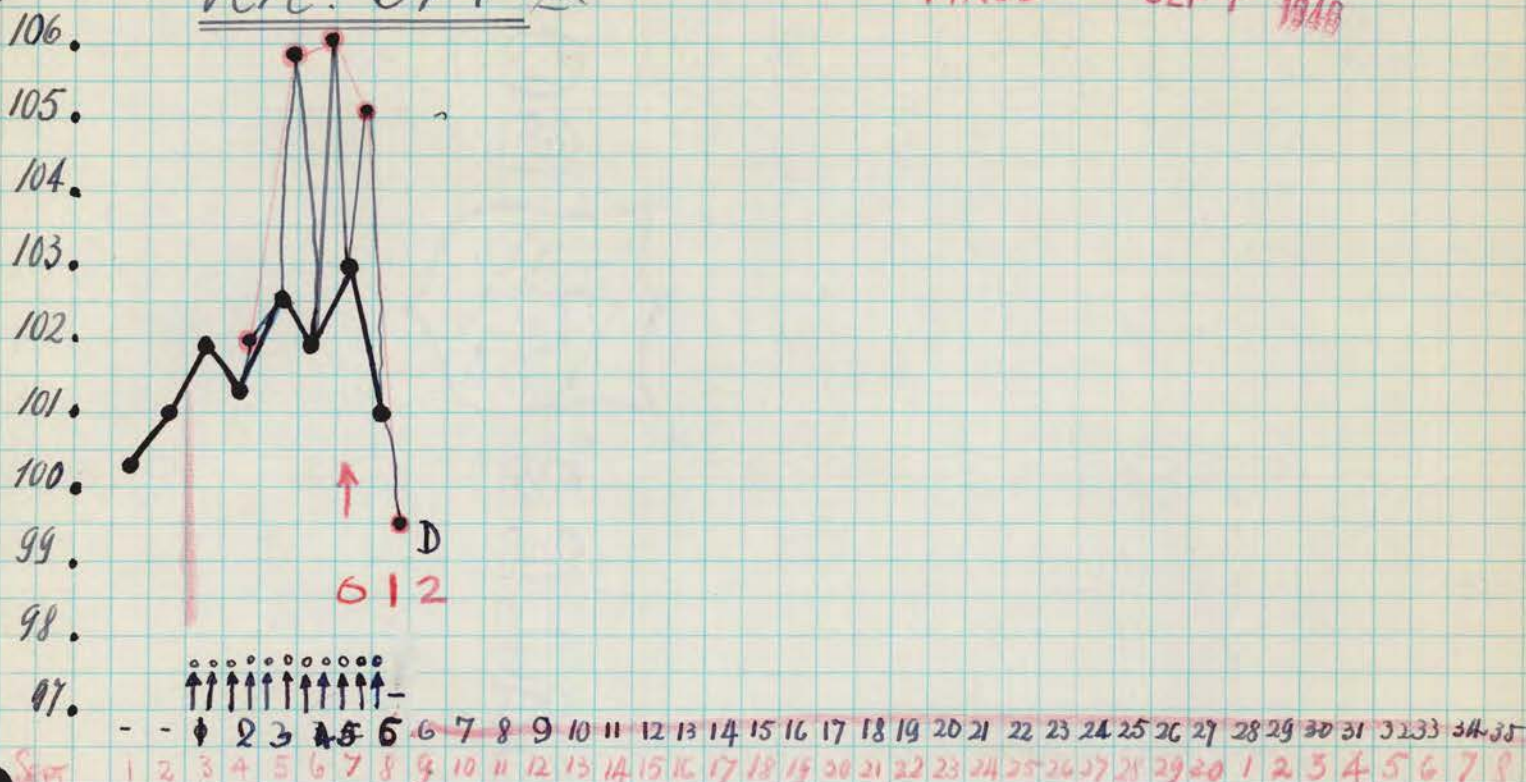
Pieces of spinal cord, medulla, midbrain
and thalamus in Z-A. - chiefly -
to determine presence or absence of acute
polio lesions in these areas.

S.N. 13058-17 - 150 PLASMODIUM

September 3, 1948

Rh. 677X

VIRUS - SEP 7 1948



September 3 - Diarrhea.

September 4 - Mild diarrhea.

September 5 AM Same condition.
PM O.K.

September 6 AM - O.K.
P.M. - O.K.

September 7 A.M. O.K. - virus icon
P.M. O.K.

September 8 A.M. Weak Chin -
P.M. ~~Weak~~ Very thin and weak; diarrhea
no CNS signs. Sits up and eats. Moves all
extremities

September 9 AM Dead, rigor mortis.
Put in Refrigerator at 7.20 A.M.
Autopsy: 11.15 - : E.A.

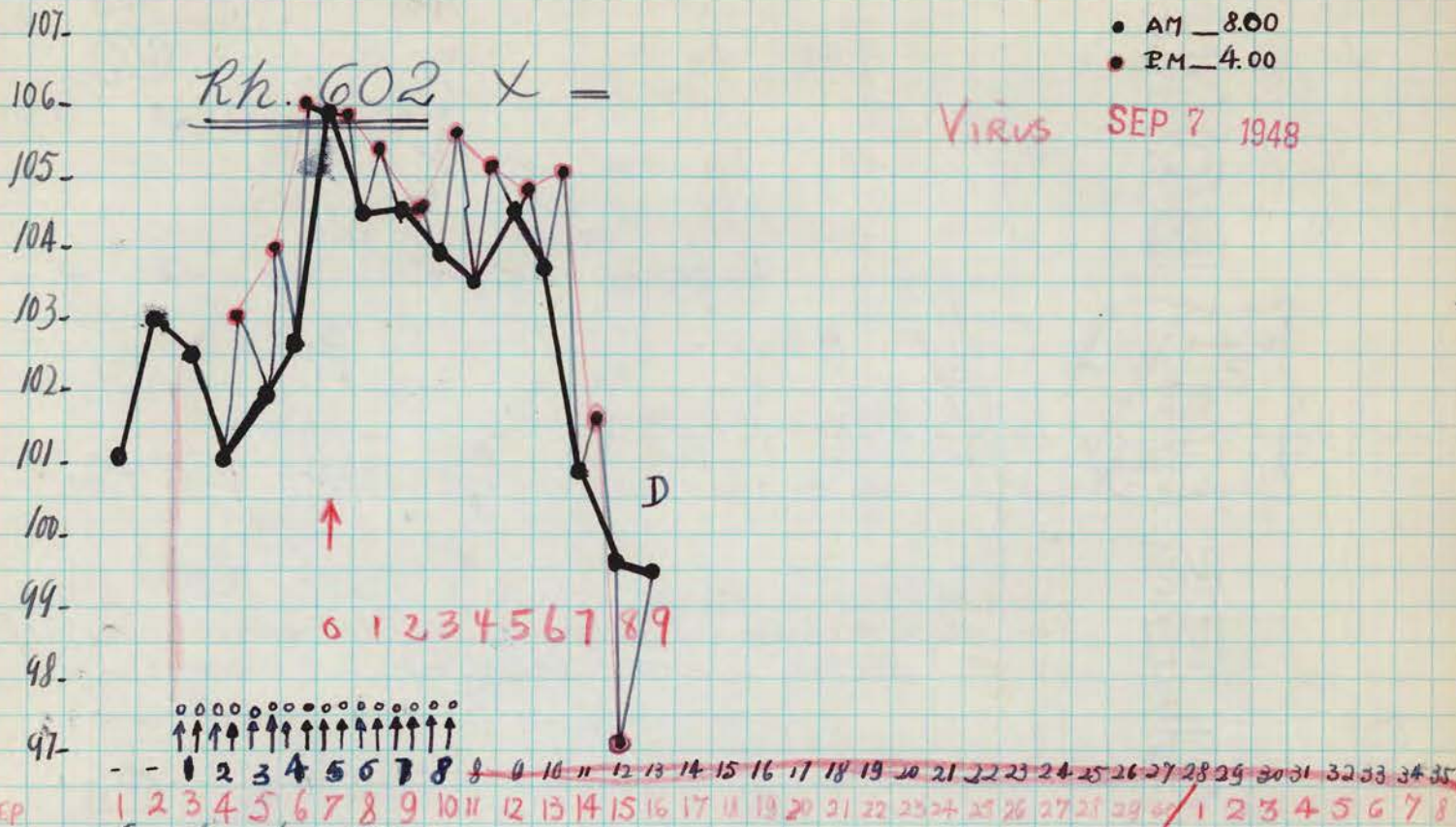
With exception of "chronic" pleural adhesions in
few places, no evidence of gross pathology
found in viscera.

Microscopic Pathology.

- Considerable post-mortem degeneration of cell but no evidence of virus in spinal cord, medulla or brain stem.
- One section of spinal cord shows small portion of anterior roots with marked proliferation of Schwann cells. - Anterior horns itself show not obvious evidence of outfall of neurons.
- One sections of lungs shows peculiar pneumoniae.
- One section of liver shows no obvious pathology.
- Also spleen no obvious pathological changes.

• AM - 8.00
 • PM - 4.00

VIRUS SEP 7 1948



September 5 AM O.K.
 PM O.K.

September 6 AM O.K.
 PM O.K.

September 7 AM O.K. - virus seen
 PM O.K.

September 8 AM O.K.
 PM O.K.

September 9 AM Hair erect over shoulder and head.
 PM Same condition.

September 10 AM Same condition.
 PM Same condition.

September 11 AM Same condition.
 PM Same condition. - Diarrhea.

September 12 AM Same condition. - Mild diarrhea.
 Plegmon on lip (superior) left side.

September 13 AM Same condition. - Mild diarrhea.
 The plegmon began on nose produced with the stroke. Abscesses seen on the back of the left knee.
 OVER.

September 13 - P.M. Same condition -
Diarrhea

September 14. A.M. Same condition.
P.M. Same condition.

September 15 - A.M. Same condition.
P.M. Same condition.

September 16 - A.M. same condition.
Very weak.
13⁰⁰ P.M. - dead - warm.
Necropsy immediately after dead.

Autopsy: No gross pathological changes. No enteritis - spleen small.

Sections of each of ^{the} viscera were put into Z.A. -

C. N. S. Sections were put in Z.A, chiefly to determine presence or absence of acute polio lesions in these areas. -

Microscopic Pathology - No polyneuritis

6 levels of spinal cord,
5 levels of medulla,
1 m. of brain,
Hypothalamus,
Hypothalamus, -> All negative.

C. N. S.

- Liver - Some distension of mammal archi-
leule and one miliar abscess. -
- Adrenal: No obvious pathology.

S.N. 13058-17

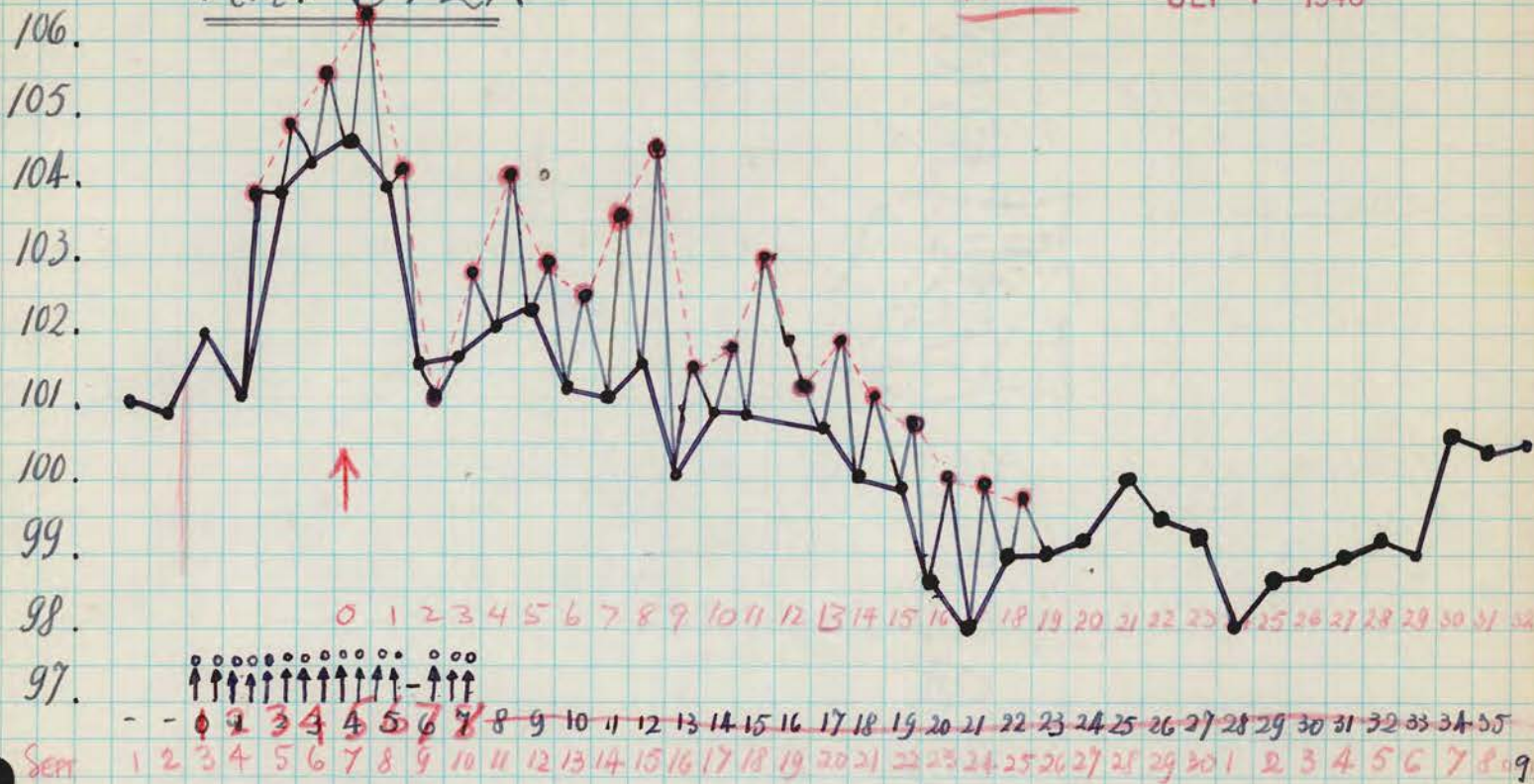
150 PLASMOCID

September 3, 1948

Rh. 612X-

VIRUS

SEP 7 1948



September 5 - AM. O.K.
PM. O.K.

September 6 - AM. O.K.
PM. O.K.

September 7 - AM. O.K. - virus seen - loc 11500 Hoferkamp
PM. O.K.

September 8 - AM. O.K.
PM. O.K.

September 9 - AM. Weak.
PM. Same condition.

September 10 - AM. Same condition.
PM. Same condition.

September 11 - AM. Same condition.
PM. Same condition.

September 12 - AM. Same condition.

September 13 - A.M. Same condition. - Edema on eyelids.
P.M. Same condition.

- September 14 PM - Same condition - Diarrhea -
 No edema on eyelids.
- September 15 - AM - Same condition
PM - Same condition - Mild diarrhea
- September 16 - AM - Same condition.
PM - O.K.
- September 17 - AM - O.K.
PM - O.K.
- September 18 - AM - O.K.
PM - Diarrhea - a nodule on inoculation
 place.
- September 19 - AM - Mild diarrhea.
PM - Same condition -
- September 20 - AM - Same condition - Diarrhea.
PM - Diarrhea -
- September 21 - AM - Diarrhea.
PM - Diarrhea
- September 22 - AM - Diarrhea.
PM - Same condition.
- September 23 - AM - Same condition - No diarrhea.
PM - Same condition -
- September 24 - AM - Same condition.
PM - O.K.
- September 25 - AM - O.K.
PM - O.K.
- September 26 - AM - O.K.
PM - O.K.
- September 27 - AM - O.K.
PM - O.K.
- September 28 - AM - O.K.
PM - Mild diarrhea.
- September 29 - AM - Same condition.
PM - Same condition
- September 30 - AM - O.K.
PM - O.K.
- October 1 - AM - O.K.
PM - O.K.
- October 2 - AM - O.K.
- October 3 - O.K.

ISO PLASMOCID IN MONKEY.

Rh. 612 x -

9/3_1948

October 4 - o.k.

October 5 - o.k.

October 6 - o.k.

October 7 - o.k.

October 8 - o.k.

October 9 - o.k. (32th day)

October 10 - o.k. 101.1 - (33th) } after inoculation. -

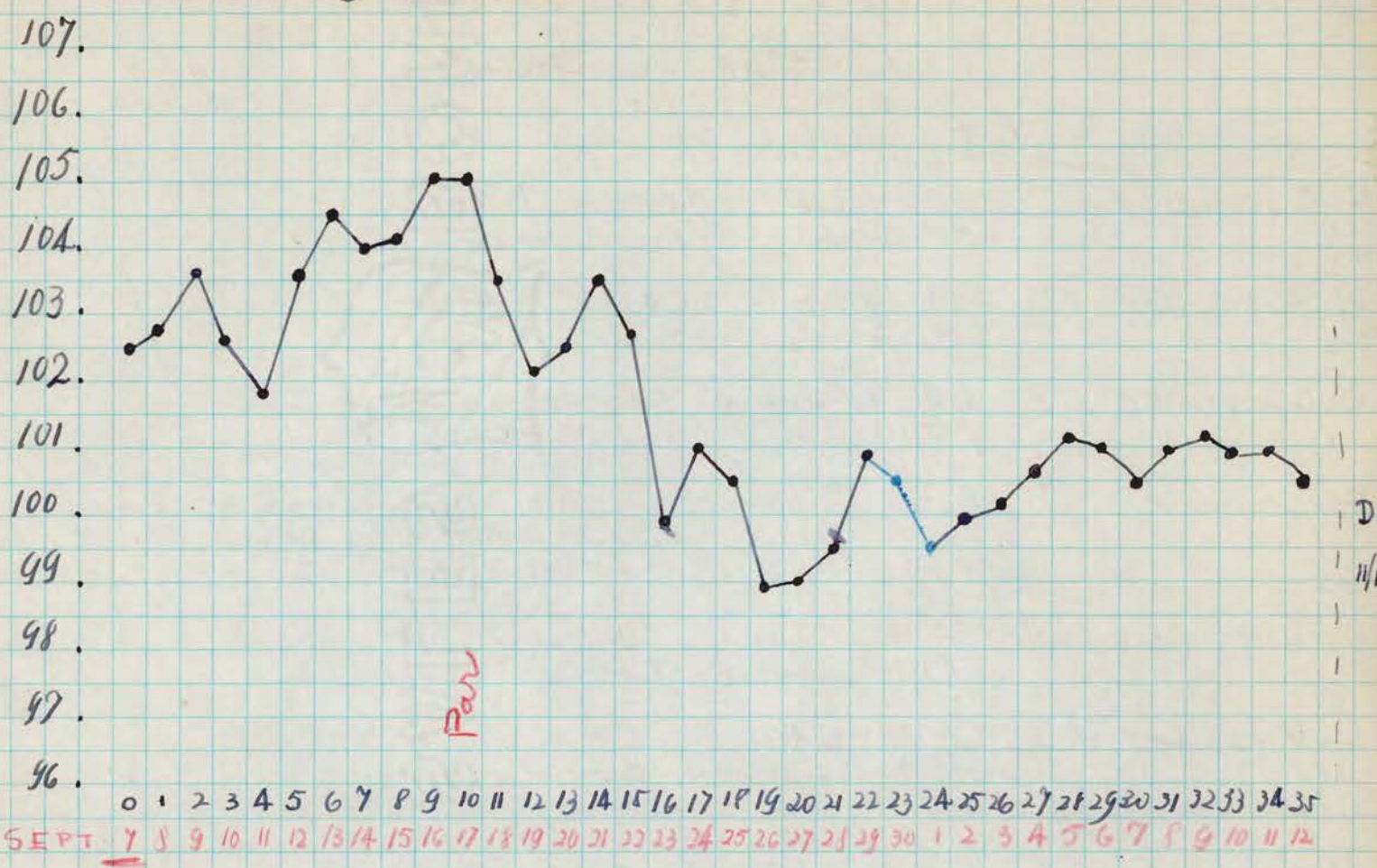
October 11 - o.k. 101.5 - (34th)

October 12 - o.k. 99.8 - (35th)

October 13 - Killed - Perfusion
with saline - formaline. Poor
no gross pathological change
in viscera. -

Microscopic Pathology: No Poliomyelitis

150 PLASMOCID CONTROL - KC Hofkamp
Rh. 676 v- VIRUS 1:500
 SEP 7 1948



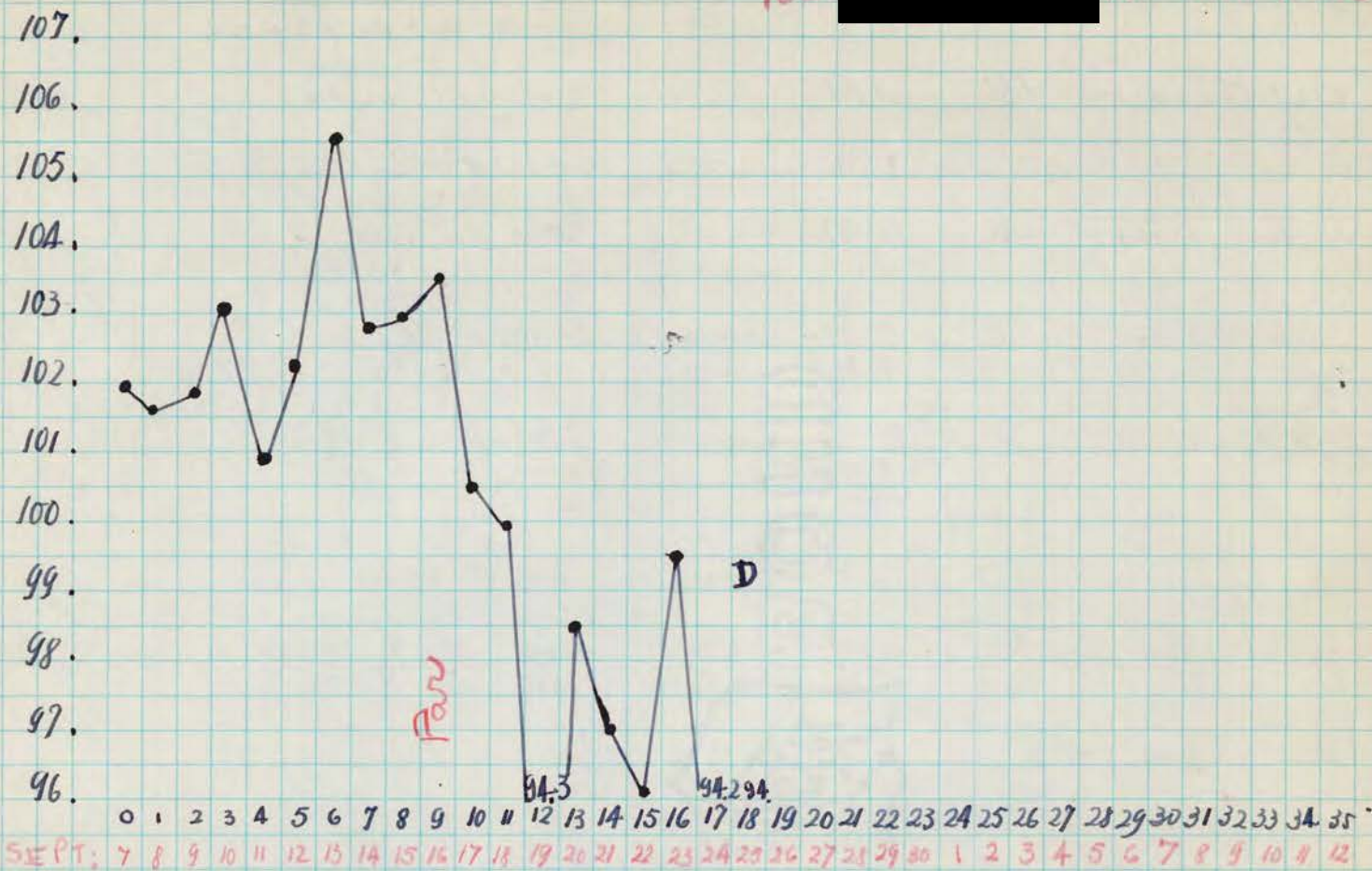
- September 8 - O.K.
- September 9 - A.M. O.K.
P.M. O.K.
- September 10 - A.M. O.K.
P.M. O.K.
- September 11 - A.M. O.K.
- September 12 - A.M. O.K.
P.M. O.K.
- September 13 - A.M. O.K.
P.M. O.K.
- September 14 - A.M. O.K.
- September 15 - A.M. O.K.
P.M. O.K.
- September 16 - A.M. Tremor - Pilomotor - Excited
P.M. Same condition -
- September 17 - A.M. Partial paralysis left lower
Tremor - Pilomotor.
P.M. Same condition
- September 18 - A.M. Partial paralysis both lower
and left upper - Tremor - Pilomotor.

- September 18 - P.M. Same condition.
- September 19 - AM - Both lower and back
also paralysed -
Paralysis on left upper.
Partial paralysis on right
upper. No fever - No neck -
P.M. - Same condition.
- September 20 - AM. Same condition.
P.M. Same condition.
- September 21 - A.M. Same condition.
P.M. Same condition.
- September 22 - A.M. Same condition.
P.M. Same condition.
- September 23 - A.M. Prostrate - quadriplegia.
Back also paralysed.
P.M. Same condition.
- September 24 - A.M. Same condition.
P.M. Same condition.
- September 25 - A.M. Same condition.
P.M. Same condition.
- September 26 - A.M. Same condition.
P.M. Same condition.
- September 27 - A.M. Same condition.
- September 28 - A.M. Same condition.
- September 29 - A.M. Same condition.
- September 30 - A.M. Same condition.
- October 1 - A.M. Same condition.
- October 2 - A.M. Same condition.
- 3 - Same
- 4 - Same
- 5 - Same
- 6 - Same
- 7 - Same.
- 8 - Same
- 9 - Same
- 10 - Same
- 11 - Same.
- November 1 - Dead.

No autopsy.

Rh. 606 x-

Ice [redacted] Virus 1:500



September 8 AM. Weakness left upper
P.M. o.k. Same

September 9 AM. Same condition.
P.M. Same condition.

September 10 AM. o.k.
P.M. o.k.

September 11 A.M. o.k.
P.M. o.k.

September 12 AM. o.k.
P.M. o.k.

September 13 AM. o.k.
P.M. o.k.

September 14 AM. o.k.

September 15 AM. Same condition
P.M. Tremor

September 16 AM. Tremor. Pilomotor. Partial paralysis both lower and left upper.
P.M. Paralysis both lower and left upper. Partial paralysis right upper

OVER

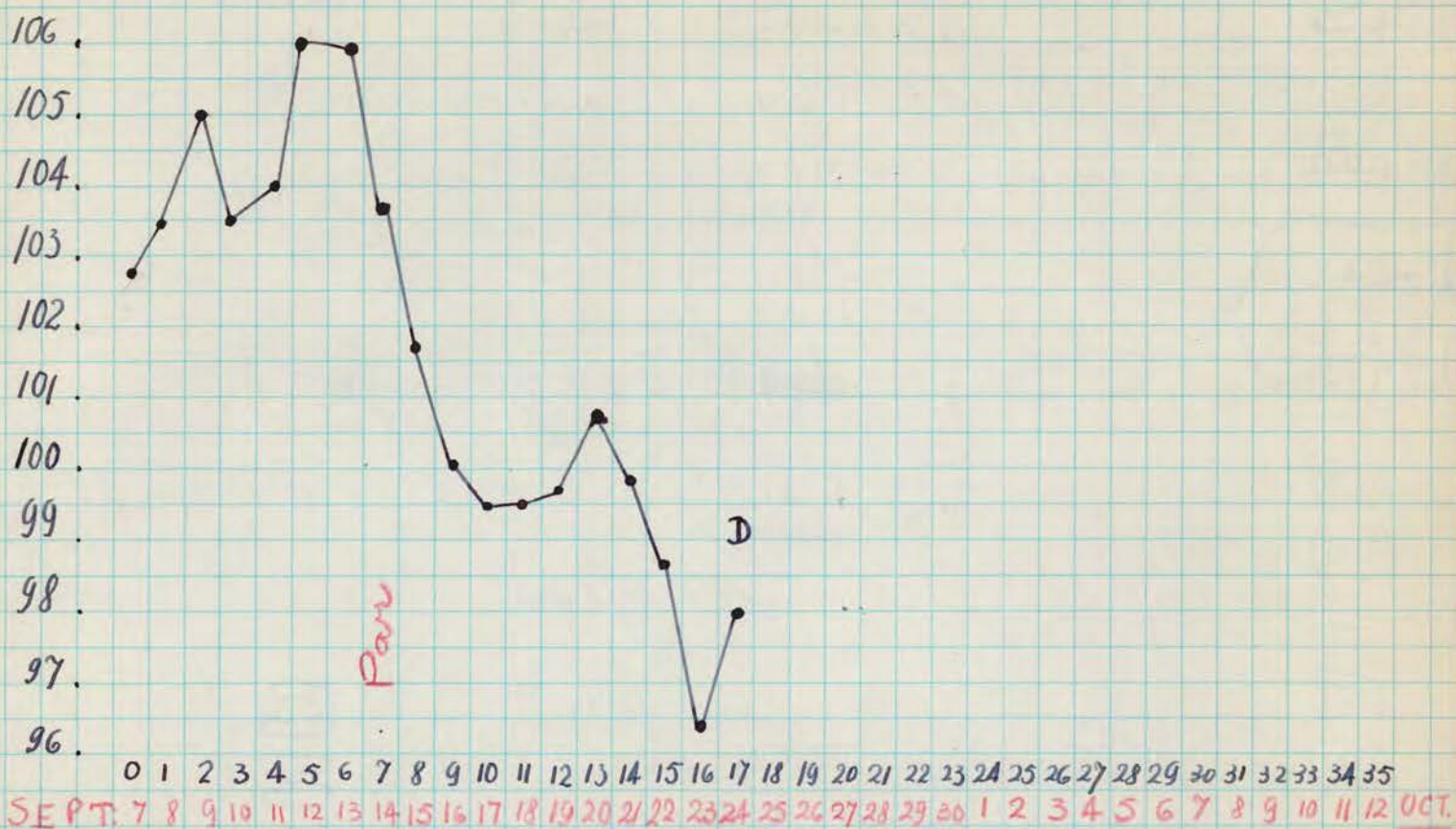
- September 17 - A.M. Quadriplegia - Back paralyzed
No neck.
- September 18 - A.M. - Same condition.
P.M. - Completely prostrate.
- September 19 - A.M. Same condition. -
P.M. Same condition
- September 20 - A.M. Same condition.
P.M. Same condition.
- September 21 - A.M. Same condition. -
P.M. Same condition.
- September 22 - A.M. Same condition.
P.M. Same condition
- September 23 - A.M. Same condition. -
P.M. Same condition.
- September 24 - A.M. Same condition.
P.M. Same condition.
- September 25 - A.M. Very weak.
P.M. Dead.

No autopsy.

150 PLASMOCID - CONTROL for VIRUS - Lee Hefenkamp 1500

Rh. 605 x -

September 7 - 1948



September 8. O.R.

September 9. A.M. - Very excited. Hair erect over head and shoulders. -

P.M. - Same condition
September 10. A.M. - Complete ptomotor.

September 11. A.M. - Same condition.

September 12. A.M. - Same condition. -
P.M. - Tremor on head. -

September 13. A.M. - Marked tremor and bilateral ptosis. -
P.M. - Same condition.

September 14. A.M. - Partial paralysis left upper. Partial paralysis right lower. Weakness on left lower and back. Marked tremor and ptomotor.

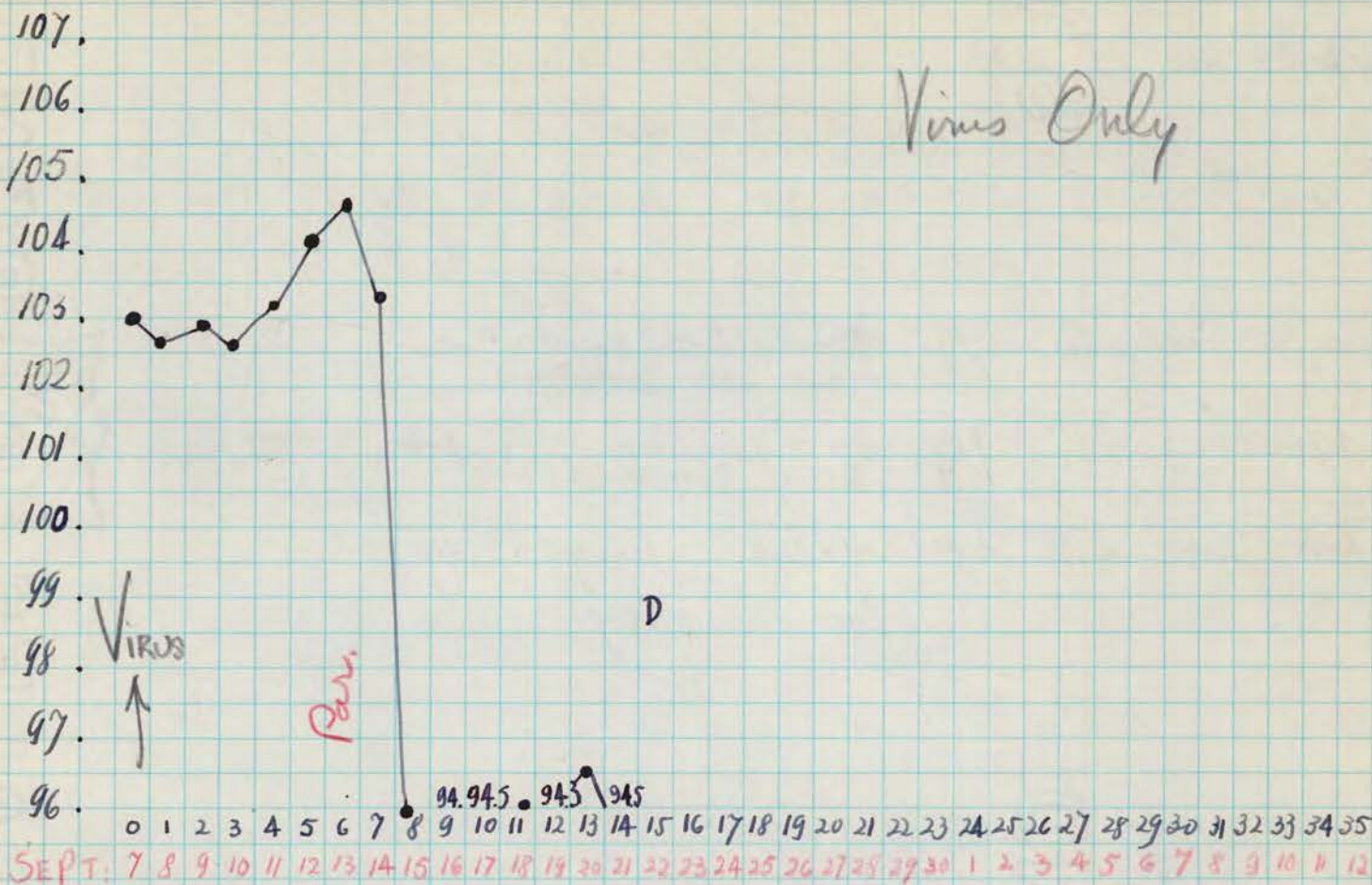
September 15. A.M. - Quadriplegia - Back also. No neck tremor. -
P.M. - Same condition

September 16. A.M. - Same condition. P.M. - Same condition

- September 17 - A.M. Same condition.
P.M. Same condition.
- September 18 - A.M. Completely prostrate.
P.M. Same condition.
- September 19 - A.M. Same condition.
P.M. Same condition.
- September 20 - A.M. Same condition.
P.M. Same condition.
- September 21 - A.M. Same condition.
P.M. Same condition.
- September 22 - A.M. Same condition.
P.M. Same condition.
- September 23 - A.M. Same condition.
P.M. Dead.
- No autopsy.

150 PLASMOCID - CONTROL
Rh. 610 x - VIRUS SEP 7 1948

Virus Only



September 8 - O.K.

September 9 - AM. O.K.
P.M. O.K.

September 10 - AM. O.K.
P.M. O.K.

September 11 - A.M. O.K.
P.M. O.K.

September 12 - AM. O.K.
P.M. O.K.

September 13 - AM. O.K.
P.M. O.K.

Paralysis on left upper. Pilomotor tremor - Incoordination.

September 14 - AM - Both upper paralysed. Partial paralysis both lowers, on neck. Tremor - Pilomotor Back also paralysed.

September 15 - AM. Quadriplegia - Back and neck also.
P.M. Same condition.

September 16 - AM. Completely prostrate.
No paral.

P.M. Same condition.

September 17 AM Same condition.
P.M. Completely prostrate - No facial.

September 18 A.M. Same condition.
P.M. Same condition.

September 19 - AM. Same condition.
P.M. Same condition.

September 20 - AM. Same condition.
P.M. Same condition.

September 21 - AM. Same condition.
P.M. Same condition.

September 22 - A.M. Dead - Rigor mortis.
No autopsy