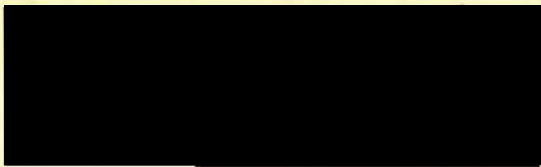


Pole 1949-



Cincinnati.

WARD H - Contagious

8-26-47

Disch. 9/15/47

[redacted] - white girl - 2 3/2 - [redacted]

ONSET - 8/24/47 - Fever, pain in back of neck,
vomited 4-5x

8/25 - Still fever - child staggered, head drawn
to right vomited once.

8/26 - same - admitted to hospital - Temp 101
Neckal + spinal rigidity, wt. legs?

CSP - WBC - 58 ; 78% L - 12% Polys
Pandy neg. ? 2290?

Throat Swabs, large solid stool and
blood obtained on admission

8/27 - Temp. 100° - condition same
Throat swabs II

Mrs. Tracy
Sec. Sec.

A. Stools -

Estimated Solids — 80 Gms.
 No Liquid Present
 Distilled Water — 800 cc.

Blended at low speed for 1 minute.

For Centrifugation — 300 cc.
 For Refreezing — 200 cc.
 Discard — 300 cc.

Volume of First Supernatant = 275 cc.
 Ether Added = 54 cc.

Untreated Sediment = 30 cc (For Intranasal use)

12/10/47. Final Am't Treated Stool Suspension =
Cult. - (Before Final Centrifugation) } same i.e. X very many colonies of 2 types
 (After Final Centrifugation) } 1) hemolytic - large sm. neg. rods.
 2) non-hemolytic - gran. neg. rods.

12/11/47. - Flask Broken during re-etherization by P. Schloss (some sprayed on face and questionably into rt. eye, & copious washing of conjunctiva & face continued for 15 minutes) -

The Portion of Original Blended stool pool frozen on 12/9/47 was Thawed for use: -

Volume of First Supernatant = 130 cc.
 Volume of Sediment = 30 cc (For Intranasal)
 Etherized - 20.0 cc Ether Added.

12/12/47. Volume of Treated Stool Suspa = 60 cc. (one 100 cc centrifuge tube broken in)
Cult. (Before Final Centrifugation) X } dense growth - large sm. neg. rods.
 After Final Centrifugation - X

12/13/47. - Re-etherized — 12.0 cc Ether Added. -

Amount of Suspension = ± 50 cc.
Cult. ✓✓✓

DEC 9 1947

B. Pharyngeal Swab Material

Amount of Fluid Expresses
Dist. Water Added

= 2.1 cc.

= 1.9 cc.

4.0 cc.

Ethan Added = 1.5 cc.

12/10/47.

After Final Centrifugation = 3.9 cc.

Cult: ✓✓

[Frozen 12-13-47 - (d5) - until ready for inoculation.]

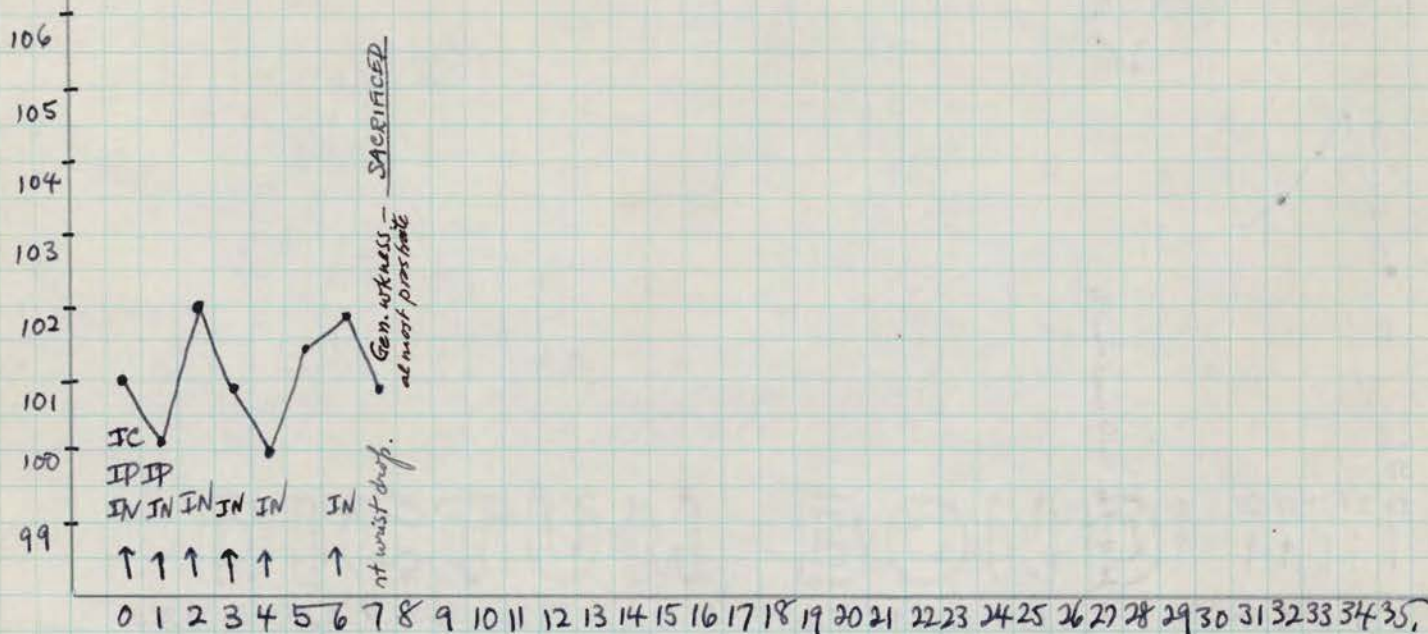
12-16-47. - Thawed for monkey inoculation. I.C.

DEC 16 1947

Treated Pharyngeal Swabs - IC ✓✓✓
Treated Stools ——— IP. ✓✓✓
Untreated Stools ——— IN.

Cult:

Rhesus #41-



12/16/47. Inoculated 1.5 cc. IC; 20 cc IP and 1 cc per nostril IN.

12/17/47. The IP dose was 8.0 cc.

12/18/47. Thin; mod. severe diarrhea.

12/20/47. Thin; very apathetic; diarrhea mod. severe.

A.M. 12/23/47. Thin; apathetic; almost complete aphonia; ? wrist drop on the right.

-P.M. same except rt. wrist drop a little more definite; animal listless and would probably not survive til tomorrow.

Sacrificed (chloroform - exsanguination)

Autopsy: No gross TBC; no peritonitis; consistency of lower bowel content is mod. well formed.

TISSUE FOR HISTOPATHOLOGY: - Cord levels; medulla; thalamus; off. bulbs. (24)

TISSUE FOR VIRUS: cord levels; most of medulla frozen in kinstenoid (C-1)

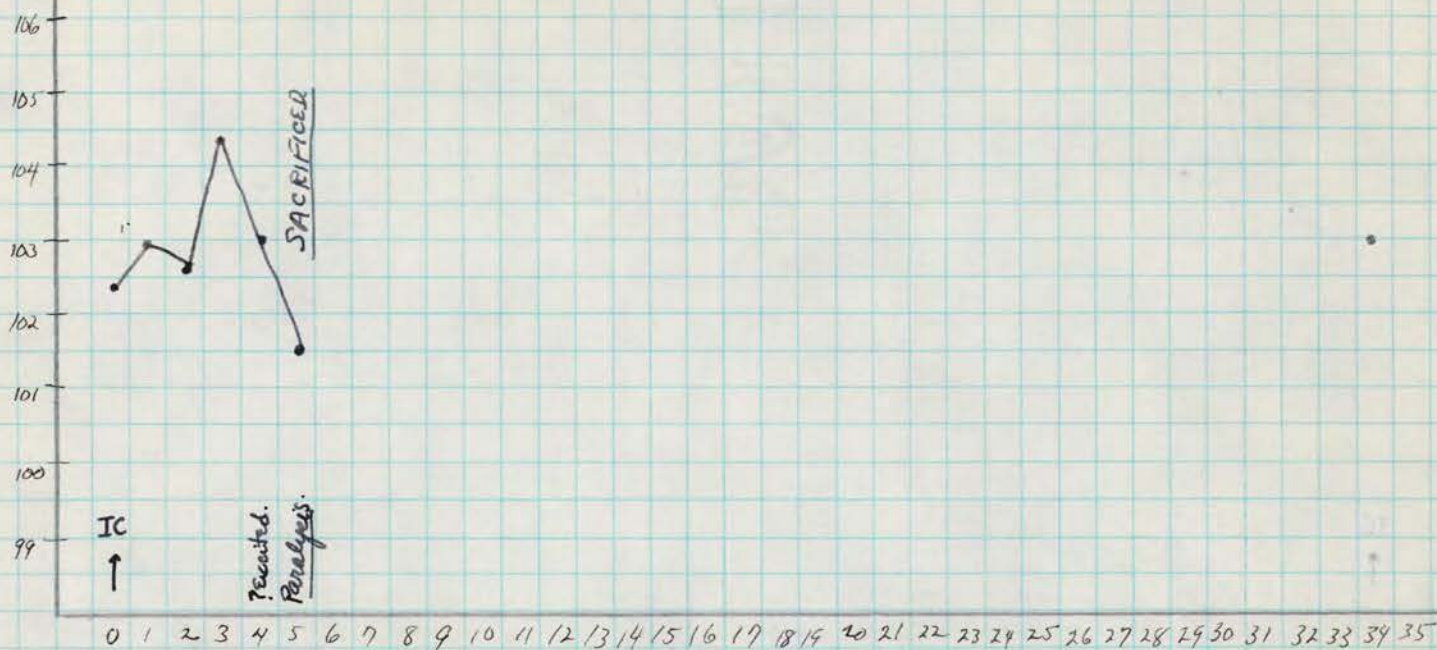
12/24/47. Cord-medulla of Rhesus #41 thawed; pooled with Rhesus #42 (also on) and frozen.

Histology - Polio; off. bulbs positive also.

FEB 11 1948

Generation II

Rh. # 127 - normal.



2-11-48 - inoc. with 1.0 cc. IC of 20% saline susp. of *Hopkins* 80T

2-15-48 - ? excited; no weakness or paralysis.

2-16-48 - Paralysis both lowers; weakness of back + both uppers; almost prostrate; voice very weak, but otherwise cranial nerves O.K.

Sacrificed (chloroform-exsanguination) - Autopsy: no gross TB.

TISSUE FOR PATHOLOGY: cord levels: medulla. (Z-A).

TISSUE FOR VIRUS: - cord. medulla pooled with cord. medulla of Rh. 1139 (ovr); total wts of combined = 11.8 gms; made up as 20% susp. in saline (with 48.0 cc saline), and frozen in 4 (20 cc) ampoules, marked 1, 2, 3, 4. Estimated amt = 48.0 cc. - Location. (B-3-7) Cult. ✓✓✓

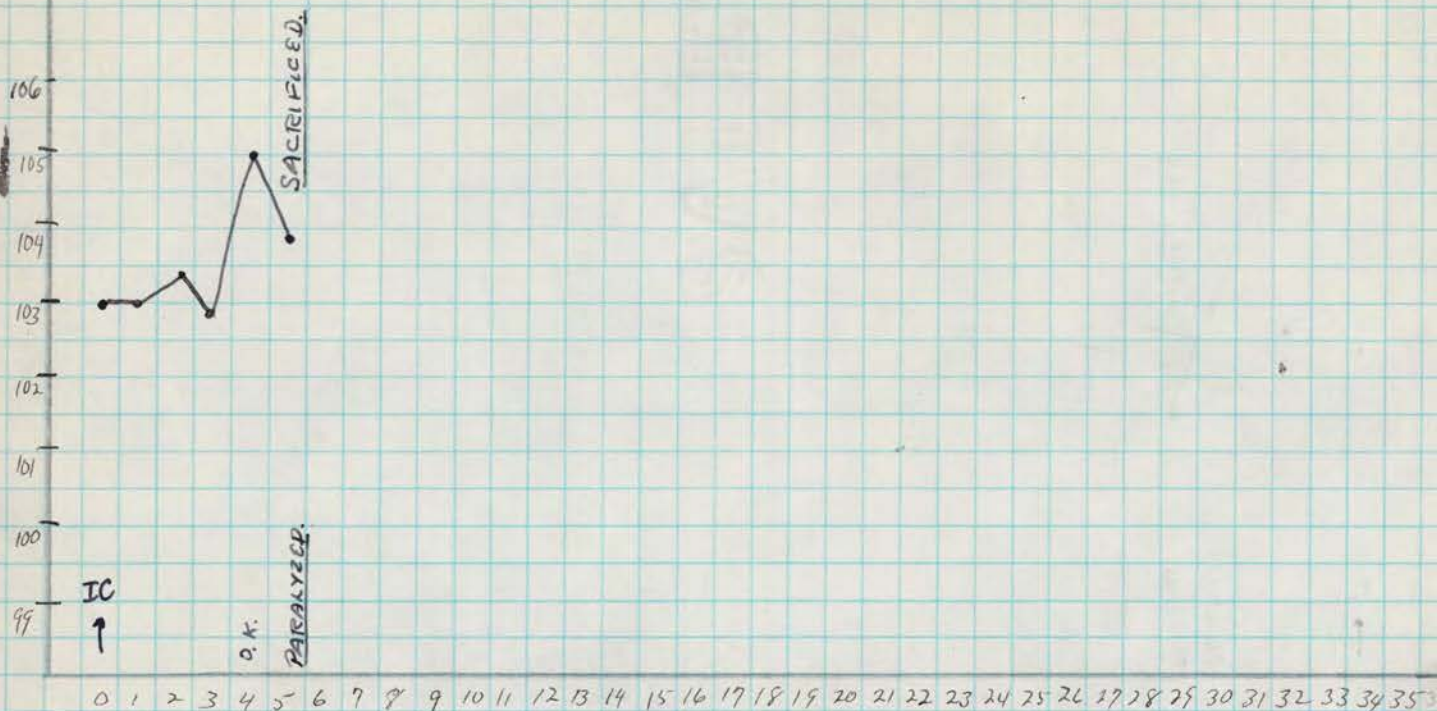
7-22-48 Viral #3 thawed and 0.4 cc removed for interference experiment with Lansing Polio; remainder refrozen. (B-3-7)

Histology - Polio

FEB 11 1948

STRAIN - Generation II

Rh-1139 - Splenectomized.



2-11-48. Inoc. 1.0 cc IC with 20% in saline of Hopkins - Gen 7.

2-15-48. O.K. Temp. = 105°.

2-16-48 AM Excited: mild tremors 2⁰⁰ P.M. - Tremors, excited; no paralysis. T=103.

5⁰⁰ p.m. paralysis rt. upper, weakness both lower. - Sacrificed (chloroform - Exsanguination.) - Autopsy: no gross tuberculosis.

TISSUE FOR HISTOPATHOLOGY: cord levels and medulla (Z.A.)

TISSUE FOR VIRUS: remainder of cord and medulla made up into 20% saline susp. with Rh. #127 cord (see over for details.)

Histology - Polio

TITRATION OF HUMAN POLIO STRAINS

3-16-48:

STRAIN (Gen. ii)

Virus used: (Gen. ii in monkeys) strain polio-20% in saline diluted in saline as indicated below.

Monkeys used: All normal rhesus monkeys.

Mixtures used: Dilutions as indicated below, made up in saline, kept at room temp. (78°F) for one hour; then into refrigerator overnight for 15 hrs.; then in ice bath during inoculations done on 3-17-48.

Inoculum: 0.5 cc. Intracerebrally per monkey. 3-17-48.

<u>DILUTION</u>	<u>MONKEY #</u>	<u>CLINICAL FINDINGS</u>	<u>HISTOLOGY</u>	<u>RESULT</u>
10^{-2}	Rh 220	P ₈	+	$\frac{3}{3}$
	Rh 221	P ₁₂	+	
	Rh 215	P ₇	+	
10^{-3}	Rh 222	P ₇	+	$\frac{2}{3}$
	Rh 223	O; K ₂₉ .	0	
	Rh 224	P ₈	+	
10^{-4}	Rh 225	P ₉	+	$\frac{2}{3}$
	Rh 226	O; K ₂₉ .	0	
	Rh 227	P ₈	+	
10^{-5}	Rh 228	O; K ₂₉ .	0	$\frac{0}{3}$
	Rh 229	O; K ₂₉ .	0	
	Rh 230	O; K ₂₉ .	0	

$10^{-4.0}$

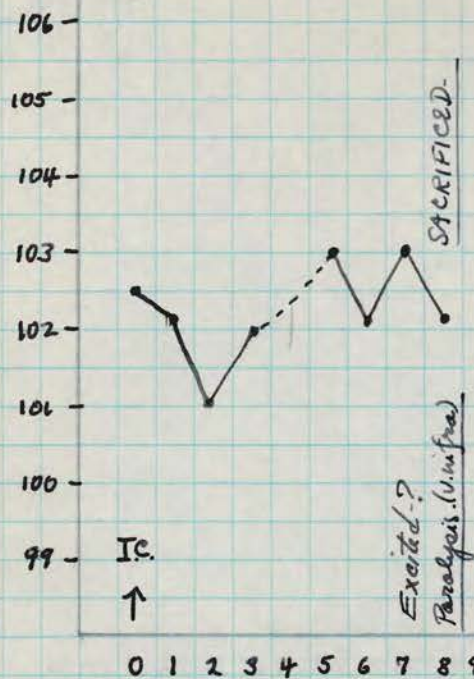
MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen. II)

Rh # 220

3-16-48. Dilutions in saline; incubated at room temp (75°) 10^{-2}
 for one hour; refrigerator overnight; ice bath until inoculated.
 0.5 cc. IC per monkey.



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 30 31 32 33 34 35

3-17-48 Inoc. I.C. with a 0.5% amt. of ^{a 1:100} 20% susp in saline - [redacted] virus Gen II

3-25-48 - Partial paralysis of left upper; marked weakness of both lowers and of right upper; coarse tremors.

Sacrificed: (chloroform-exsanguination) Autopsy: The gross the.

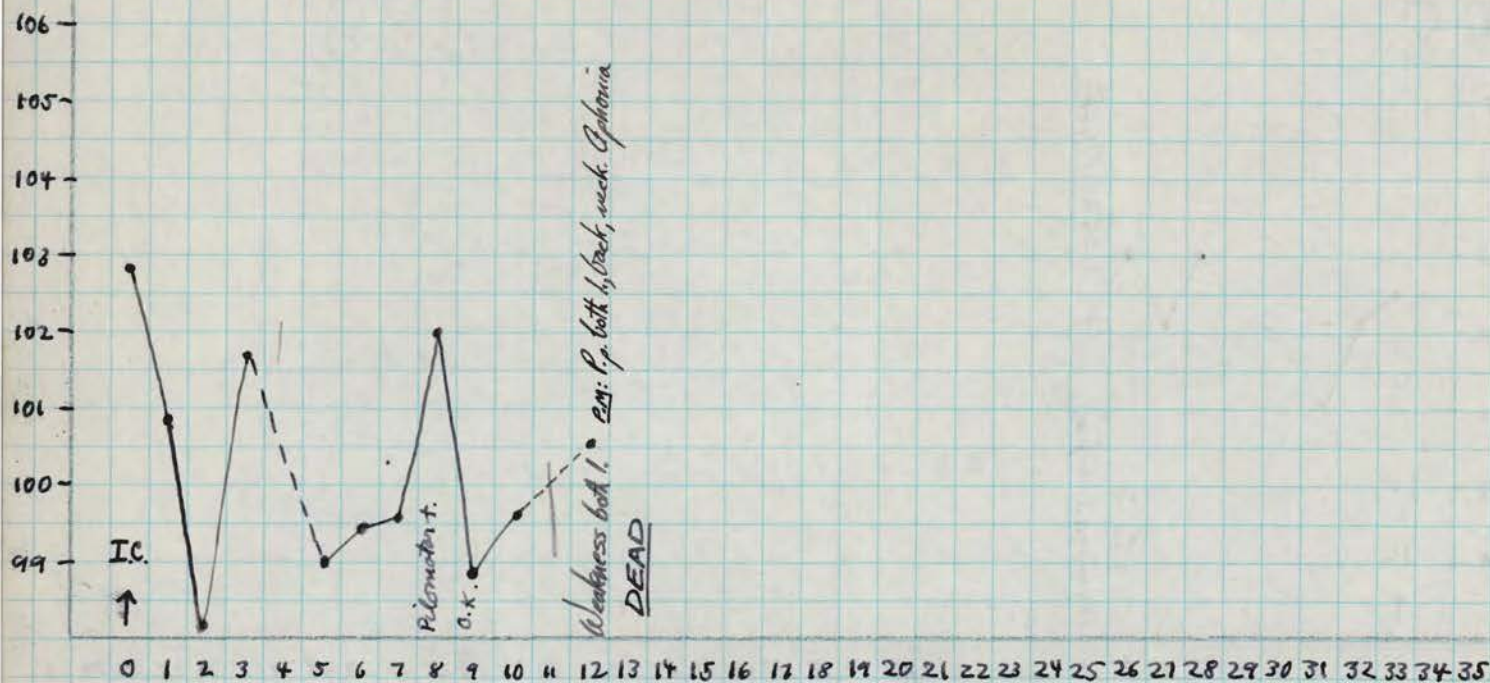
TISSUE FOR SECTION: Portions of lumbar and cervical cord (Z-A)

TISSUE FOR VIRUS: Remainder of cord-medulla frozen in a tinstoroid tube. Culture ✓✓ (2-8)

3-29-48: Cord-medulla thawed and made up as a 20% suspension in (24 cc.) sterile saline. Wt. of cord-medulla = 6.0 gms. ± 20 cc frozen in 2-20 cc amps. and stored. Culture ✓✓✓ (2-3-8)

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

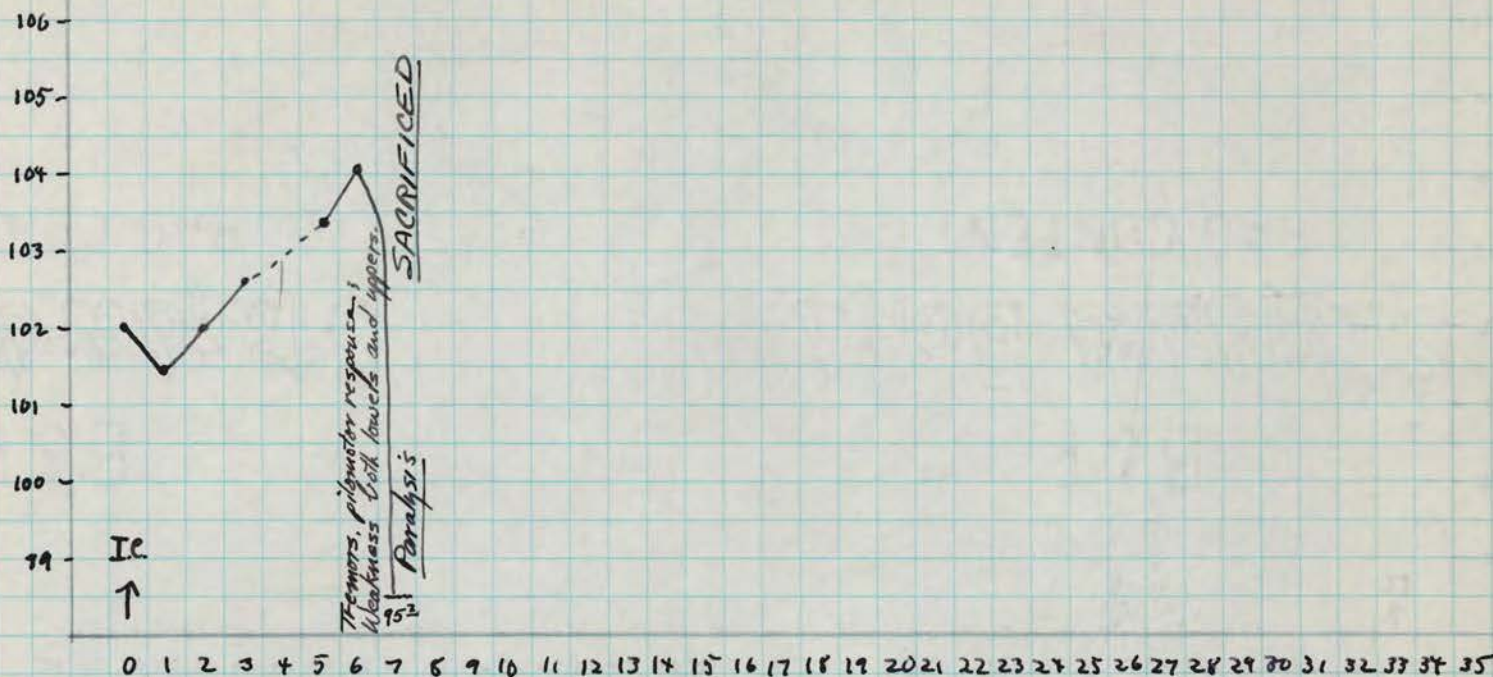
Rh⁺ 22110⁻²

- 3-17-48 Inoc. I.C. with a 0.5 cc amt. of ^{a 1:100} ~~20%~~ susp in saline - [REDACTED] Gen II VIRUS Gen II
- 3-19-48. T=98.2 (checked); monkey seems O.K. - 3/22/48 - T=99° check - monkey OK.
- 3-27-48: Severe diarrhea; otherwise seems O.K.
- 3-29-48: ^{AMP} Marked pilot motor response, tremors, & weakness of both lowers.
P.M.: Par. par. both lowers, back, and neck. Voice absent. Weakness of both uppers.
- 3-30-48: Found DEAD: Autopsy: No gross trc. No gross pathology found.
TISSUE FOR SECTION: Portions of lumbar, thoracic, cervical cord and medulla - (Z-A.)

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

RL# 215

10⁻²

3-17-48 Inoc. I.C. with 0.5^{cc} amt. of ^{a 1:100} 20% susp. in saline - [REDACTED] virus Gen II

3-24-48: Prostrate. Complete par. of all 4 extrem., back, and neck.

Sacrificed: (chloroform-exsanguination) Autopsy: No gross tbc.

TISSUE FOR SECTION: Cervical and lumbar cord sections taken (Z-A).

TISSUE FOR VIRUS: Remainder of cord and medulla pooled with that of RL# 222 to make a 20% susp. in (52cc.) sterile saline. Wt. of pooled cords-medullae = 13.4 gms. ± 45cc.

frozen in 4026cc amps. and 1-10cc amp (designated as Vials 2, 3, 4, 5 and 1 respectively) and stored. (B-4-8)

Culture: ✓✓

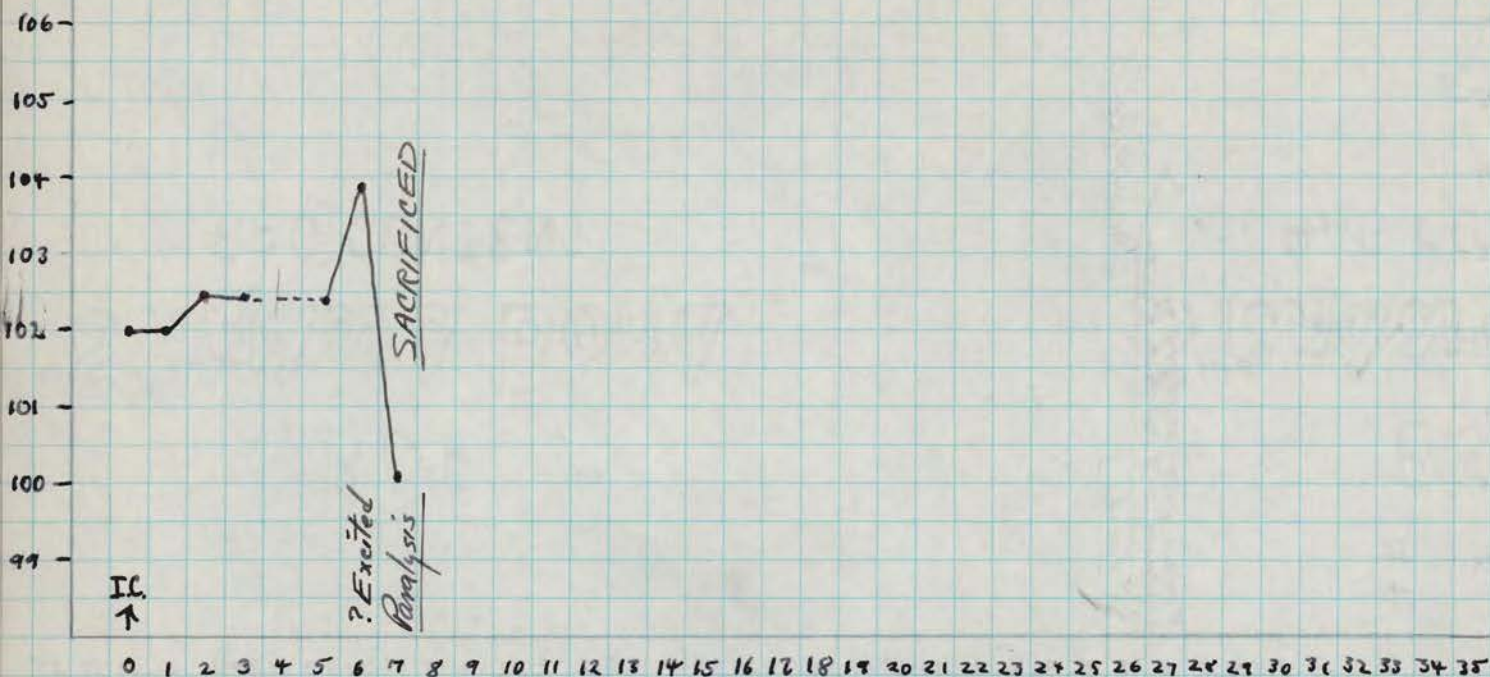
Histology - Polio

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

RL# 222

10-3



3-17-48: I-moc. IC with 0.5 cc of ^{a 1:1000} 20% susp. in saline - [REDACTED] virus-gen. ii
 3-24-48: Prostrate: Complete para. of all 4 extrem. and back. Weakness of neck.

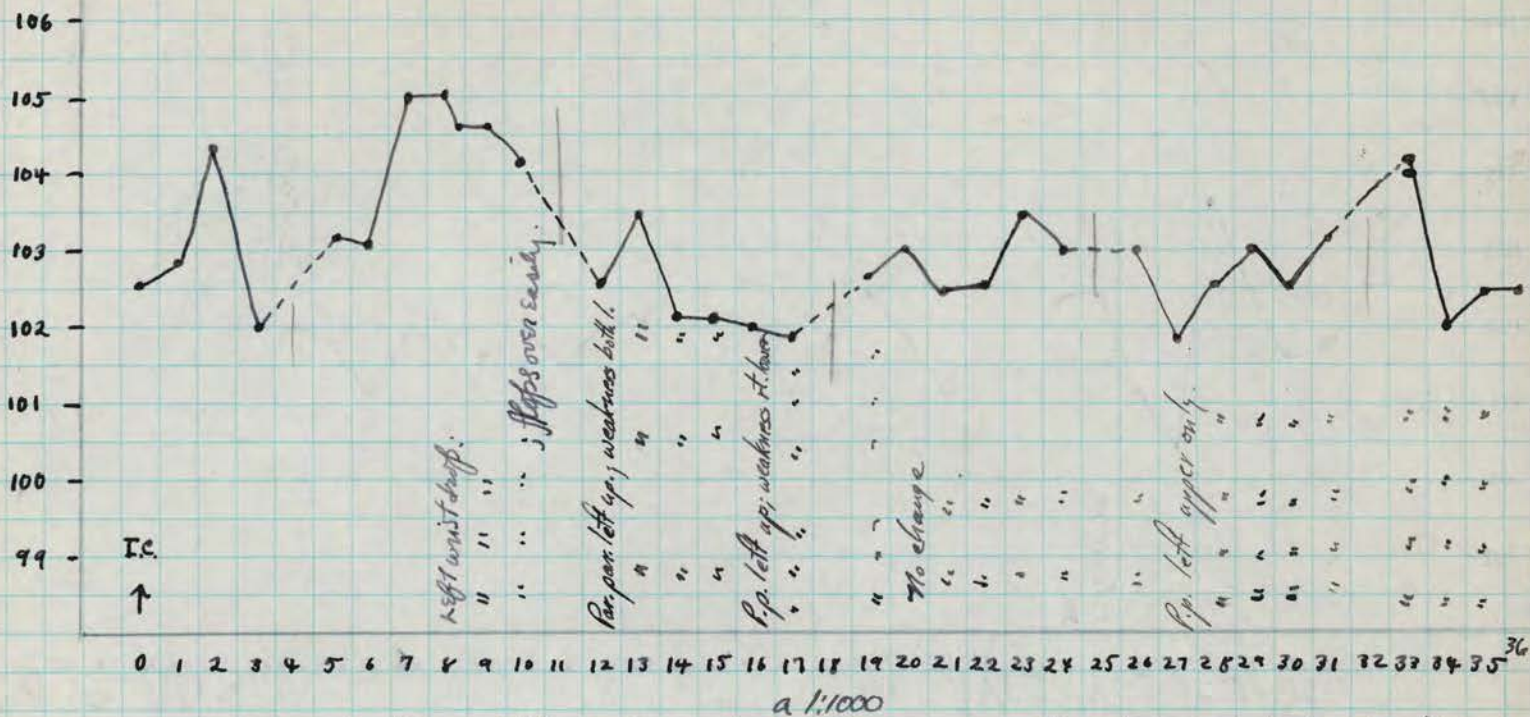
Sacrificed: (chloroform-exsanguination) Autopsy: No gross lbc.
TISSUE FOR SECTION: Cervical & lumbar sections of cord (Z-A)
TISSUE FOR VIRUS: Remainder of cord-medulla pooled with that of RL# 215 (overleaf).

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

Rh # 224

10-3



a 1:1000

3-17-48 Inoc. I.C. with 0.5% amt. of 20% susp in saline - [REDACTED] virus Gen II

3-25-48 AM and P.M. - left wrist drop; very excited;

3-26-48 AM Left wrist drop; very excited; marked pilomotor response.

3-27-48 Left wrist drop; clumsy; flops over very easily.

3-28-48 Left wrist drop; weak left shoulder; excited.

3-29-48 P.p. left upper; weakness of both lowers.

3-30-48 " " " " " and back, neck.

3-31-48 Unchanged.

4-1-48 " "

4-2-48 Seems improved: P.p. of left arm; weakness of right lower only.

4-5-48 No change.

4-10-48 Partial paralysis of L. upper; lowers seem O.K. today.

4-13-48 " " " " " only.

4-16-48 " " " " " " "

4-19-48 " " " " " " "

4-22-48 " " " " " " "

4-26-48 " " " " " " "

4-30-48 Same.

5-5-48 " "

5-8-48 Part. Par. left upper only.

5-12-48 Same.

5-21-48 " "

6-1-48 " "

6-6-48 weakness left upper

6-17-48 no change

7-6-48 " "

7-17-48 weak left upper

7-22-48 No change

8-5-48 Weakness left upper

8-20-48 Part. Par. left upper.

8-21-48 Challenged by inoc. I.C. of 1.0% of 20% Hopkins Virus (Gen II) using Rh. 732 as a simultaneous control. (g.v.)

8-28-48 serum of 6-4-48 thawed & 4% removed for Sanering N.T.

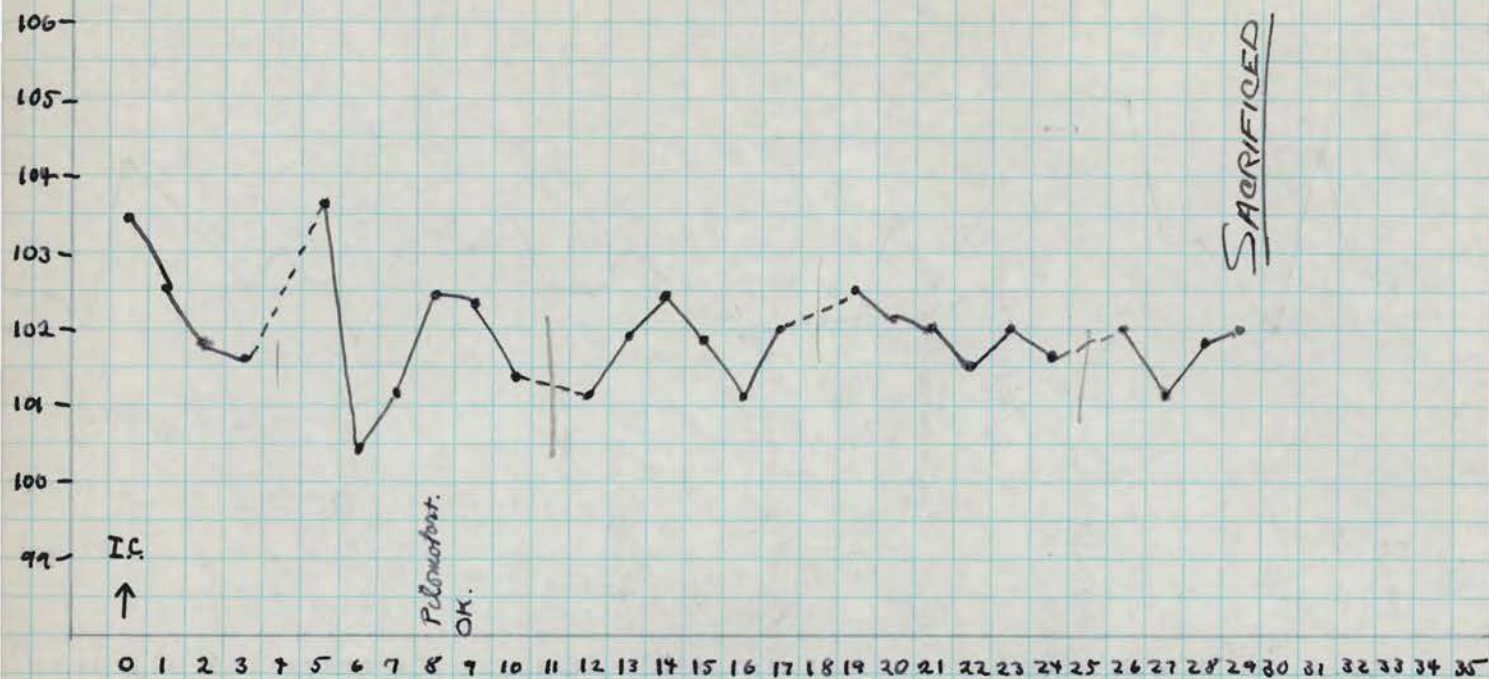
6-9-48 -
Blood from
serum

MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen II)

RH# 223

10⁻³

3-17-48 Inoc I.C. with 0.5% amt. of ^{a 1:1000} ~~10⁻⁴~~ susp in saline. [redacted] virus Gen II

4-15-48: SACRIFICED (chloroform-exsanguination) Autopsy. No the.

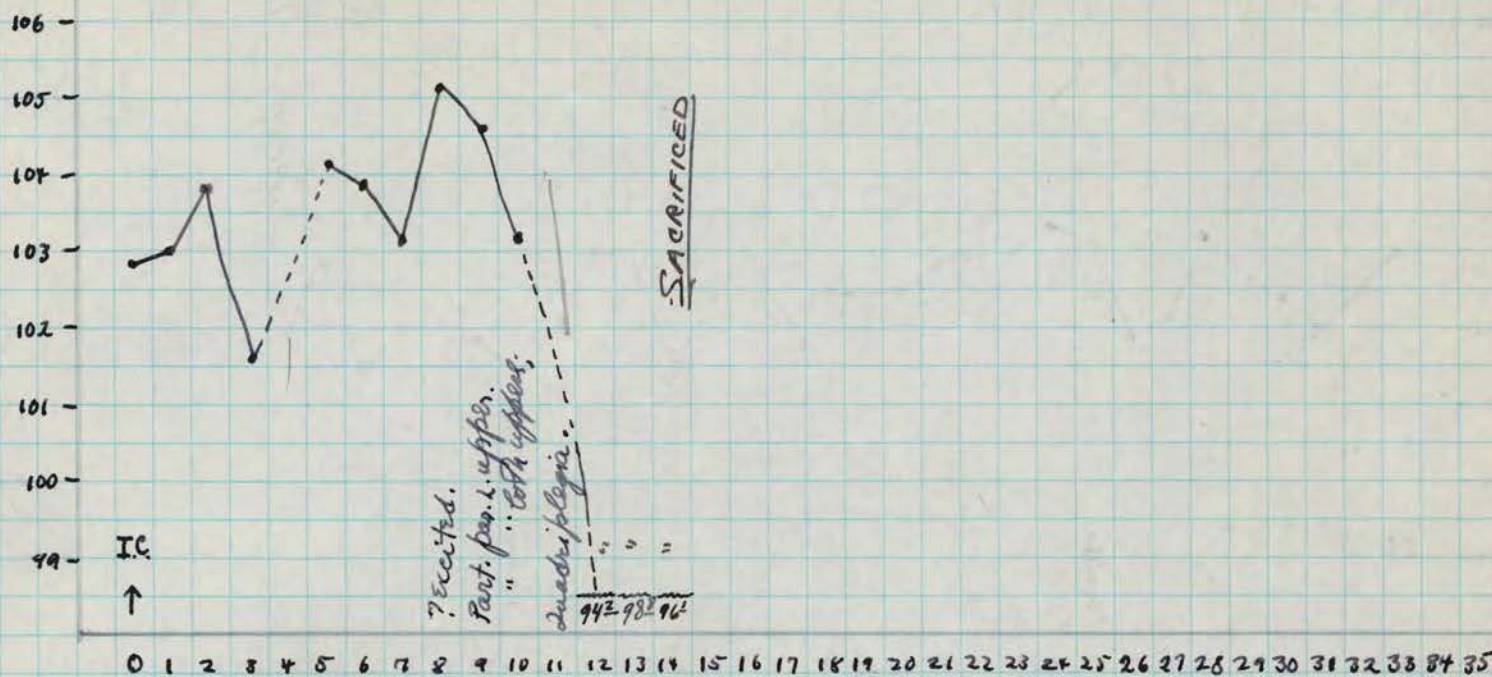
TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY:NO POLIO

MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen II)

Rh⁺ 22510⁻⁴

- a 1:10,000
- 3-17-48 Inoc I.C. with 0.5% amt of ~~20%~~ susp in saline. - [redacted] virus Gen II
- 3-26-48 - A.M. Coarse tremors: pelomotor H.H.; Easily fatigued.
P.M. Partial paralysis L. upper; weakness R.V. + both L. extremities.
- 3-27-48 - Partial paralysis of all 4 extremities; back very weak.
- 3-28-48 - Quadriplegia; voice O.K.
- 3-29-48: No change.
- 3-30-48: " " , except voice absent.
- 3-31-48: Same - moribund. (Revised 2x by art. resp.)
- Sacrificed: (chloroform-exsanguination) Autopsy;
- TISSUE FOR SECTION: Portions of lumbar, thoracic, cervical cord. (2A).

Histology - Polio

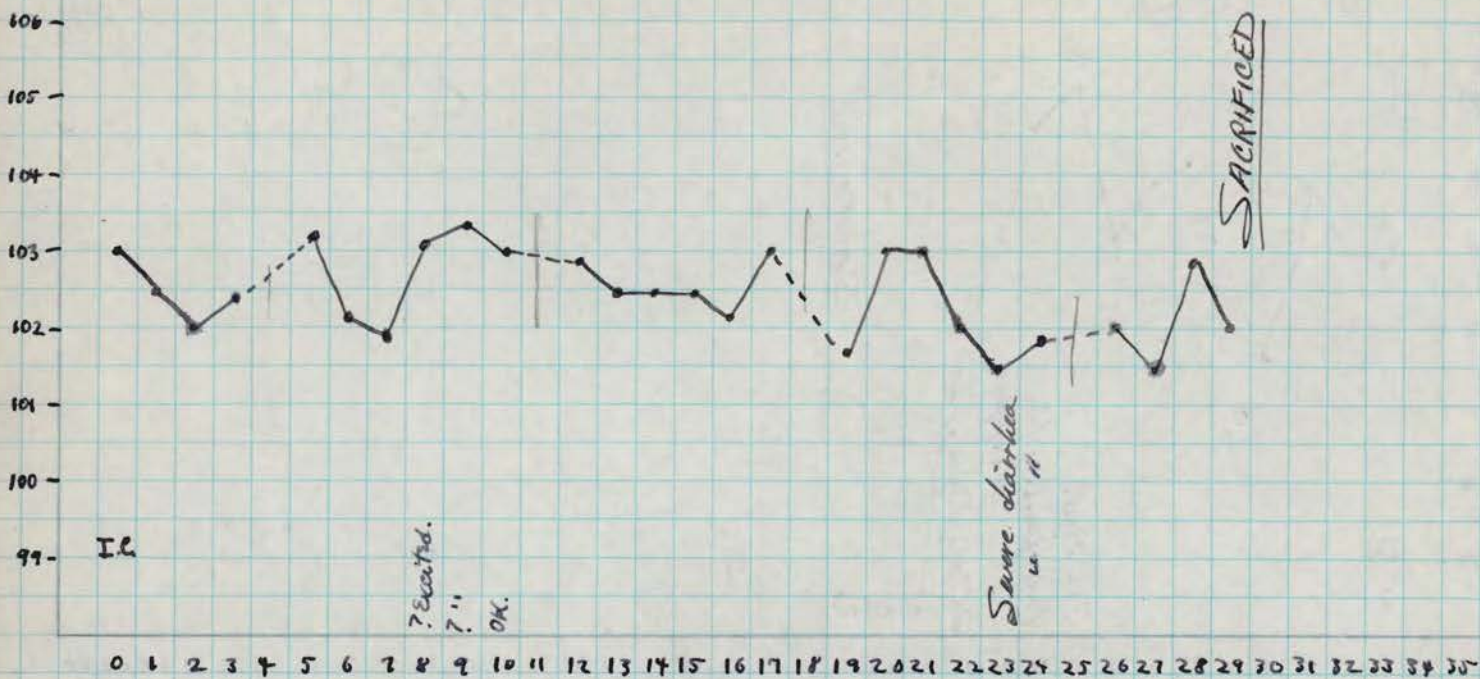
MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen II)

Rh⁺ 226

10⁻⁴



a 1:10,000
 3-17-48 Inoc I.C. with 0.5 cc of ~~20%~~ susp in saline. - virus Gen II
 4-15-48: SACRIFICED: (chloroform-exsanguination) Autopsy: No gross obs.
 TISSUE FOR SECTION: Hypothalamus, thalamus, midbrain,
 pons, medulla, cord levels (Z-A)

HISTOLOGY: NO POLIO

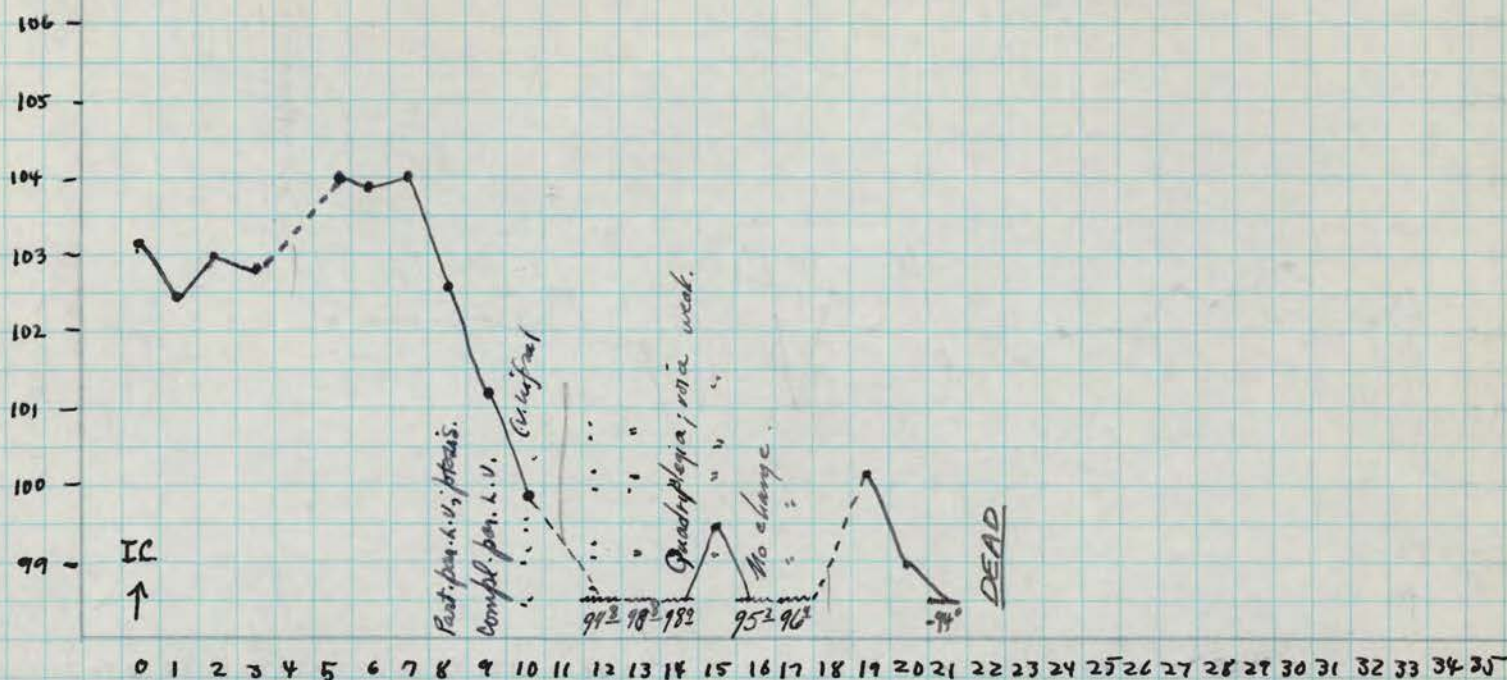
MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen II)

RL# 227

10-4



- 3-17-48 Inoz. I.C. with 0.5 cc amt. of ^{a 1:10,000} ~~20%~~ susp in saline. - ~~Gen II~~ virus Gen II
- 3-25-48. - Partial paralysis left upper; ptosis; weakness rt. upper and both lowers.
- 3-26-48. - Complete paralysis left upper; part. par. R. upper & both lowers; ptosis
- 3-27-48. - Complete paralysis both lowers & left upper; p. p. Right upper; ptosis; voice o. k.
- 3-28-48. - Unchanged.
- 3-29-48. - No change.
- 3-30-48. - " "
- 3-31-48. - Quadriplegia. Voice weak. Alert expression; moves head well.
- 4-1-48. - No change. Retains some ability to grasp (both hands - fingers).
- 4-2-48. - " "
- 4-3-48. - " "
- 4-5-48. - " "
- 4-6-48. - Seems weaker. Eats less well. Neck & head movements not so active.
- 4-7-48. - Worse. Moves head only slightly. Resp. rapid and shallow - diaphragmatic.
- 4-8-48. - Found DEAD in a.m.

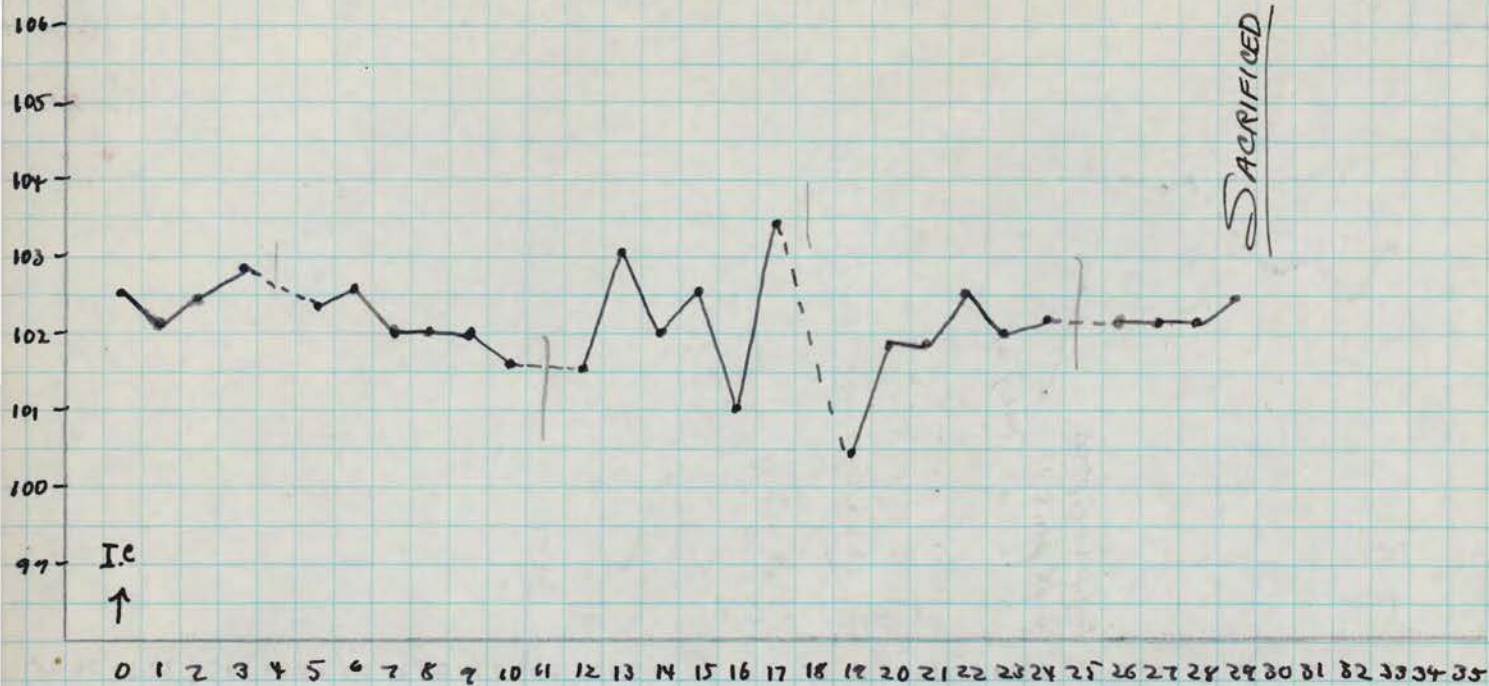
Autopsy: No gross th.
 TISSUE FOR SECTION: Portions of cervical, thoracic,
 lumbar cord. (Z-A)

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

RL# 228

10-5



3-17-48 Inoc. I.C. with 0.5 cc amt of $1:100,000$ susp in saline. [REDACTED] virus Gen II
 4-15-48 SACRIFICED: (chloroform-anaesthesia) Autopsy: No gross lbo.
 TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain,
 pons, medulla, cord levels (2-A)

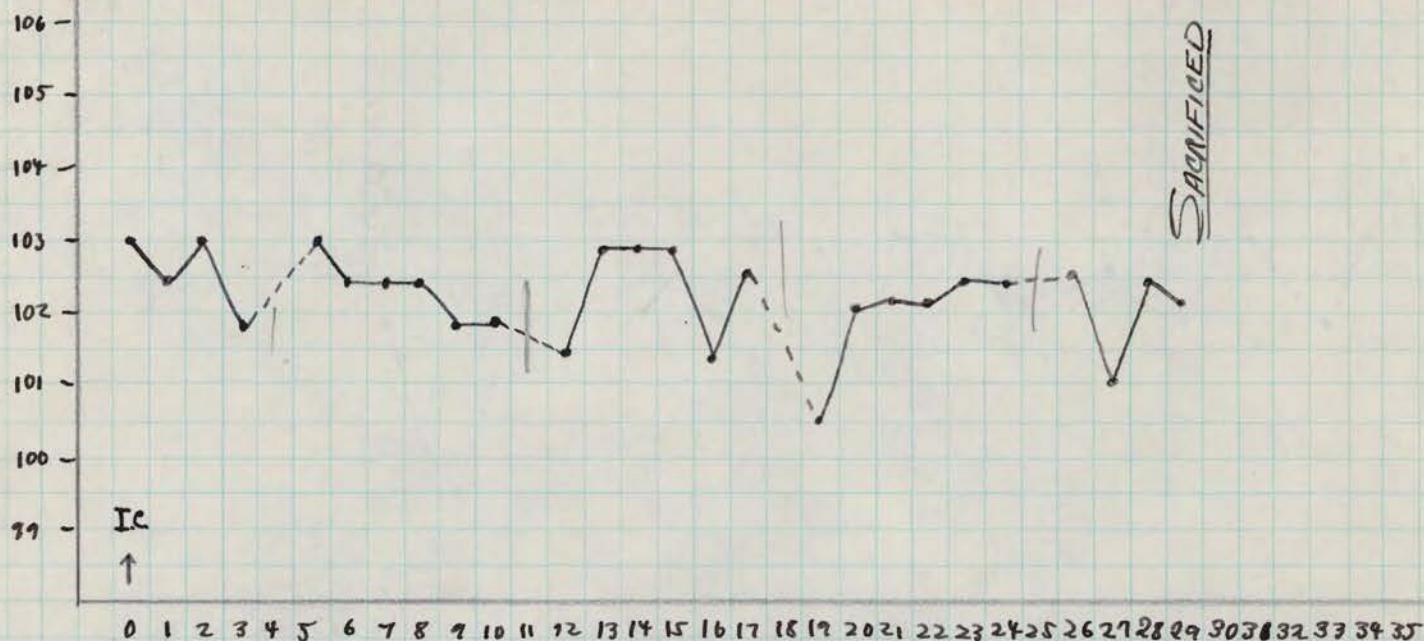
HISTOLOGY: NO POLIO

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen II)

RL# 229

10⁻⁵



3-17-48 Inoc. I.C. with 0.5 cc amt. of 20% susp in saline. - [REDACTED] virus Gen II
 4-15-48: SACRIFICED: (chloroform - exsanguination) Autopsy: No gross the.
 TISSUE FOR SECTION - Hypothalamus, thalamus, mid brain,
 pons, medulla, cord levels (2-A)

HISTOLOGY: NO POLIO

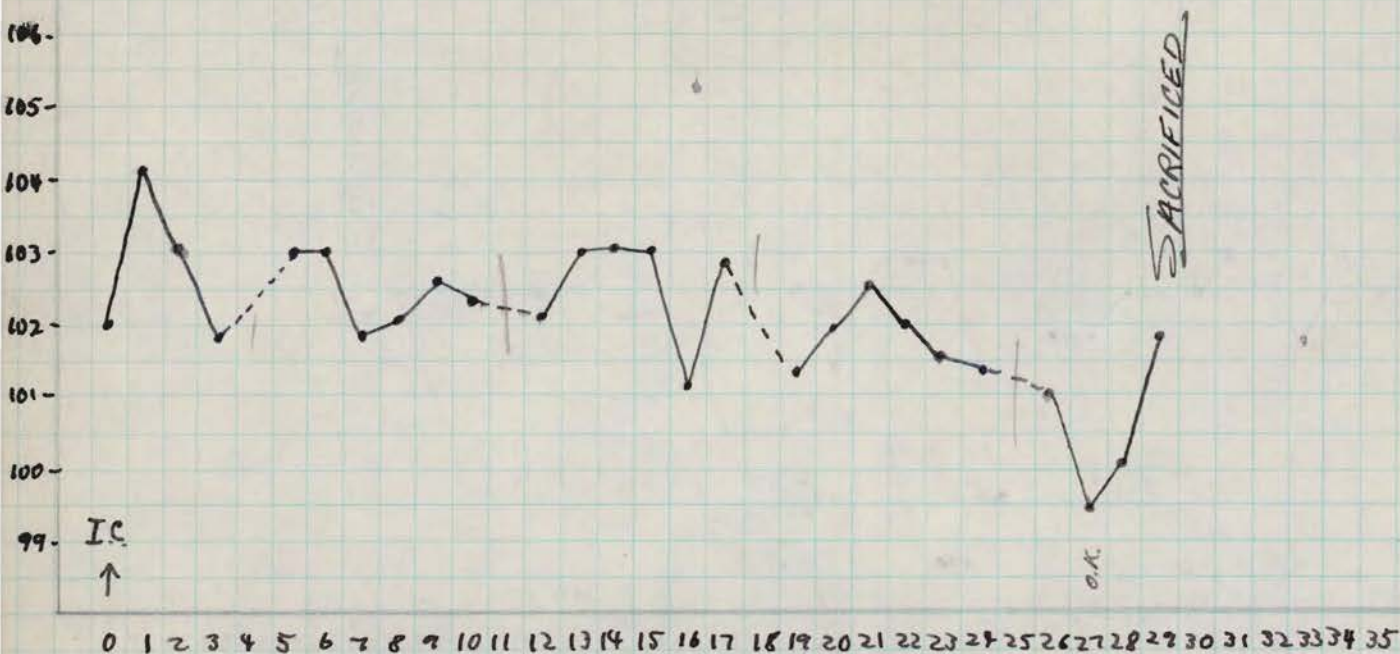
MAR 17 1948

TITRATION OF

STRAIN POLIO (Gen II)

Rh # 230

10-5



3-17-48 Inoc I.C. with I.C. 0.5% amt of ~~20%~~ susp in saline. [REDACTED] virus Gen II

4-15-48: SACRIFICED: (chloroform-exsanguination) Autopsy: No gross lbc.

TISSUE FOR SECTION: - Hypothalamus, thalamus, midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY:NO POLIO

NEUTRALIZATION TESTS IN MONKEYS

STRAIN POLIO

VS.

SERA

APR 6 1948

VIRUS USED: Generation II of [redacted] strain polio - titrated on 3-16-48.

SERA USED: two sera from [redacted]

ACUTE: :- 8/26/47. - (3rd day of illness)

CONVALESCENT: 11/25/47. - (94th day ...)

INCUBATION: Serum-virus mixtures at room temp. (75°F) for one hour. Then into refrigerator overnight (15 hours); then to an ice-bath during the inoculation procedure on 4-7-48.

MONKEYS: Rhesus; 3 per indicated final dilution.

INOCULUM: 0.5 cc. intracerebrally, serum-virus, and saline-virus control — as indicated below.

FINAL VIRUS CONCENTRATIONS:

	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵
<u>SALINE</u> <u>CONTROL</u>		Rh. 264 P ₆	Rh. 266 P ₁₁	Rh. 269 P ₆	Rh. 272 O; K ₂₈ ○
		Rh. 265 P ₆	Rh. 267 P ₉	Rh. 270 P ₁₂	Rh. 273 O; K ₂₈ ○
		Rh. 1646 P ₁₁	Rh. 268 O; K ₂₈ ○	Rh. 271 P ₈	Rh. 274 O; K ₂₈ ○
<u>ACUTE</u> <u>SERUM</u> (3 rd day)	Rh. 252 O; K ₂₈ ○	Rh. 255 O; K ₂₈ ○	Rh. 258 O; K ₂₇ ○	Rh. 261 O; K ₂₇ ○	
	Rh. 253 O; K ₂₈ ○	Rh. 256 O; K ₂₇ ○	Rh. 259 D ₂ ○	Rh. 262 O; K ₂₇ ○	
	Rh. 254 P ₂₀	Rh. 257 O; K ₂₈ ○	Rh. 260 O; K ₂₇ ○	Rh. 263 O; K ₂₇ ○	
<u>CONVALESCENT</u> <u>SERUM</u> (94 th day)	Rh. 240 O; K ₂₈ ○	Rh. 243 O; K ₂₇ ○	Rh. 246 O; K ₂₇ ○	Rh. 249 O; K ₂₆ ○	
	Rh. 241 O; K ₂₈ ○	Rh. 244 O; K ₂₇ ○	Rh. 247 O; K ₂₇ ○	Rh. 250 O; K ₂₆ ○	
	Rh. 242 O; K ₂₈ ○	Rh. 245 O; K ₂₇ ○	Rh. 248 O; K ₂₇ ○	Rh. 251 O; K ₂₆ ○	

10^{-4.3}

10^{-0.7}

10^{-0.5}

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 264.

Saline control - 10^{-2}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	T=102°: A.M.: Par. par. both uppers. Weakness both lowers, back, neck, and voice. P.M.: Comp. par. rt. upper. Par. par. left upper. Par. par. both lowers.

SACRIFICED: (chloroform exsanguination) Autopsy: No the.

TISSUE FOR SECTION: Portions of lumbar and cervical cord (2-A)

TISSUE FOR VIRUS: Remainder of cord-medulla pooled with that of Rh #265 to make a 20% susp. in (36 cc.) sterile saline. Wt. pooled cords-medullae = 8.5 gms. ± 33 cc frozen in 3-20cc and 1-10cc amps. and stored.

Culture: ✓✓✓

B-7-2

Histology - Polio acute

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 265-

Saline control 10^{-2}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	T=103°. A.M.: Pilomotor response; coarse tremors. Weakness of both uppers, and lowers, back, & neck. P.M.: Par. par. both lowers. Definite left facial (not found in a.m.) involving lower half of face only. Weakness both uppers, back, and neck. Voice now weak. SACRIFICED: (chloroform-exsanguination) Autopsy: No gross thc. TISSUE FOR SECTION: Portions of lumbar & cervical cord (2A) TISSUE FOR VIRUS: Remainder of cord-medulla pooled with that of Rh #264 (see overleaf)

4-7-48 0 ✓

4-8-48 1 ✓

4-9-48 2 ✓

4-10-48 3 ✓

4-11-48 4 ✓

4-12-48 5 ✓

4-13-48 6

T=103°. A.M.: Pilomotor response; coarse tremors. Weakness of both uppers, and lowers, back, & neck.
P.M.: Par. par. both lowers. Definite left facial (not found in a.m.) involving lower half of face only. Weakness both uppers, back, and neck. Voice now weak.

SACRIFICED: (chloroform-exsanguination)

Autopsy: No gross thc.

TISSUE FOR SECTION: Portions of lumbar & cervical cord (2A)

TISSUE FOR VIRUS: Remainder of cord-medulla pooled with that of Rh #264 (see overleaf)

Histology - Polio acute

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION TEST

Rh # 1646 (sporectomized)

Saline control 10⁻²

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	T = 103% ✓
4-16-48	9	✓
4-17-48	10	T = 101% ✓
4-18-48	11	Prostrate. Quadriplegia. Diaphragmatic breathing. Able to move head slightly. Aphonia.
4-19-48	12	Found DEAD in cage. Autopsy: Gross pulmonary, etc. & multiple liver foci grossly, and etc. mesenteric adenitis.

TISSUE FOR SECTION: Hypothalamus, thalamus, midbrain, pons, medulla, cord levels.

HISTOLOGY: Cord levels show acute neuronophagia and PV infiltration, most marked in cervical cord. Medulla, midbrain, thalamus all show acute neuronophagia and perivascular infiltration.

DIAGNOSIS:POLIO (acute)

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 266

Saline control 10^{-3}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	T=105 ² Exerted.
4-16-48	9	Exerted, pilomotor resp; Weakness of left lower? PM: T=104 ² Same. Very clumsy.
4-17-48	10	T=104 ² No change.
4-18-48	11	Par. par. both uppers. Marked pilomotor response.
4-19-48	12	" " " " Weakness both lowers. Marked pilomotor response. Coarse tremors.
4-20-48	13	Par. par. both uppers, rt. lower. Weakness left l., back, neck.
4-21-48	14	Comp. par. right up; p.p. both lowers; Weakness left "p., back, neck.
4-22-48	15	No change. Voice o.k.
4-23-48	16	No change.
4-24-48	17	" "
4-25-48	18	Same
4-26-48	19	"
4-27-48	20	"
4-28-48	21	Return of ability to grasp - left lower. Otherwise, same.
4-29-48	22	Same
4-30-48	23	"
5-1-48	24	Still has part. par. both lowers; and of both uppers. -
5-2-48	25	"
5-3-48	26	"
5-4-48	27	"
5-5-48	28	"
5-6-48	29	Par. par. both lowers, and rt. upper. Weakness only left upper.
5-7-48	30	" " " "
5-8-48	31	same
5-9-48	32	"
5-10-48	33	"
5-21-48		Par. par. rt. upper only. Weakness of both lowers.
6-1-48		No change.
6-6-48		No change.
6-17-48		No change.
7-6-48		" "
7-17-48		No change
7-22-48		No change
8-5-48		Comp. par. rt. upper; Part. Par. other 3 extremities
8-20-48		Comp. par. rt. upper. & Part. Par. both lowers; Weak left upper

6-9-48 - Bled for serum.

7-8-48 - Bled (40%) for serum ± 3ml.

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 267.

Saline control

10⁻³

DATE DAY REMARKS

4-7-48 0 ✓

4-8-48 1 ✓

4-9-48 2 ✓

4-10-48 3 ✓

4-11-48 4 ✓

4-12-48 5 ✓

4-13-48 6 ✓

4-14-48 7

A.M. Weakness left upper and both lowers, and back. Pilomotor response.
P.M. -

4-15-48 8

F Weakness both lowers and uppers, back, neck. Mod. ptosis. Pilomotor response.

4-16-48 9

Part. Paralysis of both uppers & lowers. Weakness of back and neck. Voice weak.

4-17-48 10

Quadriplegia. Voice very weak.

4-18-48 11

" " " " " " Moves head slightly.

4-19-48 12

"

4-20-48 13

"

4-21-48 14

A.M. "

P.M.: Found DEAD. Autopsy: No gross lbc.
TISSUE FOR SECTION - 2 pieces from each of cervical and
lumbar sections of cord. (2-A)

Histology - Polio acute

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 268

Saline control 10^{-3}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	T=103 ⁶ ✓
4-16-48	9	✓
4-17-48	10	T=103 ³ ✓
4-18-48	11	✓
4-19-48	12	✓ T=102°
4-20-48	13	T=101 ⁸ ✓
4-21-48	14	T=102 ² ✓
4-22-48	15	T=101 ⁸ ✓
4-23-48	16	T=103 ⁴ ✓
4-24-48	17	T=101 ⁴ ✓
4-25-48	18	✓
4-26-48	19	T=102 ² ✓
4-27-48	20	T=101 ⁸ ✓
4-28-48	21	T=101 ⁸ ✓
4-29-48	22	T=103° ✓
4-30-48	23	T=103 ⁴ ✓
5-1-48	24	T=102 ⁴ ✓
	25	✓
5-3-48	26	T=103 ⁴ ✓
5-4-48	27	T=102 ⁸ ✓
5-5-48	28	T=103 ² ✓

Diarrhea.

SACRIFICED (chloroform-anaesthesia)TISSUE FOR SECTION- Thalamus, hypothalamus, midbrain,
pons, medulla, cord levels (Z-A)

Histology - No Polio

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 269.

Saline control 10⁻⁴

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	Right wrist drop. Weakness of right upper.
4-14-48	7	" " " persists. Also weakness of right upper. Is definitely more clumsy today than on 4-13-48. Eff. flops over.
4-15-48	8	No change
4-16-48	9	no change
4-17-48	10	T=100%. No change today.
4-18-48	11	Same.
4-19-48	12	"
4-20-48	13	T=100%. No change.
4-21-48	14	T=101. Wrist drop (right). Weakness rt. upper. Disincl. to climb.
4-22-48	15	T=98% " " " " " + generally.
4-23-48	16	T=100% Right wrist drop only questionable today. Cannot grasp fingers (flexion). Poor coordination in use of right upper.
4-24-48	17	T=100% No change.
4-25-48	18	Weakness only of rt. wrist. -
4-26-48	19	T=100% " of rt. wrist + inability to grasp fingers (rt.). (ATS + H.H.)
4-27-48	20	T=99% Becoming more generally weak & passive. Otherwise same.
4-28-48	21	Found DEAD in a.m.

Autopsy: Gross inflammation of pelvic peritoneum; massive adhesions of omental surfaces to parietal and visceral pelvic peritoneum. Pelvic peritonitis.
(No evidence of bowel perforation was found). Thorax, cervical vertebral region, - negative.

TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, cord levels. Also myocardium, and main nerve trunks of brachial plexuses from both right & left sides. (2-A)

(tissue putaceous when cut)

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh. # 270-

Saline control

10-4

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	T=102.5 ✓
4-16-48	9	✓
4-17-48	10	T=104.8 Excited, pilomotor response.
4-18-48	11	Coarse tremors; marked pilomotor response. Very clumsy.
4-19-48	12	Par. par. left upper. Weakness other 3 extremities. Coarse tremors; marked pilomotor response.
4-20-48	13	Par. par. both lowers, left upper. Weakness right upper, back, neck. Coarse tremors.
4-21-48	14	Comp. par. both lowers. Par. par. both up. Weak neck, back.
4-22-48	15	<u>Quadruplegia</u> - moribund. <u>SACRIFICED</u> (chloroform-exsanguination) Autopsy - the gross the. TISSUE FOR SECTION - 2 pieces from each of cervical & lumbar cord levels (2-A)

HISTOLOGY: Lumbar + cervical cord show severe acute neuronophagia, with dense PV cuffing in cervical and right PV cuffing in lumbar cord.

DIAGNOSIS: POLIO (acute)

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 271

Saline control 10⁻⁴

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	Clumsy. Disinclined to climb. No definite focal weakness.
4-15-48	8	Par. Paralysis of both uppers. Weakness both lowers, back, neck.
4-16-48	9	Par. Paralysis of both uppers & lowers. Weakness of back & neck. Weak voice.
4-17-48	10	Quadriplegia. Voice only moderately weak.
4-18-48	11	"
4-19-48	12	" Aphonia.
4-20-48	13	"
4-21-48	14	Found <u>DEAD</u> in a.m. Autopsy: No gross the.

TISSUE FOR SECTION: 2 sections each from lumbar and cervical areas of cord. (Z-A)

HISTOLOGY: severe acute neurophagia - lumbar + cervical cord.

DIAGNOSIS: POLIO (acute)

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh# 272-

Saline control 10^{-5}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	T=102.3 ✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓ T=101.6
4-20-48	13	✓
4-21-48	14	✓
4-22-48	15	✓ T=100.4
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (Z-A)

Histology - No Polio

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

R_h# 273.Saline control 10^{-5}

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓ T = 103.3°
4-20-48	13	✓
4-21-48	14	✓
4-22-48	15	✓ T = 102°
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus, midbrain,
 pons, medulla, cord levels (I-A)

HISTOLOGY: NO PUWID

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

Rb # 274

Saline control 10^{-5}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	$T=101^{\circ}$ ✓
4-20-48	13	✓
4-21-48	14	✓
4-22-48	15	$T=100^{\circ}$ ✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, (cord levels 1-4)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 240.

Convalescent serum

10⁻¹

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)TISSUE FOR SECTION - thalamus, hypothalamus,
midbrain, pons, medulla, cord (levels (Z-A)).HISTOLOGY:

NO POXIO

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION TEST

Rh# 241

Convalescent serum

10⁻¹

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)

Autopsy: No gross bc.
 TISSUE FOR SECTION — Thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (2-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

R_h # 242.

Convalescent serum

10⁻¹

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (1-A).

HISTOLOGY:NO POLIO

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

Rb # 243-

Convalescent serum

 10^{-2}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓ SACRIFICED (chloroform-exsanguination)
		TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, medulla, cord levels (Z-A)

4-7-48

0

✓

4-8-48

1

✓

4-9-48

2

✓

4-10-48

3

✓

4-11-48

4

✓

4-12-48

5

✓

4-13-48

6

✓

4-14-48

7

✓

4-15-48

8

✓

4-16-48

9

✓

4-17-48

10

✓

4-18-48

11

✓

4-19-48

12

✓

4-20-48

13

✓

4-21-48

14

✓

15

✓

16

✓

17

✓

18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

26

✓

5-4-48

27

✓

SACRIFICED (chloroform-exsanguination)

TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh# 244

Convalescent serum

10⁻²

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloro.-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus, midbrain,
 pons, medulla, cord levels (Z-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

Rb# 245

Convalescent serum

10⁻²

DATE DAY REMARKS

4-7-48 0 ✓

4-8-48 1 ✓

4-9-48 2 ✓

4-10-48 3 ✓

4-11-48 4 ✓

4-12-48 5 ✓

4-13-48 6 ✓

4-14-48 7 ✓

4-15-48 8 ✓

4-16-48 9 ✓

4-17-48 10 ✓

4-18-48 11 ✓

4-19-48 12 ✓

4-20-48 13 ✓

4-21-48 14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓

20 ✓

21 ✓

22 ✓

23 ✓

24 ✓

25 ✓

26 ✓

5-4-48 27 ✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (2-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 246-

Convalescent serum

10⁻³

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus, midbrain,
 pons, medulla, cord levels (2-A)

HISTOLOGY: NO POLIO

APR 7

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 247

Convalescent serum

10⁻³

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus,
 midbrain, pons, ⁽³⁾medulla, ⁽²⁰⁾cord levels (2-A)

HISTOLOGY:

Above sections negative except Thalamus which shows mild
 PV cuffing of 4 vessels; no neuronal or interstitial changes

DIAGNOSIS: NO POLIO.

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

APR 7 1948 Rh# 248.

Convalescent serum

10⁻³

DATE DAY REMARKS

4-7-48 0 ✓

4-8-48 1 ✓

4-9-48 2 ✓

4-10-48 3 ✓

4-11-48 4 ✓

4-12-48 5 ✓

4-13-48 6 ✓

4-14-48 7 ✓ (Mod. distended abdomen)

4-15-48 8 ✓

4-16-48 9 ✓

4-17-48 10 ✓

4-18-48 11 ✓

4-19-48 12 ✓

4-20-48 13 ✓

4-21-48 14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓

20 ✓

21 ✓

22 ✓

23 ✓

24 ✓

25 ✓

26 ✓

5-4-48 27 ✓ Passive, weak, sickly, hangs head. Emaciated. T=100°.
 T=96°. Moribund. (SACRIFICED - chloroform-asanguination)
 TISSUE FOR SECTION - Hypothalamus, thalamus, forebrain,
 pons, medulla, 'cord levels' (Z-A)

HISTOLOGY:NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Ph # 249

Convalescent serum 10^{-4}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
5-3-48	26	✓

P.M. - SACRIFICED (chloroform-exsanguination) Autops: No tbc.
 TISSUE FOR SECTION - Hypothalamus, thalamus, mid brain,
 pons, medulla, cord levels (Z-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

171 # 250.

Convalescent serum 10⁻⁴

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
5-3-48	26	✓

P.M. SACRIFICED (chloro.-exsanguination) Autopsy: No tbc. (gross)
 TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain,
 pons, medulla, cord levels. (Z-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Ph # 25L

Convalescent serum 10^{-4}

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
5-3-48	26	✓

P.M.: SACRIFICED: (chloro.-exsanguination) Autopsy. No gross lbc.
 TISSUE FOR SECTION - Hypothalamus, thalamus,
 midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY: NO POWD

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 252.

Acute serum 10^{-1}

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓ T=100 ⁸
4-20-48	13	✓ T=102 ²
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
4-27-48	20	✓ T=100 ²
4-28-48	21	✓ T=101 ²
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (2-A)

HISTOLOGY; NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 253-

Acute serum

10⁻¹

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓ T=102.°
4-20-48	13	✓ T=101.°
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
4-27-48	20	✓ T=102.°
4-28-48	21	✓ T=101.°
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (2-A)

HISTOLOGY: NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 254-

Acute serum

10⁻¹

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓ T=104 [°]
4-20-48	13	✓ T=103 [°]
4-21-48	14	✓ T=103 [°]
4-22-48	15	✓ T=102 [°]
4-23-48	16	✓ T=102 [°]
4-24-48	17	✓ T=103 [°]
	18	✓
4-26-48	19	✓ T=105 [°] . (No excitement or pilomotor response evident a.m. or p.m.)
4-27-48	20	T=104 [°] . Par. par. left lower. Weakness of other 3 extremities. Marked pilomotor response. Excitement.
4-28-48	21	Par. par. both lowers. Weakness both uppers.
4-29-48	22	Same.
4-30-48	23	"
5-1-48	24	No improvement.
5-2-48	25	"
5-3-48	26	"
5-4-48	27	"
5-5-48	28	Same.
5-6-48	29	"
5-7-48	30	"
5-8-48	31	Partial paralysis both lowers.
5-9-48	32	"
5-10-48	33	"
5-21-48		Par. par. both lowers.
6-1-48		No change.
6-6-48		" " 6-9-48 Bled for serum.
6-17-48		Compl. Par. of both lowers.
7-6-48		Same 7-8-48 Bled (40 cc) for serum ± 3 mth. serum.
7-17-48		Compl. par. both lowers 8-28-48 serum of 7-8-48 thawed & 4 cc removed for Testing N.T.
7-22-48		No change
8-5-48		Compl. par. both lowers.
8-20-48		No change

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh # 255

Acute serum

10⁻²

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)TISSUE FOR SECTION - thalamus, hypothalamus, midbrain,
pons, medulla, cord levels (I-A)HISTOLOGY: NO POND

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

Rb# 256-

Acute serum

10⁻²

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)TISSUE FOR SECTION - Hypothalamus, thalamus,
midbrain, pons, 3 medulla, 19 cord levels (2-A)HISTOLOGY

Above sections show no pathological changes.

DIAGNOSIS: NO POLIO

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

Rb# 257-

Acute serum

10⁻²

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-5-48	28	✓

SACRIFICED (chloroform-exsanguination)TISSUE FOR SECTION - thalamus, hypothalamus,
midbrain, pons, medulla, (2) cord levels (2-A)HISTOLOGY:

Above sections show no pathological changes.

DIAGNOSIS: NO POLIO.

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb # 258

Acute serum

10⁻³

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY: Above sections show no pathological changes.

DIAGNOSIS: NO POLIO.

APR 7 1948

HOMOLOGOUS

NEUTRALIZATION

TEST

APR 7 1948

R# 259-

Acute serum

10⁻³

DATE	DAY	REMARKS
4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	Found DEAD in a.m. Autopsy: No gross the. Thorax and abdomen grossly show no gross pathology. No evidence of cervical vertebral fracture. TISSUE FOR SECTION: Cord levels, medulla, pons, midbrain, thalamus & hypothalamus (2-A) When found animal had teeth tightly clenched over tongue. There was no fouling of his chain. Gross dissection of brain in making above sections shows scattered points of capillary oozing throughout the thalamus and mid-brain; There was no gross intracerebral hemorrhage.

4-7-48

DAY

0

✓

4-8-48

1

✓

4-9-48

2

Found DEAD in a.m. Autopsy: No gross the. Thorax and abdomen ~~grossly~~ show no gross pathology. No evidence of cervical vertebral fracture.

TISSUE FOR SECTION: Cord levels, medulla, pons, midbrain, thalamus & hypothalamus (2-A)

When found animal had teeth tightly clenched over tongue. There was no fouling of his chain.

Gross dissection of brain in making above sections shows scattered points of capillary oozing throughout the thalamus and mid-brain; There was no gross intracerebral hemorrhage.

Histology - No Polio

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

R_h# 260.

Acute serum

10⁻³

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Hypothalamus, thalamus,
 midbrain, pons, medulla, cord levels (2-A)

HISTOLOGY!NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rb# 261-

Acute serum

10⁻⁴

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Hypothalamus, thalamus,
 midbrain, pons, (3) medulla, (2) cord levels (T-A)

HISTOLOGY:

Above sections show no pathological findings.

DIAGNOSIS: NO POLIO.

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rat # 262-

Acute serum

10⁻⁴

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (Z-A)

HISTOLOGY:NO POLIO

APR 7 1948

HOMOLOGOUS NEUTRALIZATION TEST

Rh# 263-

Acute serum

10⁻⁴

DATE DAY REMARKS

4-7-48	0	✓
4-8-48	1	✓
4-9-48	2	✓
4-10-48	3	✓
4-11-48	4	✓
4-12-48	5	✓
4-13-48	6	✓
4-14-48	7	✓
4-15-48	8	✓
4-16-48	9	✓
4-17-48	10	✓
4-18-48	11	✓
4-19-48	12	✓
4-20-48	13	✓
4-21-48	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
5-4-48	27	✓

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - Hypothalamus, thalamus,
 midbrain, pons, (3) medulla (19) cord levels (2A)

HISTOLOGY: Above sections show no pathological changes.

DIAGNOSIS: NO POLIO

HOMOLOGOUS NEUTRALIZATION TEST. SERUM DILUTION METHOD

DILUTIONS OF [REDACTED] SERA VS [REDACTED] STRAIN VIRUS

7-6-48

VIRUS USED:- Generation II of [REDACTED] strain polio - same pool as used for the initial titration of this virus (3-17-48) and for neutralization test (6-2-48)

SERA USED:- Two sera of [REDACTED]

ACUTE : 8/26/47 (2nd day of illness)

CONVALESCENT : 11/25/47 (93rd day)

INCUBATION:- Serum-virus and Serum-saline dilutions as indicated in table below made up. Incubated at room temp (72°F) for one hour; then ice box (3°C) for ± 17 hrs. overnight; then into ice bath during inoculations of morning of 7-7-48

MONKEYS:- Normal rhesus 4 per serum dilution and control (1:300); 3 per saline control dilutions of 10^{-3} ; 10^{-4} ; 10^{-5} . Also 10 Aplynctomized monkeys (as marked.) (NFIP-N.C. monkey farm)

INOCULUM:- 0.5 c.c. I.C. per monkey.

SERUM DILUTION TEST

FINAL VIRUS CONCENTRATION = 1:300

(Equal parts corresponding serum dilution and 1:150 virus)

SERUM DILUTION	UNDILUTED	1:4	1:16	1:64
ACUTE (2 nd day)	Rh 686 _{0, X₃₄}	Rh 690 _{D₂₂}	Rh 694 _{P₁₂}	Rh + 698 _{? P₆}
	687 _{0, X₃₄}	+ 691 _{? P}	695 _{0, K₃₃}	699 _{P₉}
	688 _{0, K₃₃}	692 _{D₁₉}	696 _{OK₃₃}	700 _{P₇}
	689 _{0, X₃₄}	693 _{P₁₂}	697 _{OK₃₃}	1897 _{P₁₂}
CONVALESCENT (93 rd day)	Rh 701 _{0, K₃₄}	Rh 705 _{0, X₃₄}	Rh 709 _{P₁₂}	Rh 713 _{0, K₃₄}
	702 _{0, X₃₄}	706 _{0, X₃₅}	710 _{OK₃₄}	714 _{0, K₃₅}
	703 _{0, X₃₄}	707 _{0, X₃₅}	711 _{OK₃₄}	715 _{0, K₃₅}
	704 _{D₅}	708 _{0, X₃₅}	712 _{0, K₃₄}	1855 _{D₁₇}
VIRUS DILUTION	1:300	1:1000	1:10,000	1:100,000
SALINE CONTROL	Rh 716 _{P₆}	Rh 718 _{P₉}	Rh 719 _{0, K₃₃}	Rh 720 _{P₉}
	717 _{P₇}	1933 _{0, K₃₄}	1906 _{0, K₃₄}	1919 _{0, K₃₄}
	1818 _{P₈}	1913 _{P₇}	1895 _{0, K₃₄}	1860 _{P₉}
	1934 _{P₁₀}			

Rh 716

Saline Control 1:300

DATE DAY REMARKS

JUL 7 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓

7-13-48

6

Compl. paralysis both upper and left lower; Part par. right lower; aphonia
SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross etc.

TISSUE FOR SECTION: Single segments of lumbar & cervical cord.

TISSUE FOR VIRUS: Cord and medulla frozen in a lusteroid (d-9)

Culture: ✓✓✓

7-14-48 Cord and medulla of Rh 716 thawed and pooled with Rh 1913
to make a 20% susp in saline. (see work letter)

11-19-48 Tissues for section discarded

Rh 717

Control 1:300

JUL 7 1948

DATE DAY REMARKS

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
7-14-48	7	Part. Par. left upper, weak right upper. <i>Bled for serum</i>
7-15-48	8	Compl. Par. both uppers, Part. Par. both lowers.
7-16-48	9	Quadriplegia; aphonia
	10	" "
	11	No change
	12	" "
	13	" "
	14	Same
	15	"
	16	"
	17	"
	18	"
	19	Quadriplegia; aphonia
	20	No change
	21	" "
	22	" "
	23	" "
	24	" "
	25	" "
8-2-48	26	Quadriplegia; aphonia

P.M. FOUND DEAD

AUTOPSY: No gross

TISSUE FOR SECTION single segments of lumbar & cervical cord.

11-19-48 tissues for section discarded

Rh 1818 Splenectomized Saline Control 1:300

JUL 7 1948

DATE DAY REMARKS

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

7-15-48

8

Partial Par. all 4 extremities

7-16-48

9

Quadriplegia; Weak voice

10

No change

11

" "

12

" "

13

" "

7-21-48

14

Quadriplegia; aphonia; Edema of the right eye

15

No change

16

" "

7-24-48

17

DEAD: Autopsy: no gross Tbc.

Tissue FOR HISTOLOGY: Cord rather soft - 2 segments of cervical and lumbar cord; also medulla. (2-A)

11-19-48- Tissues discarded

Rh 1934 Splenectomized Saline Control 1:300

DATE	DAY	REMARKS
JUL 7 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓ T = 105.4
7-16-48	9	Dead tremors
7-17-48	10	Compl. par both lowers and left upper; Part. par. right upper.
	11	No change
	12	" "
	13	" "
	14	" "
	15	" "
7-23-48	16	Quadriplegia
	17	No change
	18	"
	19	Quadriplegia
	20	No change
	21	" "
	22	" "
	23	" "
	24	" "
	25	" "
8-2-48	26	Quadriplegia; Weak voice
	27	Same
	28	"
	29	No change
	30	" "
	31	" "
	32	Same.
	33	No change
	34	" "
8-11-48	35	Quadriplegia; Weak voice
8-20-48	44	No change
8-30-48	54.	DEAD: Autopsy: no gross TB. - Spinal cord consistency very mushy.

TISSUE FOR SECTION: 2 sections of medulla (fairly firm); several sections of
 (3) lumbar and cervical cord - (extremely pulsatous). Z.A.

HISTOLOGY: Medulla shows very minimal PV cuffing and lightly
 scattered interstitial glial infiltration. - Spinal cord shows
 extensive root degeneration; mild PV cuffing; much neuronal
 loss; cord segments are poor.

DIAGNOSIS: POLIO "old"

Rh 718

Saline Control 1:1000

JUL 7 1948

DATE DAY REMARKS

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓ T-1062

7-15-48 8 Compl. Par. left upper; Part. Par. right upper & both lowers. Weak voice

7-16-48 9 Quadriplegia - aphonia

7-17-48 10 7:45 A.M. FOUND Prostate

8:00 A.M. FOUND DEAD

AUTOPSY: No gross lcs

TISSUE FOR SECTION: Single segments of lumbar & cervical cord (2)

11-19-48 Tissues Discarded

Rh 1933 Splenectomized Saline Control 1:1000

JUL 7 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓ 2 excited
6 ✓
7 ✓
8 ✓ T=103.5
9 ✓
10 ✓
11 ✓
12 ✓

7-20-48 13 Awkward
14 no change
15 ✓
16 ✓
17 ✓

18 Seems O.K. today
19 ✓ T=103.3
20 ✓ T=103
21 ✓ T=102.4
22 ✓
23 ✓
24 ✓
25 ✓

8-2-48 26 ✓
27 ✓
28 ✓
29 ✓
30 ✓
31 ✓
32 ✓

8-10-48

33 ✓
34 ✓

SACRIFICED (abdominal-exsanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION Several segments of lumbar & cervical (5)
and single segments of thoracic, medulla, thalamus
and midbrain (Z.A.). (Thalamus + midbrain discarded 9/17/48)
~~These tissues are complete~~

HISTOLOGY: Above levels reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 1913 splenectomized

Saline Control 1:1000

JUL 7 1948

DATE DAY REMARKS

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

excited

7-14-48

7

T-103⁶ Concept. Par. right upper, Post. Par. left upper, and both lowers.

SACRIFICED: (chloroform-exsanguination)

AUTOPSY: No gross lcs.

TISSUE FOR SECTION: Single segments of lumbar & cervical cord (Z.A.)

TISSUE FOR VIRUS: Cord and medulla pooled with that of Rh 716

To make a 20% susp in (48 cc) sterile saline. Pooled weight = 11.8 gms

± 43 cc of susp frozen in 4-20 cc amps. Stored Vial #1334 (B-7-8)

Culture: ✓✓✓

11-19-48 Tissues for section Discarded

Rh 719

Saline Control 1:10,000

JUL 7 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
7-15-48	8	T=103 $\frac{1}{2}$ Excited, Pilomotor response
	9	✓ Pilomotor response
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	20	✓
	22	✓
	23	✓
	24	diarrhea
	25	mild diarrhea
8-2-48	26	mild diarrhea
	27	mild diarrhea
	28	mild diarrhea
	29	" "
	30	" "
	31	" "
	32	" "
8-9-48	33	mild diarrhea

SACRIFICED - (Chloroform - Exsanguination)

AUTOPSY - no gross tbe

TISSUE FOR SECTION - Five segments of lumbar; one of thoracic; two of cervical cord; two of medulla; midbrain, thalamus (ZA). 9-16-48. Midbr. + Thalamus discarded.

HISTOLOGY:

Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 1906 splenectomized Saline Control 1:10,000

DATE DAY REMARKS

JUL 7 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

8

T=102 $\frac{3}{4}$ mild diarrhea, No focal weakness

9

✓

10

✓

11

✓

12

✓

13

✓

14

✓

15

✓

16

✓

17

✓

18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

8-10-48

34

✓

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross tbc

TISSUE FOR SECTION Several segments of lumbar⁽⁴⁾ and cervical⁽⁴⁾ cord.
Single sections of thoracic⁽²⁾, medulla⁽¹⁾, {thalamus and midbrain⁽²⁾ (2.1.)
9/1/48 discarded.

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO

Rh 1895 Splenectomized Saline Control 1:10,000

DATE DAY REMARKS

JUL 7 1948

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 ✓
30 ✓
31 ✓
32 ✓

8-2-48

33 ✓
34 ✓

8-10-48

✓ SACRIFICED (chloroform-epsanguination)
AUTOPSY No gross the
TISSUE FOR SECTION Several segments of lumbar and cervical cord.
Single sections of thoracic, medulla, (thalamus and midbrain) (2.A.1)
discarded 9/17/48.

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 720

Saline Control 1:100,000

JUL 7 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
7-13-48	6	excited - Pilomotor response; Clumsy lowers.
7-14-48	7	Same but now has a definite weakness of both lowers. T=103.4
7-15-48	8	FOUND DEAD

AUTOPSY: No gross etc

TISSUE FOR SECTION: Several segments of lumbar, thoracic and cervical cord, medulla, thalamus & midbrain (Z.A.)

HISTOLOGY:

Lumbar and Cervical Cord and Medulla: - all show very extensive acute neuronophagia, with very slight cuffing. Thoracic Cord: O.K.; Midbrain and Thalamus - short perivascular infiltration.

DIAGNOSIS: ACUTE POLIO

Rh 1919 splenectomized Saline Control 1:100,000

JUL 7 1948

DATE DAY REMARKS

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 ✓
30 ✓
31 ✓
32 ✓
33 ✓

8-2-48

8-10-48

34 ✓ SACRIFICED (chloroform - exsanguination)
AUTOPSY no gross lbc
TISSUE FOR SECTION several segments of lumbar ⁽⁵⁾ cervical ⁽⁴⁾ cord.
single sections of thoracic, medulla, thalamus, and midbrain (Z.A.)
discarded 9/17/48.

HISTOLOGY: Above segments reveal no histopathology.

DIAGNOSIS: NO POLIO

Rh 1860 splenectomized Saline Control 1:100,000

DATE DAY REMARKS

JUL 7 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

diarrhea

8

✓

T=102 mild diarrhea

7-16-48

9

✓

Quadriplegia

7-17-48

10

✓

Quadriplegia - aphonia

11

✓

No change

7-17-48

12

✓

FOUND DEAD

Autopsy: No gross etc.

TISSUE FOR SECTION: Single segments of lumbar & cervical cord, & medulla (Z.A.)

11-17-48 Tissues for section discarded

Rh 686

Acute Undiluted

DATE DAY REMARKS

JUL 7 1948

DATE	DAY	REMARKS
JUL 7 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	diarrhea
	10	diarrhea
	11	"
	12	"
	13	"
	14	"
	15	"
	16	✓
	17	✓
	18	✓ (mild diarrhea)
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
	31	✓
32	✓	
33	✓	
34	✓	

8-2-48

8-10-48

✓ Observation Terminated Monkey tag # changed to 686X
so that monkey may be used again
8-16-48 Rh 686X used for Semmatt Neutralization Test

Polio-Homologous Neutralization Test - Serum Dilution Method -

STRAIN

Rh 687

Acute Undiluted

DATE DAY REMARKS

JUL 7 1948

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

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

8-10-48

34

✓

Observation Terminated Monkey tag # changed to 687 X
so that monkey may be used again

8-16-48 Rh 687X used for Tennant Neutralization Test.

Rh 688

Acute Undiluted

JUL 7 1948

DATE DAY REMARKS

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 ✓

8-2-48

26 ✓
 27 ✓
 28 ✓
 29 ✓
 30 ✓
 31 ✓

8-9-48

32 ✓ - diarrhea
 33

SACRIFICED - (Chloroform - Exsanguination)

AUTOPSY - No gross TB

TISSUE FOR SECTION Single segments of lumbar, thoracic and
 cervical cord; medulla, midbrain, thalamus
 → (2A). (Thalamus & midbrain discarded 9/17/48.

moribund; thin; gasping occasionally; marked streaming diarrhea. -

11-19-48 Frisnes discarded

Polio-Homologous Neutralization Test- Serum Dilution Method-

STRAIN

Rh 689

Acute Undiluted

DATE DAY REMARKS

JUL 7 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

mild diarrhea

7

✓

" "

8

✓

9

✓

10

✓

11

✓

12

✓

13

✓

14

✓

15

✓

16

✓

17

✓

18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

8-10-48

34

✓

Observation Terminated Monkey tag # changed to 689X
so that monkey may be used again

8-16-48 Rh 689X used in Tennant Neutralization Test.

Rh 690

Acute 1:4

JUL 7 1948

DATE DAY REMARKS

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	diarrhea
	10	"
	11	"
	12	"
	13	"
	14	"
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓

7-28-48

21

✓ thin - bloody diarrhea

7-29-48

22

FOUND DEAD - Autopsy: Emaciated; colon content hemorrhagic;
no gross Tbc. - CNS very soft.

TISSUE FOR SECTION: 3 lumbar; thoracic; cervical cord;
medulla; thalamus; midbrain. (2A) very soft,
(poor fixation)

HISTOLOGY: Above levels reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 691

Agent 1:4

DATE DAY REMARKS

JUL 7 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

8

✓

mild diarrhea

9

✓

" "

10

✓

" "

11

✓

" "

12

✓

T=103.8

7-20-48

13

✓

Weakness both lowers

14

✓

no change

15

✓

both lowers clumsy

7-23-48

16

✓

Both lowers clumsy; uppers easily exhausted; T=102; no focal weakness.

17

✓

Same T=102.5

18

✓

No focal weakness; is easily exhausted and clumsy especially with both lowers.

19

✓

Same

20

✓

"

21

✓

As entirely without abnormal findings today.

22

✓

23

✓

24

✓

25

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

34

✓

8-11-48

35

✓

SACRIFICED (chloroform-exsanguination)

Autopsy:

No gross the

issue: - lumbar, thoracic, cervical, medulla segments. - Midbrain; Thalamus

dissected 9/10/48

HISTOLOGY:

Root degeneration; neuronal outfall, areas of dense glial and round cell infiltration - at all levels of sp. cord. Medulla shows heavy p.v. cuffing and interstitial glial infiltration.

DIAGNOSIS: POLIO ("old")

Rh 692

Acute 1:4

DATE	DAY	REMARKS
JUL 7 1948	0	Diarrhea
	1	" "
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	diarrhea
	9	"
	10	"
	11	diarrhea - thin
	12	diarrhea - thin
7-20-48	13	diarrhea - thin; tires easily; weak both lower?
	14	no change
	15	diarrhea - thin no def. signs relative to lower extremities
	16	diarrhea; thin; general weakness
	17	same
	18	unchanged; no focal but generalized weakness.

7-26-48

19

FOUND DEAD:

AUTOPSY: No gross the; lobar consolidation entire rt. lung.

TISSUE FOR SECTION: Entire Cns in Z.A., also segment of lung
(midbrain; Thalamus; medulla; 5 Cervical; 4 lumbar & thoracic).

HISTOLOGY: Above segment reveal no neuronal disease.
(lungs show "red hepatization")

DIAGNOSIS: NO POLIO

Rh 693

Acute 1:4

DATE DAY REMARKS

JUL 7 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	
	10	✓	
	11	✓	
7-14-48	12	Compl. Par. of left upper; Part Par. right upper & both lowers.	
7-20-48	13	No change	
7-21-48	14	Comp. par. of both lowers and left upper; Part par right upper	
	15	No change	
	16	" "	
	17	" "	
	18	No change.	
	19	Compl. Par. of left upper & both lowers; Part. Par. of right upper.	
	20	No change	
	21	" "	
	22	" "	
	23	" "	
	24	" "	
	25	" "	
8-2-48	26	Compl. Par. both lowers & left upper; Part Par. right upper.	
	27	No change	
	28	" "	
	29	" "	
	30	" "	
	31	" "	
	32	Same.	
	33	"	
	34	"	
8-11-48	35	Compl. Par. both lowers & left upper; Part Par. right upper.	
8-20-48	44	No change 9-1-48- No change	
9-27-48	82	Compl. Par. both lowers. Almost Compl. Par. left upper; Part par. rt. upper Monkey can not sit up but ^{head & neck} moves and eats well.	
		10-7-48 Bled For Serum	
		10-7-48 - Homologous Challenge IC (see record).	

Rh 694

Acute 1:16

DATE DAY REMARKS

JUL 7 1948

0 ✓

1 ✓

2 ✓

3 ✓

4 ✓

5 ✓

7-13-48

6

Clumsy - easily exhausted T=103°

7

"

7-15-48

8

Same - no focal weakness T=104.2

9

Clumsy

10

"

11

✓

7-14-48

12

Compl. Par. both lowers & left upper; Part par. right upper

13

No change

7-21-48

14

Quadriplegia

15

"

16

"

17

"

18

NO Change.

19

Quadriplegia

20

No change

21

"

22

"

23

"

24

"

25

"

8-2-48

26

Compl. Par. both lowers & left upper; Part. Par. right upper; Weak voice

27

No change

28

"

29

"

30

"

31

"

32

Same

33

"

8-10-48

34

FOUND DEADAutopsy: no gross theTISSUE FOR SECTION

Several segments of lumbar and cervical cord (Z.A.)

11-19-48 Tissues discarded

Polio - Homologous Neutralization Test - Serum Dilution Method

STRAIN

Rh 695

Acute 1:16

DATE DAY REMARKS

JUL 7 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓

7-15-48

8 disinclined to climb; T=104.8
9 severe diarrhea
10 " "
11 " "12 " "13 " " - thin

7-20-48

14 " " "
15 " " "16 mild diarrhea - "17 ✓

7-23-48

18 Has mild diarrhea; is thin.
19 Same
20 "
21 "
22 "
23 "
24 "
25 "26 thin - diarrhea

8-2-48

27 thin - diarrhea
28 thin - diarrhea
29 thin - diarrhea
30 thin - diarrhea
31 Same
32 Same

8-9-48

33 " SACRIFICED - (chloroform - exsanguination)

AUTOPSY - no gross lbe

TISSUE FOR SECTION - Five segments of lumbar; one of thoracic; two of cervical; two of medulla; medulla, thalamus. (ZA).

on slides only have 24; 17; 16; 15; 14; 13; 12; 11; 10; 9; 8; 7; 6; 5; 4; 3; 2; 1; 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; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 78; 79; 80; 81; 82; 83; 84; 85; 86; 87; 88; 89; 90; 91; 92; 93; 94; 95; 96; 97; 98; 99; 100; 101; 102; 103; 104; 105; 106; 107; 108; 109; 110; 111; 112; 113; 114; 115; 116; 117; 118; 119; 120; 121; 122; 123; 124; 125; 126; 127; 128; 129; 130; 131; 132; 133; 134; 135; 136; 137; 138; 139; 140; 141; 142; 143; 144; 145; 146; 147; 148; 149; 150; 151; 152; 153; 154; 155; 156; 157; 158; 159; 160; 161; 162; 163; 164; 165; 166; 167; 168; 169; 170; 171; 172; 173; 174; 175; 176; 177; 178; 179; 180; 181; 182; 183; 184; 185; 186; 187; 188; 189; 190; 191; 192; 193; 194; 195; 196; 197; 198; 199; 200; 201; 202; 203; 204; 205; 206; 207; 208; 209; 210; 211; 212; 213; 214; 215; 216; 217; 218; 219; 220; 221; 222; 223; 224; 225; 226; 227; 228; 229; 230; 231; 232; 233; 234; 235; 236; 237; 238; 239; 240; 241; 242; 243; 244; 245; 246; 247; 248; 249; 250; 251; 252; 253; 254; 255; 256; 257; 258; 259; 260; 261; 262; 263; 264; 265; 266; 267; 268; 269; 270; 271; 272; 273; 274; 275; 276; 277; 278; 279; 280; 281; 282; 283; 284; 285; 286; 287; 288; 289; 290; 291; 292; 293; 294; 295; 296; 297; 298; 299; 300; 301; 302; 303; 304; 305; 306; 307; 308; 309; 310; 311; 312; 313; 314; 315; 316; 317; 318; 319; 320; 321; 322; 323; 324; 325; 326; 327; 328; 329; 330; 331; 332; 333; 334; 335; 336; 337; 338; 339; 340; 341; 342; 343; 344; 345; 346; 347; 348; 349; 350; 351; 352; 353; 354; 355; 356; 357; 358; 359; 360; 361; 362; 363; 364; 365; 366; 367; 368; 369; 370; 371; 372; 373; 374; 375; 376; 377; 378; 379; 380; 381; 382; 383; 384; 385; 386; 387; 388; 389; 390; 391; 392; 393; 394; 395; 396; 397; 398; 399; 400; 401; 402; 403; 404; 405; 406; 407; 408; 409; 410; 411; 412; 413; 414; 415; 416; 417; 418; 419; 420; 421; 422; 423; 424; 425; 426; 427; 428; 429; 430; 431; 432; 433; 434; 435; 436; 437; 438; 439; 440; 441; 442; 443; 444; 445; 446; 447; 448; 449; 450; 451; 452; 453; 454; 455; 456; 457; 458; 459; 460; 461; 462; 463; 464; 465; 466; 467; 468; 469; 470; 471; 472; 473; 474; 475; 476; 477; 478; 479; 480; 481; 482; 483; 484; 485; 486; 487; 488; 489; 490; 491; 492; 493; 494; 495; 496; 497; 498; 499; 500; 501; 502; 503; 504; 505; 506; 507; 508; 509; 510; 511; 512; 513; 514; 515; 516; 517; 518; 519; 520; 521; 522; 523; 524; 525; 526; 527; 528; 529; 530; 531; 532; 533; 534; 535; 536; 537; 538; 539; 540; 541; 542; 543; 544; 545; 546; 547; 548; 549; 550; 551; 552; 553; 554; 555; 556; 557; 558; 559; 560; 561; 562; 563; 564; 565; 566; 567; 568; 569; 570; 571; 572; 573; 574; 575; 576; 577; 578; 579; 580; 581; 582; 583; 584; 585; 586; 587; 588; 589; 590; 591; 592; 593; 594; 595; 596; 597; 598; 599; 600; 601; 602; 603; 604; 605; 606; 607; 608; 609; 610; 611; 612; 613; 614; 615; 616; 617; 618; 619; 620; 621; 622; 623; 624; 625; 626; 627; 628; 629; 630; 631; 632; 633; 634; 635; 636; 637; 638; 639; 640; 641; 642; 643; 644; 645; 646; 647; 648; 649; 650; 651; 652; 653; 654; 655; 656; 657; 658; 659; 660; 661; 662; 663; 664; 665; 666; 667; 668; 669; 670; 671; 672; 673; 674; 675; 676; 677; 678; 679; 680; 681; 682; 683; 684; 685; 686; 687; 688; 689; 690; 691; 692; 693; 694; 695; 696; 697; 698; 699; 700; 701; 702; 703; 704; 705; 706; 707; 708; 709; 710; 711; 712; 713; 714; 715; 716; 717; 718; 719; 720; 721; 722; 723; 724; 725; 726; 727; 728; 729; 730; 731; 732; 733; 734; 735; 736; 737; 738; 739; 740; 741; 742; 743; 744; 745; 746; 747; 748; 749; 750; 751; 752; 753; 754; 755; 756; 757; 758; 759; 760; 761; 762; 763; 764; 765; 766; 767; 768; 769; 770; 771; 772; 773; 774; 775; 776; 777; 778; 779; 780; 781; 782; 783; 784; 785; 786; 787; 788; 789; 790; 791; 792; 793; 794; 795; 796; 797; 798; 799; 800; 801; 802; 803; 804; 805; 806; 807; 808; 809; 810; 811; 812; 813; 814; 815; 816; 817; 818; 819; 820; 821; 822; 823; 824; 825; 826; 827; 828; 829; 830; 831; 832; 833; 834; 835; 836; 837; 838; 839; 840; 841; 842; 843; 844; 845; 846; 847; 848; 849; 850; 851; 852; 853; 854; 855; 856; 857; 858; 859; 860; 861; 862; 863; 864; 865; 866; 867; 868; 869; 870; 871; 872; 873; 874; 875; 876; 877; 878; 879; 880; 881; 882; 883; 884; 885; 886; 887; 888; 889; 890; 891; 892; 893; 894; 895; 896; 897; 898; 899; 900; 901; 902; 903; 904; 905; 906; 907; 908; 909; 910; 911; 912; 913; 914; 915; 916; 917; 918; 919; 920; 921; 922; 923; 924; 925; 926; 927; 928; 929; 930; 931; 932; 933; 934; 935; 936; 937; 938; 939; 940; 941; 942; 943; 944; 945; 946; 947; 948; 949; 950; 951; 952; 953; 954; 955; 956; 957; 958; 959; 960; 961; 962; 963; 964; 965; 966; 967; 968; 969; 970; 971; 972; 973; 974; 975; 976; 977; 978; 979; 980; 981; 982; 983; 984; 985; 986; 987; 988; 989; 990; 991; 992; 993; 994; 995; 996; 997; 998; 999; 1000

HISTOLOGY: Above segments free of pathology.

DIAGNOSIS: NO POLIO

Rh 696

Acute 1:16

JUL 7 1948

DATE DAY REMARKS

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓ T = 103 $\frac{6}{10}$
7 ✓
8 ✓
9 ✓
10 ✓
11 ✓
12 ✓
13 ✓
14 ✓
15 ✓
16 ✓
17 ✓
18 ✓
19 ✓
20 ✓
21 ✓
22 ✓
23 ✓
24 ✓
25 ✓
26 ✓
27 ✓
28 ✓
29 ✓
30 ✓
31 ✓
32 ✓
33 ✓

8-2-48

8-10-48

34 ✓ SACRIFICED (chloroform-exsanguination)
AUTOPSY: No gross the
TISSUE FOR SECTION: several segments of lumbar and cervical cord.
~~single sections of~~ ⁽³⁾ medulla, ⁽⁴⁾ thalamus & midbrain (2. A.)
(discarded 9/17/48.)

HISTORY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO.

Polio- Homologous Neutralization Test- Serum Dilution Method

strain

Rh 697

Acute 1:16

DATE DAY REMARKS

JUL 7 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ? excited T = 105.3
7 ✓ T = 104.2
8 ✓
9 ✓
10 ✓
11 excited
12 ✓
13 ✓
14 ✓
15 ✓ T = 101.4
16 ✓
17 ✓
18 ✓
19 ✓ T = 102.9
20 ✓
21 ✓
22 ✓
23 ✓
24 ✓
25 ✓
26 ✓
27 ✓
28 ✓
29 thin-diarrhea
30 thin-diarrhea
31 same
32 same.

8-2-48

8-9-48

33 mild diarrhea

SACRIFICED - (chloroform-exsanguination)

AUTOPSY - No gross lcs

TISSUE FOR SECTION - ~~Spinal~~ segments of lumbar, thoracic and (4) (2).
4. cervical cord; ~~midbrain~~, midbrain, ~~thalamus~~ (2A).
discarded 9/17/48.

HISTOLOGY: Above segments show no pathology.

DIAGNOSIS: NO POLIO

Rh 698

Acute 1:64

DATE DAY REMARKS

JUL 7 1948

0 ✓
 1 ✓
 2 ✓
 3 ✓
 4 ✓
 5 ✓

7-13-48

6

At 7:15 A.M. was found prostrate on cage floor by [REDACTED] but was not given a clinical examination, at 8:30 was found Dead; body still very warm. Due to position of chain around neck, death ^{was} probably caused by strangulation.

AUTOPSY: No gross lcs.

TISSUE FOR SECTION: Several segments each of lumbar, thoracic and cervical cord; medulla, pons, thalamus & midbrain (Z.A.)
 discarded 11-24-48.

HISTOLOGY: Acute neuronophagia at all levels; marked in medulla & PV cuffing.

DIAGNOSIS: POLIO (acute)

Rh 699

Acute 1:64

DATE DAY REMARKS

JUL 7 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	T = 106 ¹
	7	✓	T = 105 ²
	8	✓	T = 105 ³ No weakness
7-16-48	9		Partial. Par. both lowers & left upper. Weak right upper
7-17-48	10		Part. Par. all 4 extremities
7-18-48	11		" " " "
	12		No change
	13		" "
7-21-48	14		Comp par both lowers and right upper; part par left upper
	15		No change
	16		" "
	17		" "
	18		No change.
7-26-48	19		Compl. par. both lowers; Part Par. both lowers.
	20		No change
	21		" "
	22		" "
	23		" "
	24		" "
	25		" "
8-2-48	26		Compl. Par. left lower; Part Par. right lower & both uppers
	27		No change
	28		" "
	29		" "
	30		" "
	31		" "
	32		Same.
	33		No change
	34		" "
8-11-48	35		Compl. Par. left lower; Part Par. right lower; Weakness both uppers.
8-20-48	44		Compl. Par. left lower; Part Par. right lower.
9-27-48	82		Compl. Par. left lower; Part. Par. rt. lower; Weakness left upper. Monkey can sit up and climb.
			10-7-48 Bled for serum
			10-7-48 Homologous Challenge IC (see record).

Rh 700

Acute 1:64

JUL 7 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓ IT = 166.5
7-14-48	7	Part. Par. both lowers; Weak right upper. Tremors <i>Bled for serum</i>
7-15-48	8	Complete Par. both lowers; Part. Par. both uppers.
7-16-48	9	Quadriplegia Weak voice
	10	" "
	11	" "
	12	No change
	13	" "
	14	" "
	15	" "
	16	" "
	17	" "
	18	No change.
7-26-48	19	Quadriplegia Weak voice
	20	No change
	21	" "
	22	" "
	23	" "
	24	" "
	25	" "
8-2-48	26	Quadriplegia
	27	No change
	28	" "
	29	Same
	30	" "
	31	" "
	32	Same.
	33	" "
	34	" "
8-11-48	35	Quadriplegia
8-20-48	44	No change
9-27-48	82	Quadriplegia; Moves head and neck but can not sit up.

10-4-48 - Bled; sacrificed; used for preparation of "Gray Cord Emulsion" - and Medulla Emulsion ~~for~~ in the experiments in search of neutralizing substances in Monkey nervous tissue. (g.v.).

Rk 1897 splenectomized

Acute 1:64

JUL 7 1948

DATE DAY REMARKS

	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
7-15-48	8	? excitement T=103.9
	9	✓
	10	✓
	11	✓
7-19-48	12	Part. Par. right upper. Weakness left upper, Tremors.
7-20-48	13	Part. Par. all four extremities.
7-21-48	14	Quadriplegia
	15	"
7-23-48	16	Quadriplegia; aphonia
	17	same
	18	NO change.
7-26-48	19	Quadriplegia - weak voice
	20	No change
	21	" "
	22	" "
	23	" "
	24	" "
	25	" "
8-2-48	26	Quadriplegia; Weak voice
	27	No change
	28	" "
	29	" "
	30	" "
	31	" "
	32	Same
	33	"
	34	"
8-11-48	35	Quadriplegia; Weak voice
8-20-48	44	No change.
8-25-48	49	DEAD: - Autopsy: No gross the

TISSUE FOR SECTION several segments of lumbar & cervical cord (2.A.)

(Tissue extremely friable)
11-17-48 Tissues discarded

Rh 701

Convalescent Undiluted

JUL 7 1948

DATE DAY REMARKS

0 Diarrhea

1 ✓ "

2 ✓

3 ✓

4 ✓

5 ✓ T=102

6 ✓

7 ✓

8 ✓

9 ✓

10 ✓

11 ✓

12 ✓

13 ✓

14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓ thin - diarrhea

20 ✓ " "

21 ✓ diarrhea - slightly weak - no focal weakness

22 ✓ diarrhea

23 ✓ diarrhea

24 ✓

25 ✓

8-2-48

26 ✓

27 ✓

28 ✓

29 ✓

30 ✓

31 ✓

32 ✓

33 ✓

8-10-48

34 ✓

SACRIFICED (chloroform-embalvation)AUTOPSY: No gross theTISSUE FOR SECTION several segments of lumbar & cervical cord.
single sections of thoracic medulla; the ~~thoracic~~ and midbrain (2.A.)
(2 medulla, 2 cervical; 1 thoracic; 3 lumbar - 2A.)HISTOLOGY:

Above levels reveal no pathology.

DIAGNOSIS: NO POLIO

Polio - Homologous Neutralization Test - Serum Dilution Method -

Strain

Rh 702

Convalescent Undiluted

JUL 7 1948

DATE DAY REMARKS

DATE	DAY	REMARKS
	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	✓
8-2-48	25	✓
8-2-48	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
	31	✓
	32	✓
	33	✓
8-10-48	34	✓

Observation Terminated Monkey tag # changed to 702 X
 so that monkey may be used again
8-16-48 Rh 702 X used for Tennant Neutralization Test.

Rh 703

Convalescent Undiluted

JUL 7 1948

DATE DAY REMARKS

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 ✓
30 ✓
31 ✓
32 ✓
33 ✓

8-2-48

8-10-48

34

✓ Observation Terminated Monkey tag # changed to
703 X so that monkey may be used again
8-16-48 Rh 703X used for Tennant Neutralization Test

Rh 704

Convalescent Undiluted

JUL 7 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
7-12-48	5	✓

FOUND DEAD - Rh 704 was found dead in cage with chain twisted several times around his neck; Death due, probably to strangulation.

AUTOPSY: No gross ltr

TISSUE FOR SECTION: Single segments of lumbar thoracic and cervical cord; medulla thalamus and midbrain. (Z. A)

HISTOLOGY:

These segments show no gross pathology.

DIAGNOSIS

NO EVIDENCE OF POLIO

Rh 705

Convalescent 1:4

JUL 7 1948

DATE DAY REMARKS

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓
7	✓
8	✓
9	✓
10	✓
11	✓
12	✓
7-20-48 13	? excited
14	✓
15	✓
16	✓
17	✓
18	✓
19	✓
20	✓
21	✓
22	✓
23	✓
24	✓
25	✓
8-2-48 26	✓
27	✓
28	✓
29	✓
30	✓
31	✓
32	✓
33	✓

8-11-48 34 ✓ Observation terminated Monkey tag number changed to 705 X
 so that monkey may be used again
8-16-48 Rh 705X used for Tennant Neutralization Test.

Polio - Homologous Neutralization Test - Serum Dilution Method

STRAIN

Rh 706

Conralescent 1:4

Date

Day

Remarks

JUL 7 1948

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

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

8-

34

✓

8-11-48

35

✓

Observation Terminated Monkey tag # changed to 706 X so that monkey may be used again
8-16-48 Rh 706X used for Tennant Neutralization Test

Rh 707

Convalescent 1:4

Date

Day

Remarks

JUL 7 1948

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

✓

8-2-48

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

34

✓

8-11-48

35

Observation Terminated Monkey tag # changed to 707 X so
that monkey may be used again

8-16-48 Rh 707X used for Tennant Neutralization Test

Polio- Homologous Neutralization Test- Serum Dilution Method

STRAIN

Rh 708

Convalescent 1:4

Date JUL 7 1948

Day Remarks

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 ✓
30 ✓
31 ✓
32 ✓
33 ✓
34 ✓

8-2-48

8-11-48

Observation Terminated Monkey Tag # changed to 708X so that
monkey may be used again
8-16-48 Rh 708X used for Neutralization Test.

Rh 909

Convalescent 1:16

Date	Day	Remarks
JUL 7 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
7-14-48	12	Compl. par. left upper. Part. Par. right upper & both lowers.
7-20-48	13	Compl par both lowers & left upper; part par. right upper
	14	No change
	15	" "
7-23-48	16	Quadriplegia; aphonia
	17	Same
	18	No change.
8-26-48	19	Quadriplegia; aphonia
	20	No change
	21	" "
	22	" "
	23	" "
	24	" "
	25	" "
8-2-48	26	Quadriplegia; aphonia
	27	No change
	28	" "
	29	" "
	30	" "
	31	" "
	32	Same.
8-9-48	33	FOUND DEAD

Autopsy: No gross the
Tissue for section: Several segments of lumbar
 and cervical cord
 11-19-48 Tissues discarded

Polio - Homologous Neutralization Test - Serum Dilution Method [REDACTED] STRAIN

Rh 710

Convalescent 1:16

Date JUL 7 1948

Day	Remarks
0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓ mild diarrhea
7	✓
8	✓
9	✓
10	✓
11	✓
12	✓
13	✓
14	✓
15	✓
16	✓
17	✓
18	✓
19	✓
20	✓
21	✓
22	✓
23	✓
24	✓
25	✓
26	✓
27	✓
28	✓
29	✓
30	✓
31	✓
32	✓
33	✓
34	✓

8-2-48

8-10-48

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross the
TISSUE FOR SECTION several segments of lumbar and cervical and
single sections of thoracic, medulla, thalamus and midbrain (Z.A.)

HISTOLOGY: These segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 711

Convalescent 1:16

Date	Day	Remarks
JUL 7 1948	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	✓
30	✓
31	✓
32	✓

8-2-48

8-10-48

33	✓
34	✓

SACRIFICED (chloroform-exsanguination)AUTOPSY: No gross ltr

TISSUE FOR SECTION Several segments of lumbar and cervical (3) (7) cord; single sections of thoracic medulla, thalamus and midbrain (Z.A.) - 9/16/48. Thalamus + midbrain discarded.

HISTOLOGY: Above segments reveal no pathology.DIAGNOSIS: NO POLIO

Rh 712

Convalescent 1:16

Date JUL 7 1948

Day Remarks

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	excited
7	✓
8	? excited T=103.5
9	✓
10	✓
11	✓
12	✓
13	✓
14	✓ ? excited
15	" " T=103.4
16	Seems OK today
17	✓
18	✓
19	✓ T=102.8
20	✓
21	✓
22	✓
23	✓
24	✓
25	✓
26	✓
27	✓
28	✓
29	✓
30	✓
31	✓
32	✓
33	✓
34	✓

8-2-48

8-10-48

SACRIFICED (chloroform-exsanguination).

AUTOPSY: No gross ~~the~~ (4 lumbar; 1 Thor; 6 cervical)

TISSUE FOR SECTION Several segments of lumbar and cervical and single sections of thoracic medulla; ~~thoracic~~ and midbrain (2.A.)

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 713

Convalescent 1:64Date
JUL 7 1948

Day Remarks

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 ✓
30 ✓
31 ✓
32 ✓
33 ✓

8-2-48

8-10-48

34

✓ SACRIFICED (chloroform-exasanguination)AUTOPSY: No gross theTISSUE FOR SECTION

~~from~~ several segments of lumbar and
cervical cord, single sections of thoracic medulla, thalamus
and midbrain (2-4-1) - 9-15-48. Thalamus & midbrain discarded.

HISTOLOGY: Above sections reveal no pathology.DIAGNOSIS: NO POLIO

Rh 714

Convalescent 1:64

Date JUL 7 1948

8-2-48

8-11-48

Day Remarks

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓
8 ✓
9 ✓
10 ✓ diarrhea
11 ✓ "
12 ✓
13 ✓ diarrhea
14 ✓ "
15 ✓
16 ✓
17 ✓
18 ✓
19 ✓
20 ✓
21 ✓
22 ✓
23 ✓
24 ✓
25 ✓
26 ✓
27 ✓
28 ✓
29 ✓
30 ✓
31 ✓
32 ✓
33 ✓
34 ✓

✓ SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross ltr (4 lumbar; 2 Thor; 6 Cervical).

TISSUE FOR SECTION Several segments of lumbar and cervical cord;
single sections of thoracic medulla thalamus and midbrain (2 A.)
(9/16/48.- thalamus + midbrain discarded).

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh 715

Convalescent 1:64.

Date Day Remarks

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 ✓
 30 ✓
 31 ✓
 32 ✓
 33 ✓
 34 ✓

8-2-48

5-11-48

35 ✓ SACRIFICED (chloroform-anaesthesia)
AUTOPSY: No gross etc
TISSUE FOR SECTION Several segments of lumbar & cervical
 cord; single sections of thoracic medulla thalamus & midbrain (2 A.)

HISTOLOGY:

Above levels show no pathology.

DIAGNOSIS:NO POLIO

Rh 1855 splenectomized Convalescent 1:64

Date Day Remarks

JUL 7 1948

0	✓	
1	✓	
2	✓	
3	✓	
4	✓	
5	✓	
6	✓	
7	✓	thin - diarrhea
8	✓	thin - General weakness
9	✓	same - diarrhea
10	✓	" "
11	✓	" "
12	✓	very thin - diarrhea
7-20-48	13	✓ very thin - diarrhea - general weakness
	14	✓ no change
	15	Marked diarrhea; very thin - no specific weakness
7-23-48	16	Severe diarrhea; very thin; no focal weakness
7-24-48	17	MORIBUND: <u>DEAD</u> - Autopsy: emaciated; no gross infection with oesophagus; no gross TBC. (7 (C.W.; 3 M; 4 L.). Tissue for histology: - cord levels: medulla; midbrain and thalamus. (Z-A.) (Thal. + midbr. discarded 9/17/48)

HISTOLOGY: Above levels reveal no pathology.

DIAGNOSIS: NO POLIO

Remarks

Chas. L. Hunt 1.64