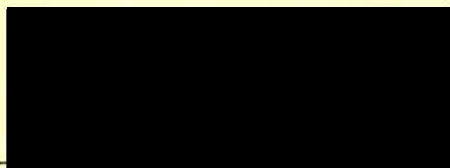


Pols 1947-



Cincinnati.



white boy - age - 8 yrs

Re 5100

ONSET - 8-27 - 3 AM - Severe headache and fever

5-6 PM. - seen in admitting room - 102° F
very stiff neck and back, pos.
Kernig and Brudzinski

Lumbar puncture - ~~the~~ definitely cloudy

WBC - 1070; ~~93%~~ 93% polys.

Pellicle formed promptly. Sugar - 7mg.

Because gm. neg. bacteria in clumps were found on slide (which were suspected as contaminants from stain or elsewhere) diagnosis was left undecided + treatment for meningitis instituted.

2nd lumbar punct - very cloudy; not counted

but sugar 53.5%

Sp. fluid cultures - neg 8/28, 8/29, 8/30

8-28

L. P. - 886 WBC = 90% polys.
protein 68mg.

Paralysis of left lower extremity - developed suddenly.

Blood taken (1 1/2 days after onset)

Swabs I; stool ordered - no returns from enema

8-29

Still febrile - no extension of paralysis

Swabs II; Stool I CSF - 117 WBC.

90% lymphs.

8-30

Temp. 100°; no ext. of paral.

Swabs III; Stool II

8-31

Temp. 101° - to-day comp. paralysis of right lower as well as left lower.

Can move toes; ankle-jerks positive.

Paralytic ileus - abdomen distended

+ tympanitic. Some par. of bladder -

relieved by "doryl." Upper extrem -

can perform all movements - strength?

Respiration - O.K. Cran. nerves - O.K.

Enema returns III - obtained with difficulty because of ileus.

9-2

By the end of 8/31 paralysis extended to upper extremities and respiration became difficult due to intercostal paralysis - put in respirator

Temp. down to 99.6 to 98.7 to-day. Out of respirator for short time - diaphr. OK.

intercostals (esp. left) poor. More comfort. in resp.

Can talk, swallow etc. - appears unconcerned + well oriented.

NOV 14 1947

A. Stools.

Estimated Solids Present	_____	35 gms.	} ± 12% (10%)
Fluid Present	_____	± 180 cc.	
Distilled Water Added	_____	50 c.c.	

Blended one minute at low speed. -

For Centrifugation	_____	± 200 c.c.
For Re-freezing	_____	125 c.c. (Box "C")

First Supernatant =		127.0 c.c.
Ether Added =		26 cc.

Untreated Sediment = 40.0 cc (for intranasal use)

11/15/47 - Final Amt Treated Stool Suspension = 100 c.c.

Cult: (Before final centrifugation) - * many colonies densely packed (90%)
 (After Final centrifugation) - * ditto. -

11/17/47 - Recult: * 1 col. at edge of pour.

11/17/47 - Re-Etherization - 20 cc. ether added; shaken, refrigerated. -

11/18/47 - Stool suspension used for inoculation (After centrifugation) - = 90 c.c.

Culture: ✓✓

7-20-48 - Blended stool thawed and 8.0 cc removed for interference experiment with Lansing Polio. Remainder refrozen "C"

7-22-48 ± 4 cc of etherized stool frozen in one 10 cc amp. Stored 8-7-9

12-16-48 study of 7-22-48 Discarded

NOV 14 1947

B. Pharyngeal Swab Material:-

Fluid Expressed	2.1 c.c.
Distilled Water	<u>1.9 c.c.</u>

Ether Added -	4.0 c.c.
	1.5 c.c.

11/15/47. - After Removal Top Layer = 3.8 c.c.

11/15/47. After Final Centrifugation = 3.5 c.c. (frozen a-3)

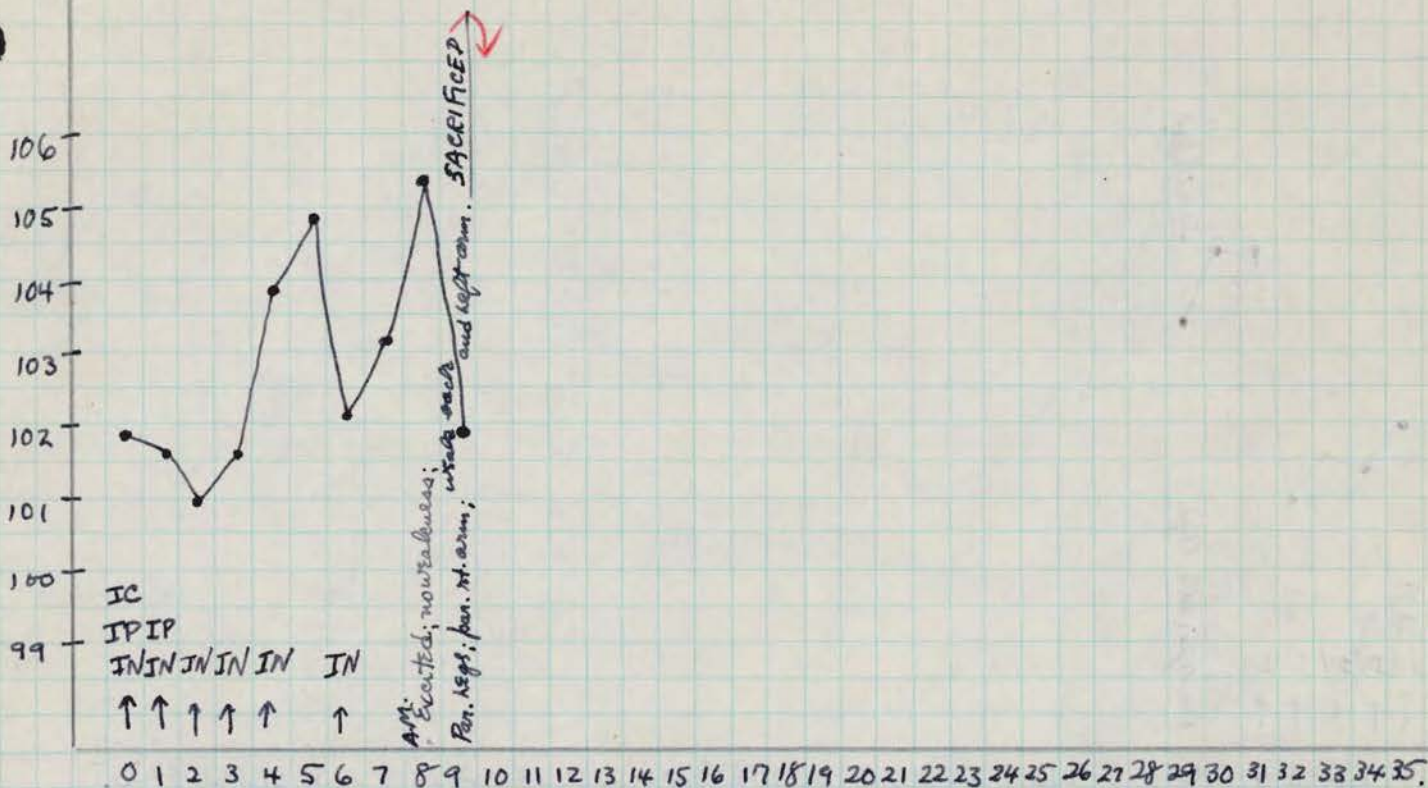
Culture: 1 col. off the pour.

11/18/47. - Material Thawed and inoculated IC into monkeys.

NOV 18 1947

Treated pharyngeal swabs - IC ^{Cult}
 Treated Stools - IP ^{X 1 Col. off plate}
 Untreated stools - IN

Rhesus #6



11/18/47. Inoculated 1.5 c.c. IC; 20 cc. I.P.; 100 each nostril IN.

11/23/47. - No signs detected; Temp. 104° -

11/25. - No signs.

11/26/47. - Climbs actively; not excited; no weakness or paralysis; Temp. 105°!

11/27/47. Excited; no weakness or paralysis; climbs well; no pitomotor response.

2:30 P.M. - partial paralysis hands; generalized weakness apparent after monkey is slightly fatigued when it flops to floor and is unable to get around.

11/28/47. Paralysis both legs and left arm; rt. arm and back very weak. - - Sacrificed with chloroform; Autopsy: no gross evidence of tuberculosis.

HISTOPATHOLOGY: - Cord levels; medulla; Thalamus.

TISSUE FOR VIRUS: spinal cord frozen in West Ercid. tub. (C-1)

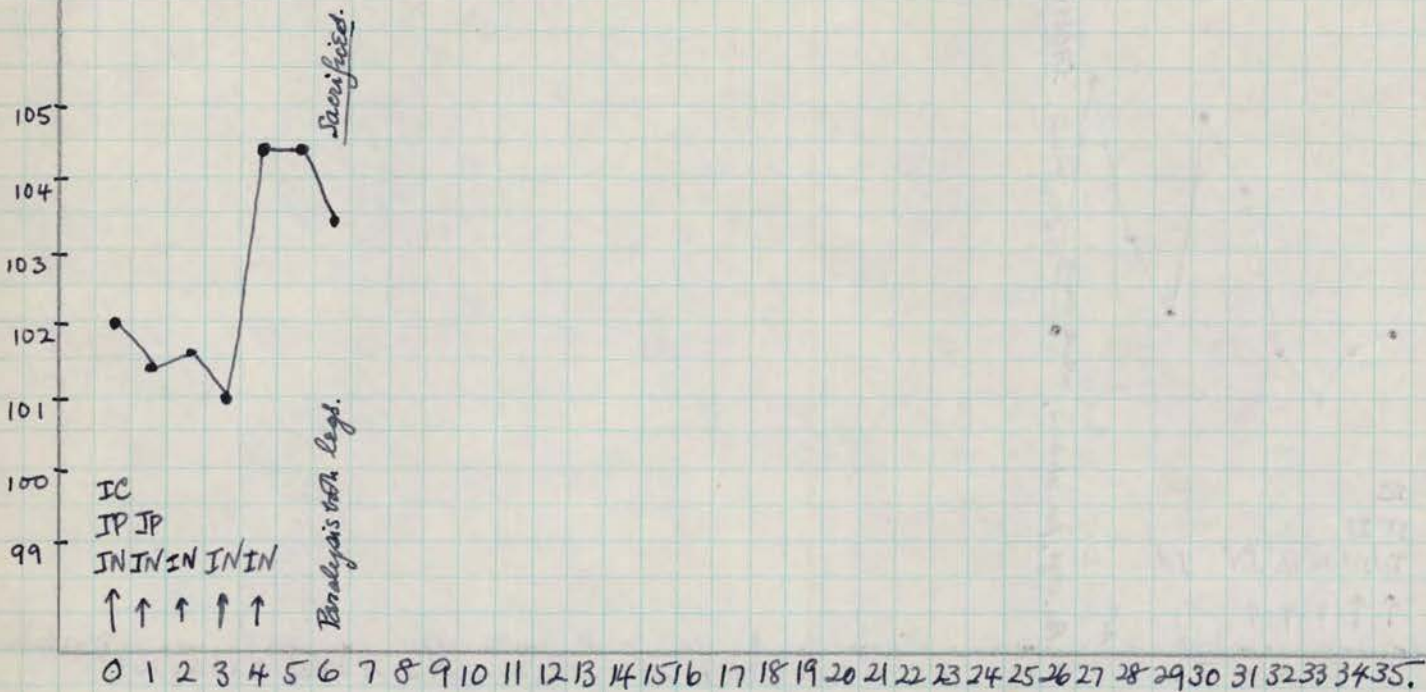
12/1/47. - Cord - medulla of Rh. #6 pooled with that of Rh. #1087 (ovse), total wt. = 7.5 gms. 20% susp. made in saline (sand + mostar); spun lightly for 5 minutes, and passaged to Rh. #13 and Rh. #22. - Remainder frozen in 2 Vials (B-1-9)

Histology - Polio (acute)

NOV 18 1947

Rhesus # 1087 - splenectomized.

Treated Pharyngeal Swabs - IC
Treated Stools - IP
Untreated Stools - IN



11/18/47. Inoculated 1.5 cc. IC; 20 cc. IP; 1 cc. IN each nostril.

11/23/47. - No signs detected; Temp up to 104°.

11/24/47. - Paralysis both lower limbs; upper limbs and back seem OK; cranial nerves intact. - Sacrificed with chloroform.

Autopsy: - No gross evidence of tuberculosis; no accessory spleen; no evidence of peritonitis.

HISTOPATHOLOGY: spinal cord levels; medulla; Thalamus. (2A)

TISSUES FOR VIRUS: spinal cord and medulla frozen in a Listeroid tube. (d-1)

12/1/47. - used for rhesus passage (see over.)

Histology - Polio (acute)

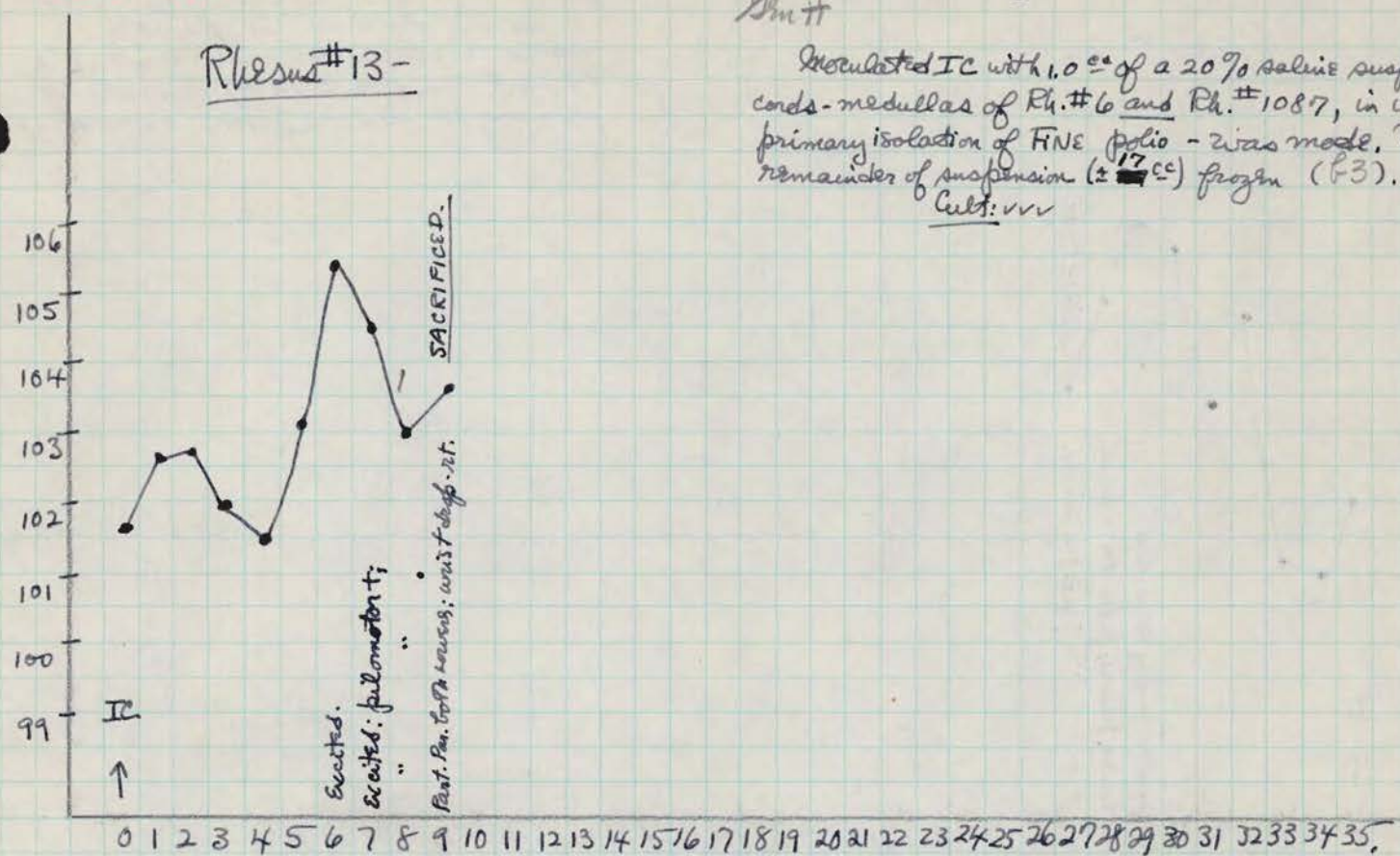
DEC 1 1947

POLIO - Rhesus Passage. (Generation II)

Gen II

Inoculated IC with 1.0 cc of a 20% saline susp. of cords-medullas of Rh.#6 and Rh.#1087, in whom primary isolation of FINE polio - was made. The remainder of suspension (± 17 cc) frozen (F3).
Cult: vvv

Rhesus #13-



12/6/47. - Mild pilomotor response; not excited.
 12/10/47. Slumped over; partial paralysis both lower; rt. wrist drop; excited; pilomotor response still present. - Sacrificed - chloroform. Autopsy: No evidence of tuberculosis.
 CORON CONTENTS: Frozen in Lusteroid tube. (Storage Gen II 2)
 HISTOPATHOLOGY: cord levels and medulla (24)
 TISSUE FOR VIRUS: cord and medulla pooled with that of Rh.# 22 (overleaf) giving total wt. of 7.0 gms; made up with 35.0 cc saline, centrifuged and frozen. (2 amps in C2; 1 amp in d-8) Cult: X 50-60 small non-hem. colonies; sm. neg. large rods on smears.
 3-1-48. This susp. filtered (Boakefield V) and then ino. IC. into Rt.# 1715 and Rh.# 1670 to make Generation III. - Remainder of susp. distributed in two 20 cc amps. and stored (B-3-5) Cult: vvv

Histology - Polio (cont.)

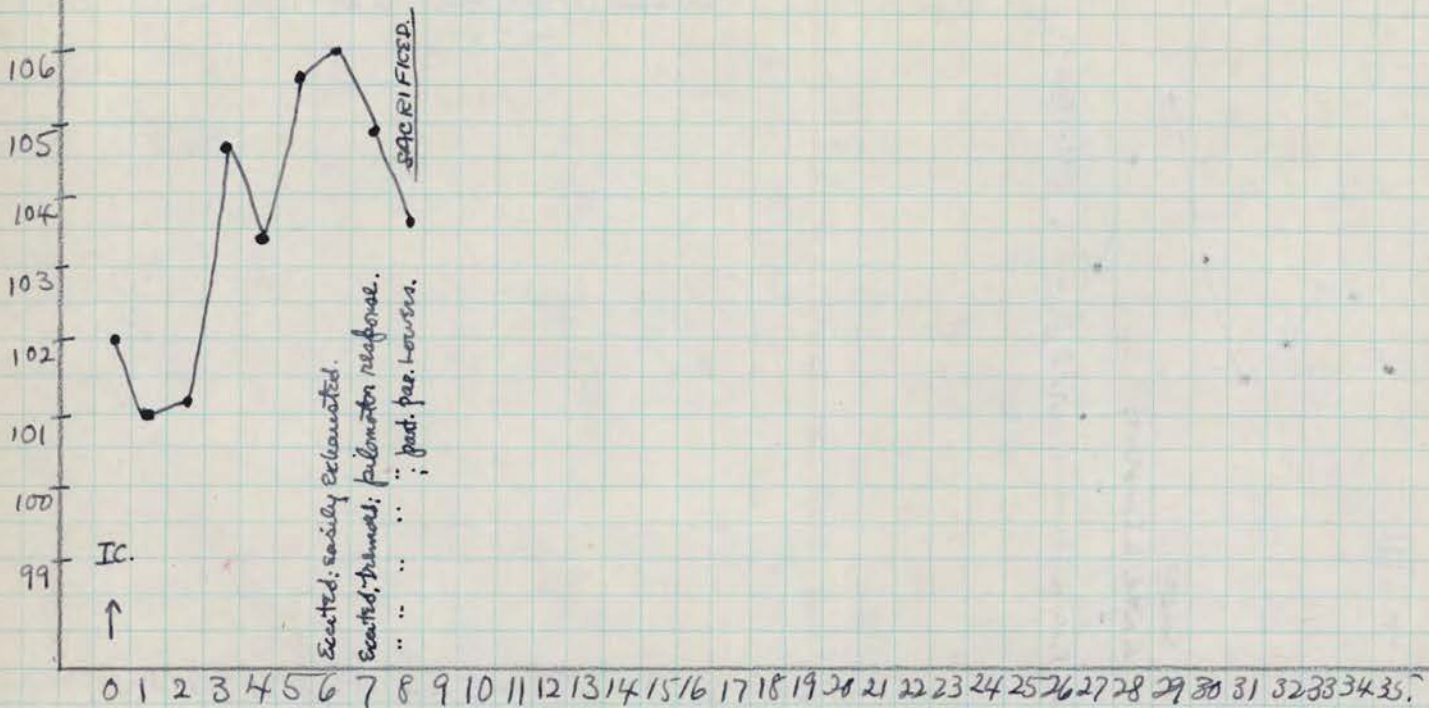
DEC 1 1947

POLIO - Rhesus Passage - (Generation II)

Gen II

Inoculated with 1.0 cc IC of a 20% saline suspension of cords + medullas of Rh. #6 and Rh. #1087 from whom primary isolation of true Polio was made.

Rhesus # 22 -



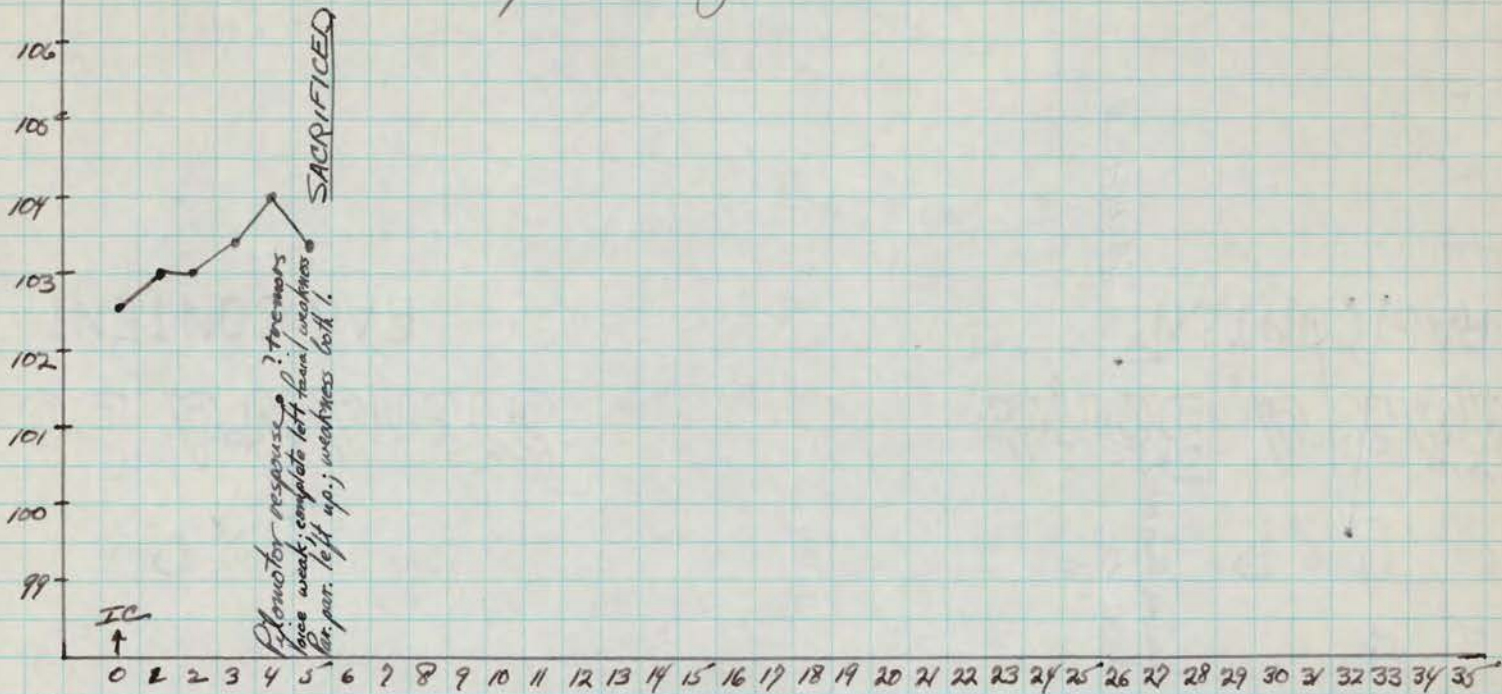
12/6/47. Mild pilomotor response; not excited, no tremors.
 12/9/47. - Tremors rather marked; pilomotor response; Excited; partial paralysis of both lower; arms seem normal; cranial nerves OK. - Sacrificed - chloroform.
Autopsy: - no gross evidence of tuberculosis.
COLON CONTENTS: - Frozen in lusteroid (Storage Box # 2)
HISTOPATHOLOGY: - cord levels; medulla; Thalamus (2A)
TISSUE FOR VIROSES: - cord levels and medulla frozen until 12/10/47; Thawed and pooled with cord-medulla of Rh. # 13 (see over.)

Histology - Polio (acute)

MAR 1 1948

STRAIN - Generation III

Rhesus #1715 - Splenectomized



3-1-48: Temp. I.C. = 1.0cc. of 20% susp. in saline of strain - gen. III (filtered).

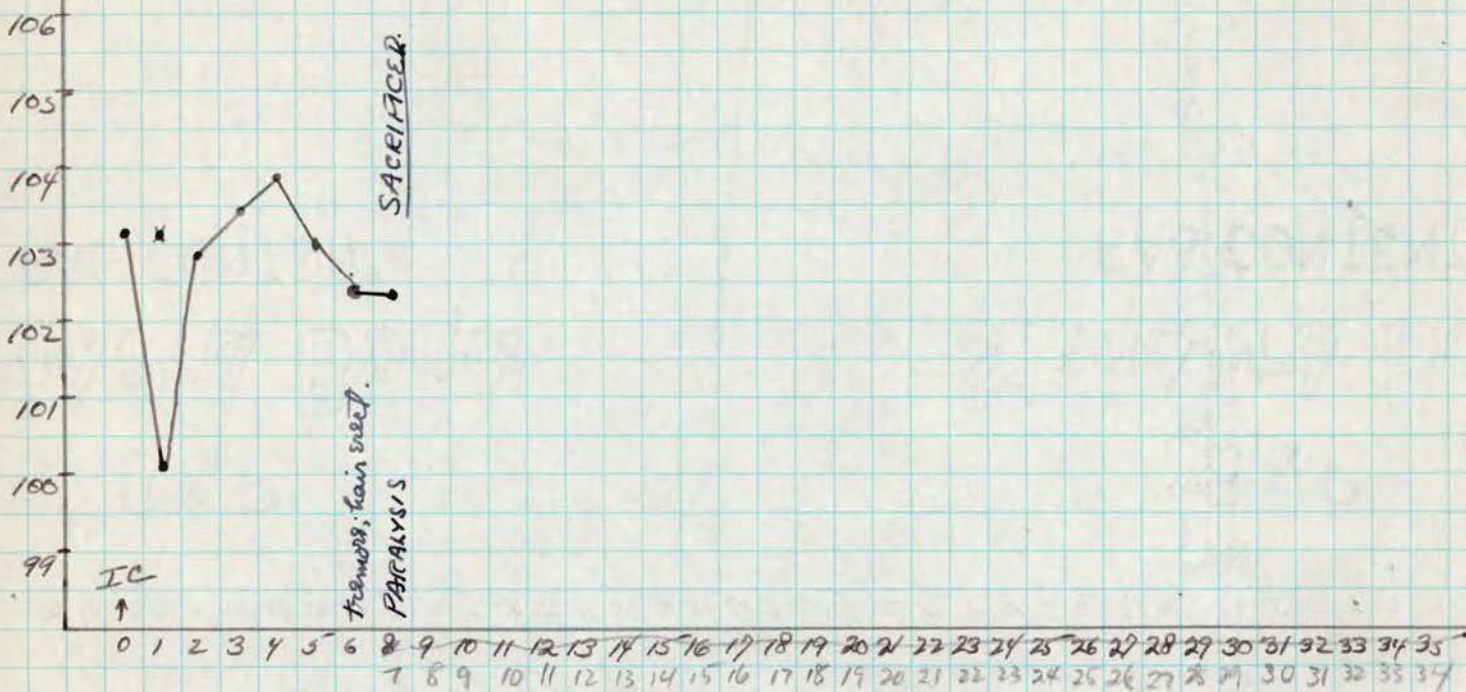
3-5-48: Temp. = 104°. Pmotor response. ? Tremors.

3-6-48: Temp. = 103.4°. Voice weak. Complete left facial weakness. Par. par. left up; weakness both lowers.

Sacrificed (chloroform - exsanguination). Autopsy: no gross tissue for histopathology: Sections of lumbar & cervical cord (Z-A). TISSUE FOR VIRUS: Remainder of cord and medulla frozen in a lusteroid tube and stored. (a-1)

Histology - Polio (acute)

MAR 1 1948

STRAIN - Generation iiiRhesus #1670 - Splenectomized

3-1-48: Inoc. IC. \bar{c} 1.0cc of 20% susp. in saline strain - generation ii (filtered).

3-8-48 - Tremors; pilomotor +, part. p. both lowers and rt. upper. - Sacrificed (chloroform - exsanguination). - Autopsy: no gross Tbc.

TISSUE FOR PATHOLOGY: segments of cervical + lumbar cord. (Z.A.)

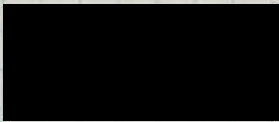
TISSUE FOR VIRUS: cord. medulla pooled with that of Ph. #1715 (overleaf); total wt = 15.0 gms. made up as 20% susp. with 60^{cc} saline; after centrifugation = 48^{cc} distributed in five 20^{cc} amples; designated as # 1, 2, 3, 4, 5. - Cult: $\checkmark\checkmark$ (B-4-3)

7-22-48 Vial #3 thawed and 0.4^{cc} removed for Interference experiment with Lansing Polio; remainder refrozen. (B-4-3)

HISTOLOGY - Polio (acute)

TITRATION OF HUMAN POLIO STRAINS

3-16-48.



STRAIN (GEN. III)

Virus used: [redacted] strain polio (gen. III in monkeys) 20% in saline diluted in saline as indicated below.

Monkeys used: Normal rhesus, except Ph. 214 - who is single convalescent

Mixtures used: Dilutions as indicated below, made up in saline; kept at room temp. (74°F) for one hour; then into refrigerator overnight for 15 hrs; then in ice bath during inoculation, done on

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

10^{-2.7}

DILUTION	MONKEY #	CLINICAL FINDINGS	PATHOLOGICAL FINDINGS	RESULT
10 ⁻²	Rh. 214 ^{Dengue} _{convalescent}	? Par. 25	+	
	Rh. 193	Par. 13		3/3
	Rh. 194	Par. 13	+	
10 ⁻³	Rh. 195	○ K29	○	0/3
	Rh. 196	○ K29	○	
	Rh. 197	○ K29	○	
10 ⁻⁴	Rh. 198	Par. 9	+	
	Rh. 199	○ K29	○	1/3
	Rh. 200	○ K29	○	
10 ⁻⁵	Rh. 201	○ K29	○	0/3
	Rh. 202	○ K29	○	
	Rh. 203	○ K29	○	

Rh. 214

Formerly 1222 - Moch.
dengue

Inoc. June 6, 1947

Prostrate with par.
of all extremities
and temp < 94

Recov. consid by
7/11/47

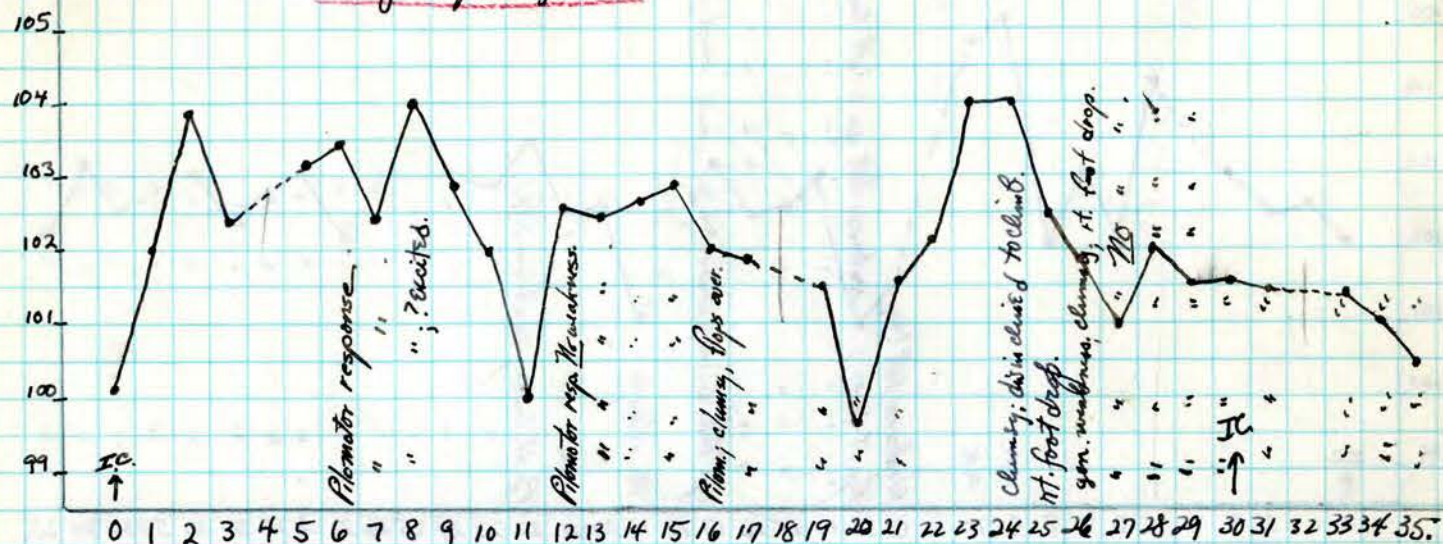
Reinoc. c Mochiz. on
11/14/47 - at which
time presct. normal, to ^{the} react _{2nd case}

MAR 17 1948

TITRATION OF [REDACTED] STRAIN POLIO (Gen. III)

10⁻²

Rh #214 - Convalescent from Dengue (paralytic)



3-17-48: Inoc. I.C. with 0.5 cc of 1:100 20% susp. in saline of [REDACTED] virus - Gen. III.
 3-26-48 - A.M. sl. excited; can close left eye o.k.; but does not draw up left corner of mouth; grimace. - P.M. same.

3-27-48. Mild pilo motor response; sl. excited as yesterday; same facial grimace as yesterday but does at times pull up left corner of mouth and can close the left eye well; no definite weakness and certainly no paralysis.

3-28-48 - Mild pilo motor response; disinclined to climb; no def. weakness or paralysis.

3-29-48 - Definite pilo motor resp; makes repeated facial grimaces; has no distinct loss of power in any extremities; is not disinclined to climb today. (ATS + ABS)

3-30-48: No change today (AM)

3-31-48. No essential change; monkey seems passive and is easier to catch than he usually is - but no distinct weakness or paralysis; still has very definite pilo motor response.

4-1-48: No change.

4-2-48: Somewhat weaker today than before more passive. Clumsy & flops over more easily on pulling. Weak pilomotor response remains. Very pale.

4-3-48: Generalized weakness; pilo motor response; clumsy.

4-4-48: Seems a little less excited; tries to be more active but is still clumsy.

4-5-48: No change from yesterday.

4-6-48: " " " "

4-7-48: " " " "

4-8-48: " " " "

4-9-48: Generalized weakness (no focal weakness or paralysis). Clumsy. Note temp. rise to 104°.

4-10-48. T=104°. No cranial nerve involvement; moves very slowly; is clumsy and disinclined to climb.

4-11-48 - T=102.5; has rt. foot drop; very easily exhausted; clumsy; will not climb.

4-12-48: Rt. foot drop persists. Very clumsy.

4-13-48: " " " not apparent today. Continues very clumsy, weak generally.

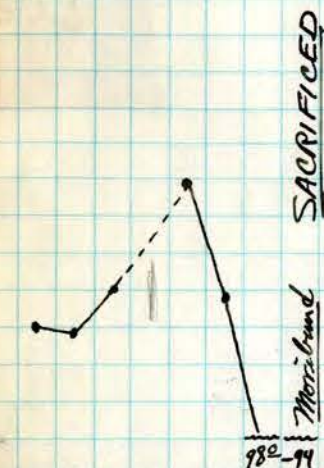
4-14-48: No foot drop. Otherwise only sl. improved as regards clumsiness.

4-16-48 - Clumsy; disinclined to climb; very thin.

(30th day) - Inoculated I.C. with 1.5 cc of 20% Gen III Fine Virus.

(see next page)

Rh 214 - Continued.



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

4-17-48: No change in clinical status since 4-16.

4-18-48: " "

4-19-48: " "

4-20-48: " "

4-21-48: " "

4-22-48: A suggestion of sl. increase in clumsiness.

4-23-48: Same.

4-24-48: " Becoming gradually thinner.

4-26-48: Less active, generalized weakness. (No evidence of focal weakness).

4-27-48: Much weaker. Can hardly lift his body on his hind limbs.

Alert expression. Extremely emaciated.

4-28-48: - Same.

4-29-48: Moribund. SACRIFICED (chloroform-exasanguination)

Autopsy: No gross th.

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

HISTOLOGY: 12 Thoracic levels - bilat. root degeneration; perivasc. infiltration; outfall of many neurons. scattered glial infiltration, and several areas of tight glial nodules; with an area showing round and glial infiltration. Ant. horn cells poorly stained, lacking basal substance.
 8 Cervical levels - some as above. 2 Medulla levels show dense PV infiltration; scattered glial reaction in floor of fourth ventricle and retic. substance - no foci of recent neurophagia.
 Midbrain - Subst. nigra on one side shows round and glial prot. foci; there is light PV infiltration.

DIAGNOSIS: "OLD" POLIO or "Old" Dengue

Note: Rh. 214 - was formerly designated Rh. 1722, and on June 6, 1947 was inoc. I.C. with Moch. Dengue Virus (ABS). - He was prostrate with paralysis of all 4 extremities and Temp < 94°; he had recovered considerably by 7/11/47.
 On 11/14/47 he was re-inoc. with Moch. dengue virus (ABS) - at which time he was practically normal; - there was no reaction to this re-inoculation.

When inoc. on 3/17/48 with 10⁻² "Fine" polio virus, he seemed entirely normal from the motor standpoint.

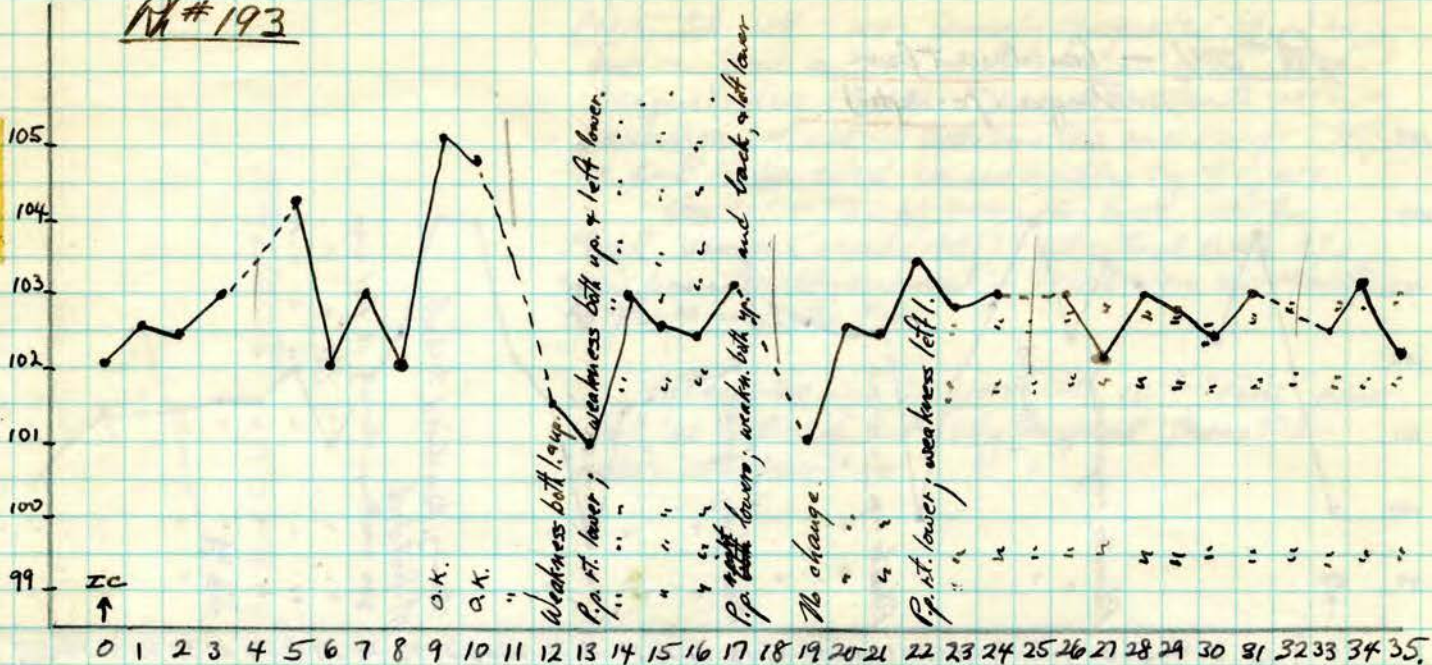
MAR 17 1948

TITRATION

GEN III

10-2

Rh #193



3-17-48: Inoc. IC with 0.5 cc of a ^{1:100} ~~20%~~ susp. in saline - [redacted] - gen III.

3-29-48: ^{A.M.} Weakness both uppers and lowers.
P.M.: Same.

3-30-48: Par. par. right lower; weakness both uppers and left lower.

3-31-48: Has not progressed since yesterday; T

4-1-48: No change.

4-5-48: No progression of paralysis.

4-8-48: Par. par. right lower; weakness of left lower. Has improved some

4-10-48: Same.

4-13-48: P.p. rt. lower. ~~Par. par.~~ left lower.

4-17-48: No change.

4-20-48: " "

4-23-48: " "

4-26-48: ~~Par. par.~~ only of rt. & left lowers. - uppers OK

4-30-48: " "

5-5-48: " "

5-8-48: weakness (? part. par.) rt. lower.

5-12-48: No change

5-21-48: Weakness of both lowers.

6-1-48: " "

6-6-48: Clonus; getting better?

6-17-48: Part. Par. both lowers.

6-23-48 - Bled 20 cc for serum. ^{8-28-48 serum of 6/23/48 thawed & removed for Jansing, N.T.}

7-6-48: No change

7-8-48. Bled (40 cc) for serum (± 3 ml. s.)

7-17-48: No change

7-22-48: Part. Par. both lowers.

7-29-48: Part. Par. both lowers.

8-5-48: No Change

8-15-48: Dead: Autopsy: smaciated; no TB; mod. oropharyngeal infection; otherwise OK.

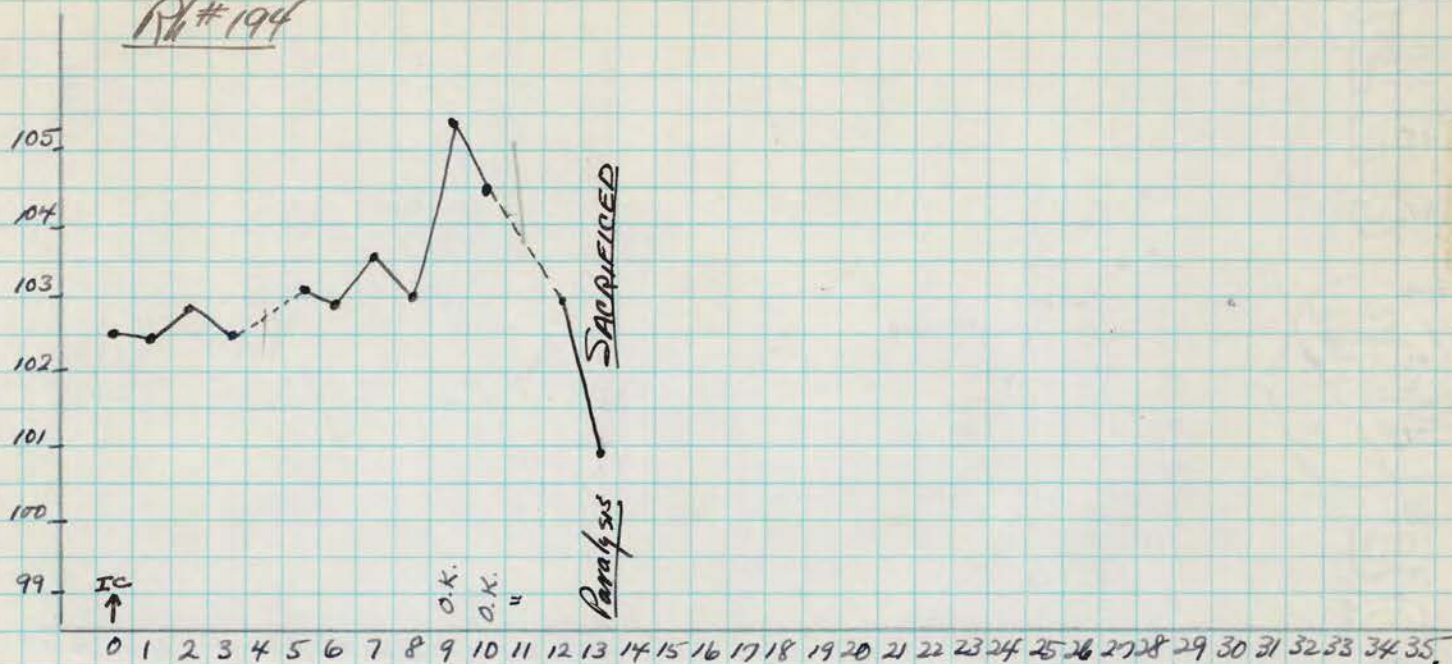
(5) TISSUE FOR SECTION: (to note old changes - took several segments of (5) lumbar, cervical & thoracic; also medulla; midbrain; Thalamus - Z.A.

HISTOLOGY: The tissues show poor fixation and staining perhaps due to post-mortem changes. - Spinal cord levels noted above show extensive neuronal loss, root degeneration, and the remaining neurones show no striking changes, also no poorly stained. Medulla shows very slight PV infiltration, and lightly scattered glial infiltration. - Midbrain (region of substantia nigra is torn), and thalamus show no PV cuffing and very slight scattered gliosis

DIAGNOSIS: POLIO ("old")

MAR 17 1948

RH # 194



3-17-48: Inoc. I.C. with 0.5cc of a ^{1:100} 20% susp. in saline - virus-gen III

3-20-48: Partial par. both lowers. Weakness both up. Voice weak.

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

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

TISSUE FOR VIRUS: Remainder of cord-medulla pooled with thawed cord-medulla of RH #198 and made into a 20% suspension in (48cc.) sterile saline. Wt. of pooled cords-medullae = 11.5 gms. Saline added = 48cc. = 42cc. frozen in 4-20cc amps.

Culture: ✓✓✓

(B-7-1)

HISTOLOGY

POLIO (acute)

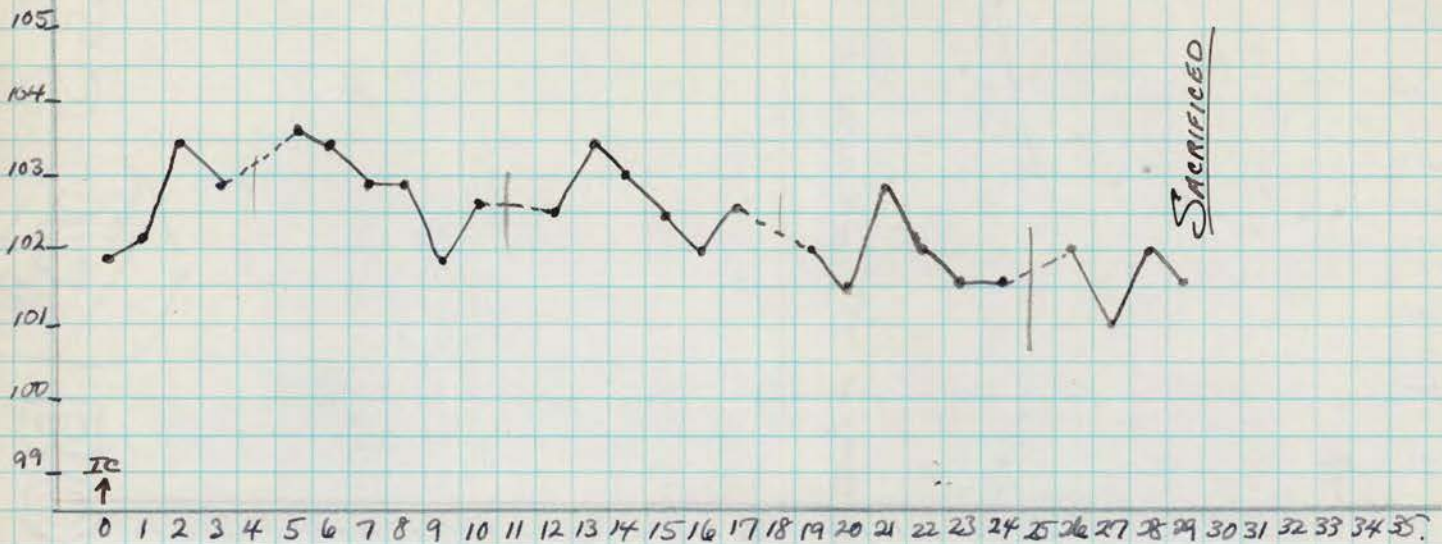
MAR 17 1948

TITRATION

-GEN III

10⁻³

R#195



3-17-48: Inoculated IC with 0.5cc of a ^{1:1000} ~~20%~~ susp. in saline of [redacted] virus-gen^{ty}.

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

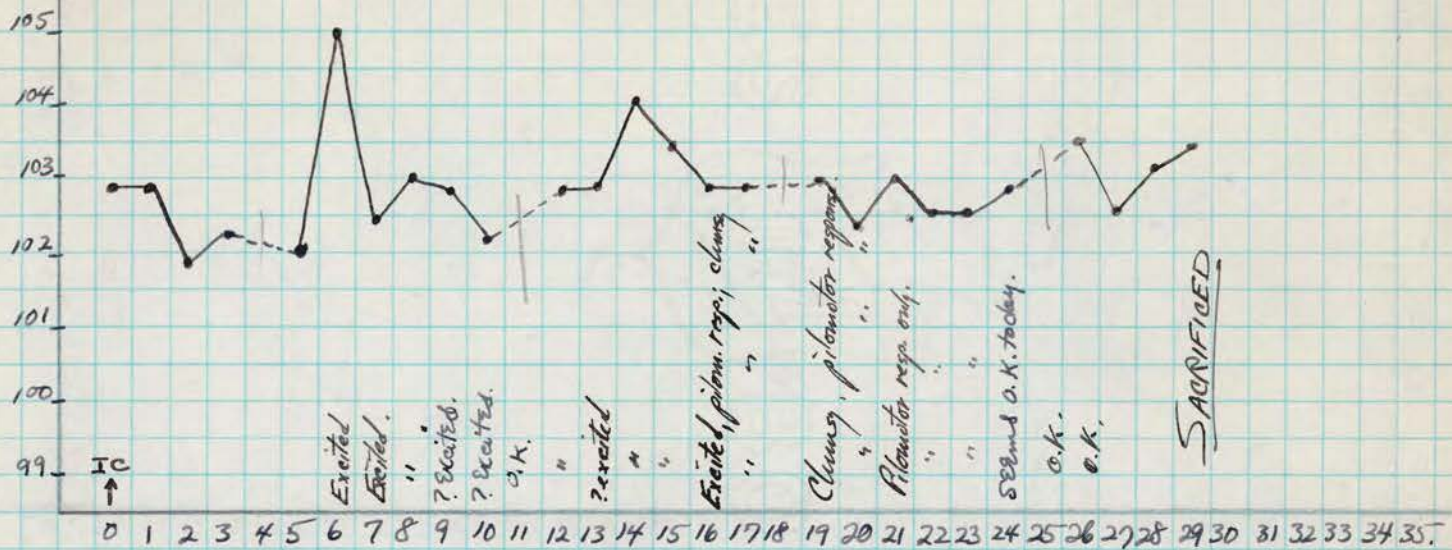
TISSUE FOR SECTION: - Hypothalamus, thalamus, midbrain, pons, ⁴medulla, ²⁰cord levels (Z-A)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO.

MAR 17 1948

R/ #196



3-17-48: Inoc. IC with 0.5 cc of a ^{1:1000} ~~200~~ susp. in saline of [redacted] virus - gen III
 4-15-48: SACRIFICED: (chloroform-ensanguination) Autops; No gross the.
 TISSUE FOR SECTION - 7, hypothalamus, thalamus, midbrain, pons.
 3 ^{levels} medulla, 28 ^{levels} cord levels. (Z-A)

HISTOLOGY: Above levels free of pathology.

DIAGNOSIS: NO POLIO-

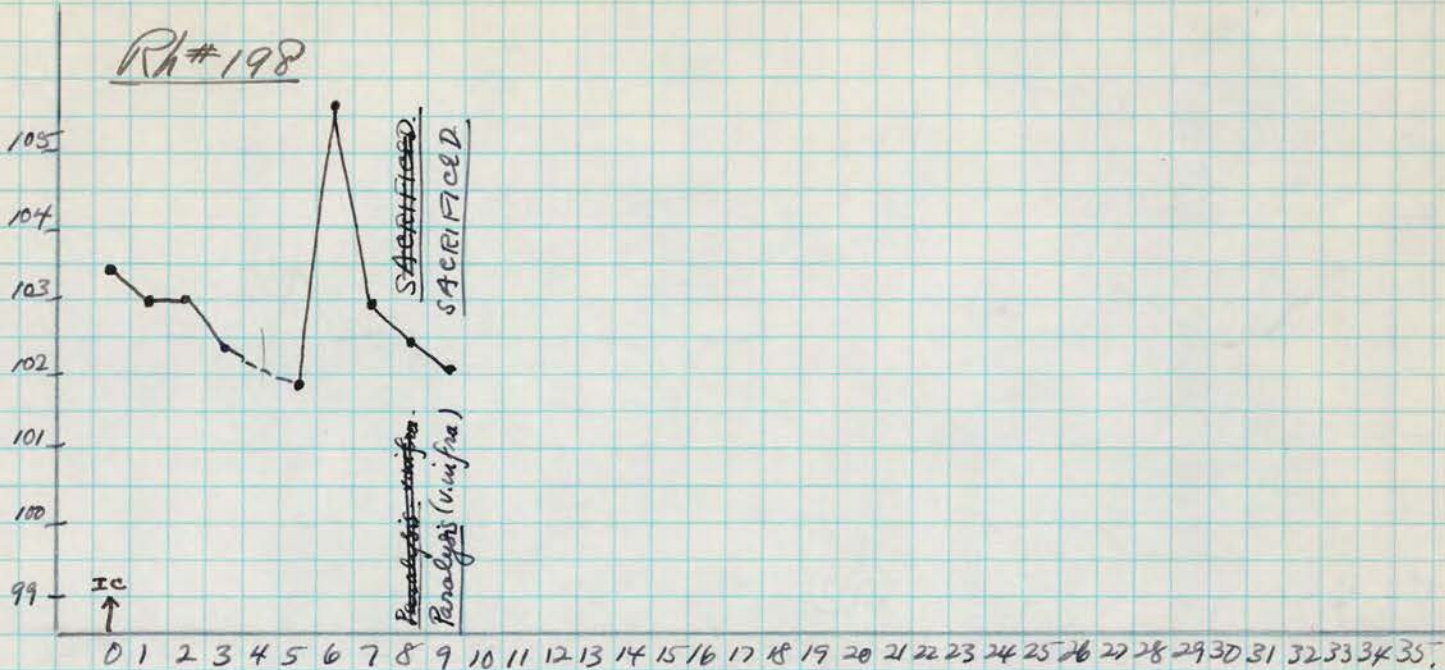
MAR 17 1948

TITRATION

GEN III

10⁻⁴

Rh # 198



3-17-48: Loc. IC with 0.5 cc. of a ^{1:10,000} ~~2%~~ susp in saline of [REDACTED] virus-gen III.

3-25-48 AM tremors; ? clumsy; P.M. Weakness all four extremities.

3-26-48. - Partial paralysis rt. upper and rt. lower; weakness of Lt. upper & left lower; cranial nerves seem o.k. - Sacrificed (chloroform-exsanguination) - Autopsy: no TB.

TISSUE FOR PATHOLOGY: cervical and lumbar cord segments. (Z.A).

TISSUE FOR VIRUS: Cord-medulla frozen in a lusteroid tube (d-8)

3-30-48, Cord thawed; pooled cord Cult: ✓✓
of Rh. 194 (Filt. 10⁻² dilution) g.v.

HISTOLOGY: POLIO (ACUTE)

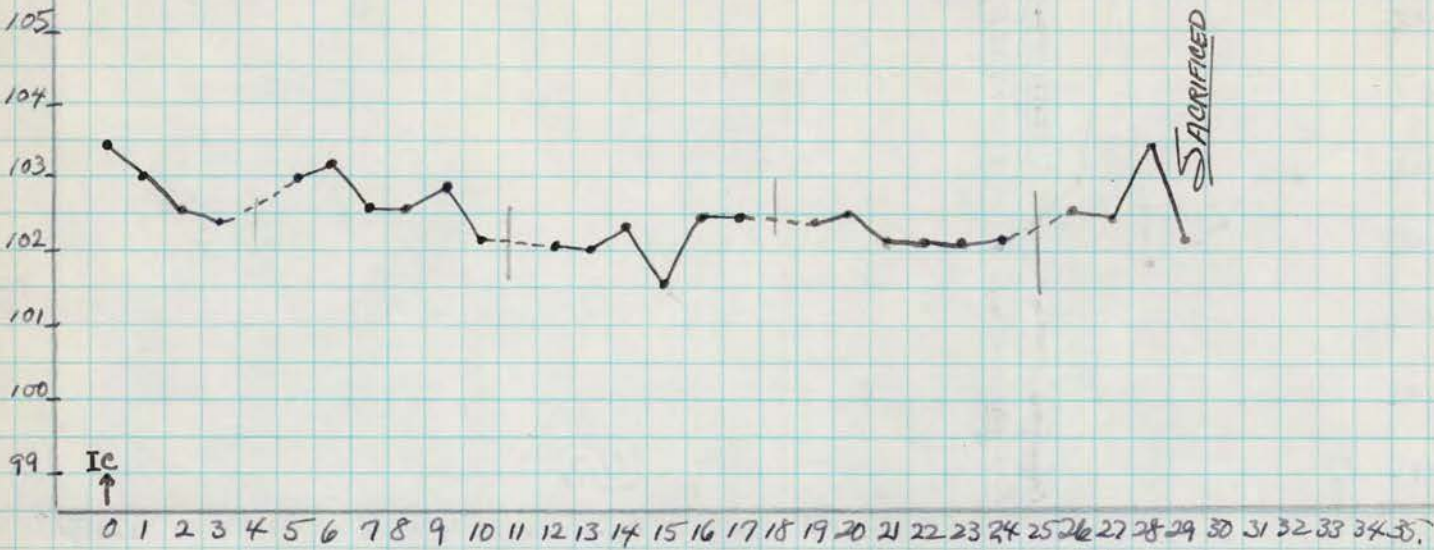
MAR 17 1948

TITRATION

GEN III

10⁻⁴

Rh #199



3-17-48: Inoc. IC with 0.5 cc. of a ^{1:10,000} 20% susp. in saline of [redacted] virus-gen III
 4-15-48: SACRIFICED (chloroform-exsanguination) Autopsy: No gross the.
 TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain,
 pons, medulla, cord levels. (Z.A)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO

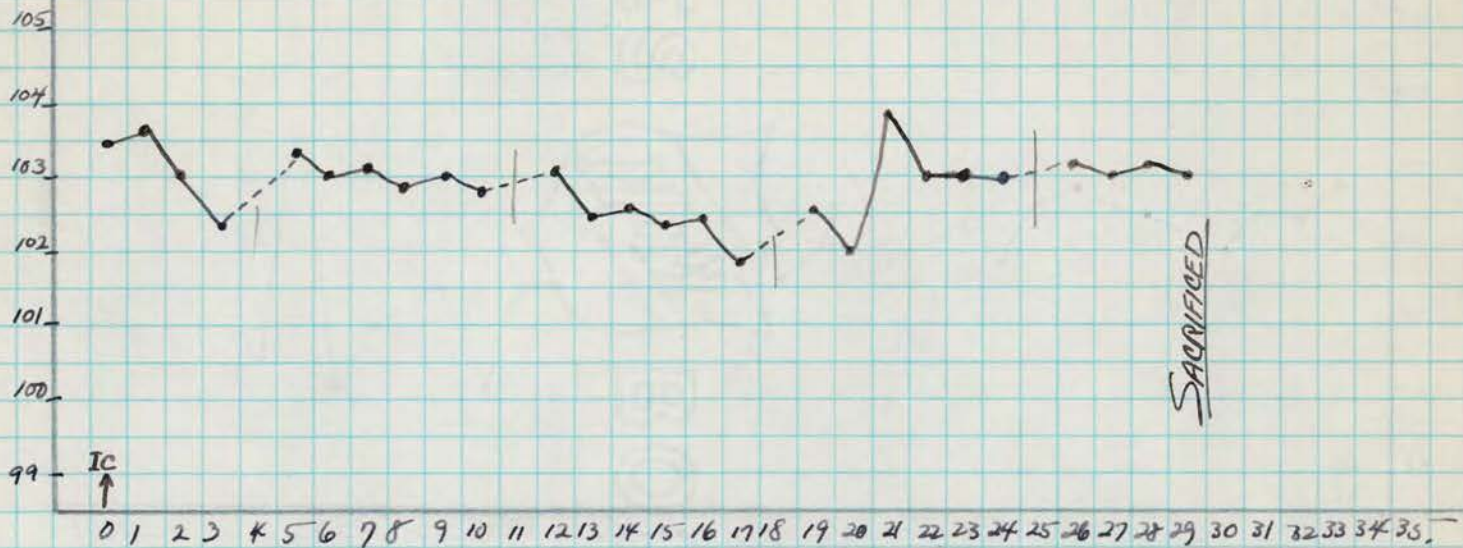
MAR 17 1948

TITRATION

- GEN. III

10⁻⁴

Rh # 200



3-17-48: Inoc. IC with 0.5 cc of a ^{1:10,000} ~~10%~~ susp. in saline of [redacted] - gen III.
 4-15-48: SACRIFICED: (chloroform-exsanguination) Autopsy of gross the.
 TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain,
 pons, ^{4 levels} medulla, ² cord levels (2-1)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO.

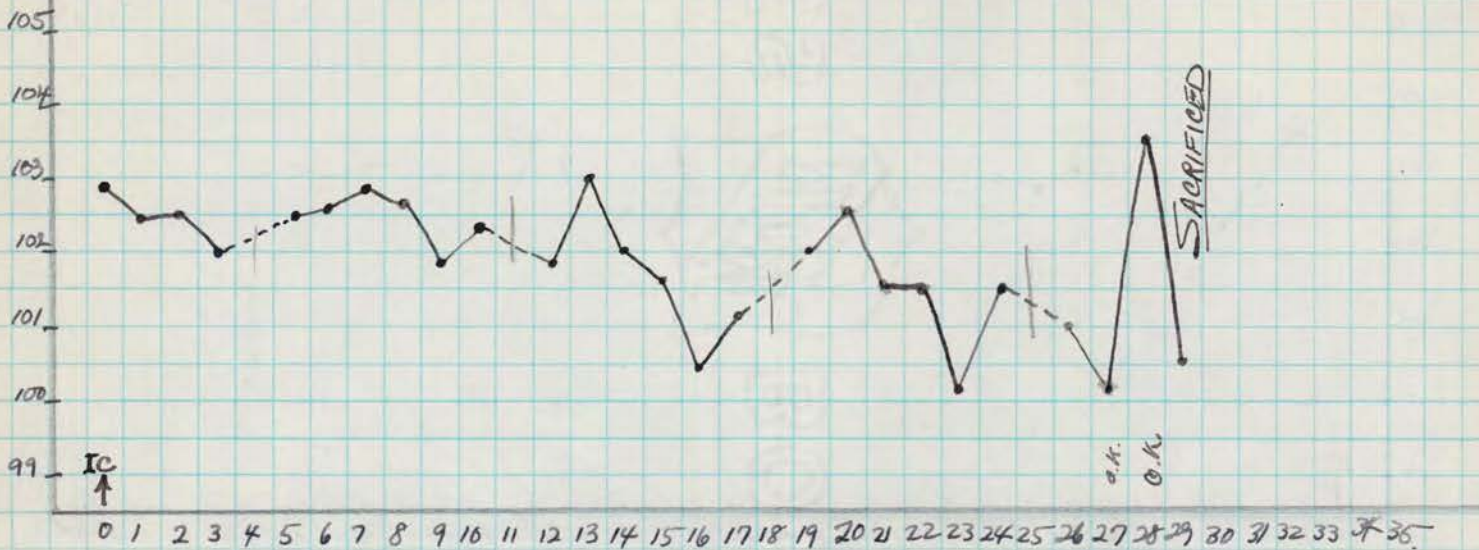
MAR 17 1948

TITRATION

Gen III

10-5

Rh # 201



3-17-48: Inoc. IC with 0.5cc. of a ^{1:100,000} ~~20%~~ susp. in saline [redacted] virus-gen III.

4-15-48: SACRIFICED: (chloroform-~~vers~~anguination) Autopsy: gross pulmonary thromb. found. viscera apparently clear.

TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, ^{3rd ventricle} medulla, ^{2nd} cord levels (Z-A)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO.

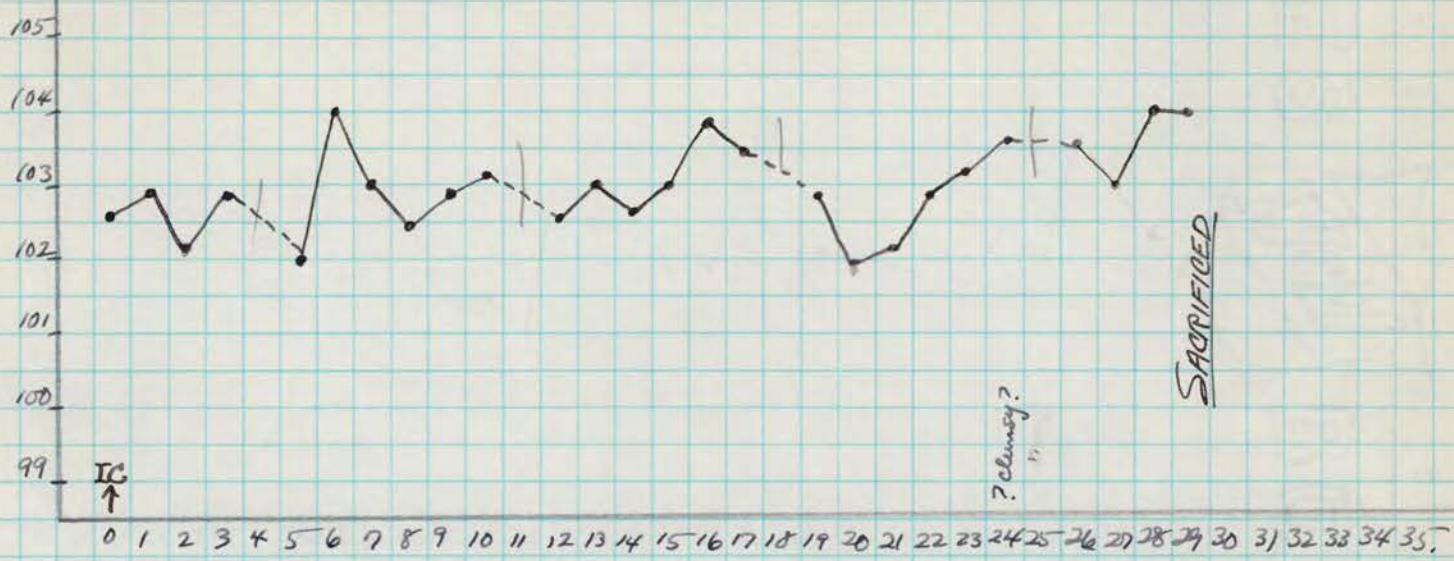
MAR 17 1948

TITRATION

GEN III

10-5

Rh # 202



3-17-48: Inoc. IC with 0.5 cc of a ^{1:100,000} 20% susp. in saline of [redacted] virus - gen III
 4-15-48: SACRIFICED: (chloroform-exsanguination) Autopsy: No gross the.
 TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain,
 pons, ^{2 levels} medulla, ²³ cereb. levels (Z-A)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO

MAR 17 1948

TITRATION

GEN. III

10⁻⁵

Rh #203



3-17-48: Inoc. ^{IC} with 0.5 cc of a ^{1:100,000} 20% susp. in saline of [redacted] virus-gen III

4-15-48: SACRIFICED: (chloroform-exsanguination) [redacted] autopsy, No the.

TISSUE FOR SECTION: Hypothalamus, thalamus, midbrain, pons, ^{3 levels} medulla, ^{2 levels} cord/l. levels. (2-A)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO.

NEUTRALIZATION TESTS IN MONKEYS

STRAIN POLIO VS. SERA.

APR 8 1948

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

SERA USED: two sera from [redacted]

ACUTE: :- 8/27/47. (15th day of illness)

CONVALESCENT: :- 11/28/47 (94th day)

INCUBATION: Serum-virus mixture + ^{saline controls} 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 + saline-virus as indicated below.

FINAL VIRUS CONCENTRATIONS:

	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴
<u>SALINE CONTROL</u>	Rh. 299 Par. 9. +	Rh. 302 O; K31. 0	Rh. 305 O; K31. 0	
	Rh. 300 NO Par. "old polio" +	Rh. 303 Par. 10. +	Rh. 306 Par. 7. +	10 ^{-3.0}
	Rh. 301 Par. 9. +	Rh. 304 O; K31. 0	Rh. 307 O; K31. 0	
<u>ACUTE SERUM (15th day)</u>	Rh. 292 D ₀ . 0	Rh. 289 O; K31. 0	Rh. 293 O; K31. 0	Rh. 296 O; K28. 0
	Rh. 287 Par. 8. +	Rh. 290 O; K31. 0	Rh. 294 O; K31. 0	Rh. 297 O; K28. 0
	Rh. 288 O; K31. 0	Rh. 291 O; K31. 0	Rh. 295 O; K28. 0	Rh. 298 O; K28. 0
<u>CONVALESCENT SERUM (94th day of illness)</u>	Rh. 275 O; K28. 0	Rh. 278 O; K28. 0	Rh. 281 O; K27. 0	Rh. 284 O; K27. 0
	Rh. 276 O; K28. 0	Rh. 279 O; K27. 0	Rh. 282 O; K27. 0	Rh. 285 O; K27. 0
	Rh. 277 O; K28. 0	Rh. 280 O; K27. 0	Rh. 283 O; K27. 0	Rh. 286 O; K27. 0

-10 -10.7

-0.5

APR 9 1948

RH. 299

SALINE CONTROL

10⁻²

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓ T=103°
4-18-48	9	Complete left facial. Clumsy.
4-19-48	10	" " " Complete par. left upper. Par. par. rt. upper. Weakness both lowers, none. Ptosis.
4-20-48	11	Quadriplegia. Complete left facial. Ptosis.
4-21-48	12	" " " " " " " " " " " "
4-22-48	13	" " " " " " " " " " " "
4-23-48	14	" " " " " " " " " " " " - moribund.
		P.M.: SACRIFICED (chloroform-exsanguination) Autopsy No gross tbc. TISSUE FOR SECTION - 2 pieces from each of lumbar and cervical cord levels. (Z-A)

APR 9 1948

RH. 300

SALINE CONTROL

10⁻²

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	→ T=104 ² - ? excited
4-18-48	9	Excited; pilomotor resp.
4-19-48	10	Weakness all 4 extremities. Pilomotor response; tremors.
4-20-48	11	" " " " " " " "
4-21-48	12	" " " " (No focal weakness or paralysis) ? pilomotor response; occ. coarse tremors; clumsy, & flops over occ. T=102 ² .
4-22-48	13	T=102 ² Clumsy, flops over. (Same)
4-23-48	14	T=103 ² Clumsy, flops over easily, coarse tremors, weakness all 4 exts.
4-24-48	15	T=102 ² Only change is inc. increase of tremors. No focal weakness.
4-25-48	16	Weakness of all 4 extremities; head tremors. -
4-26-48	17	T=102 ⁶ - No change.
4-27-48	18	T=102 ⁷ - " "
4-28-48	19	T=101 ⁸ - " "
4-29-48	20	T=101 ⁹ - " "
4-30-48	21	T=102 ² " "
5-1-48	22	T=102 ⁸ Still has head tremors; 4 extremities a little stronger.
5-2-48	23	No change.
5-3-48	24	" T=102 ⁵ .
5-4-48	25	T=102 ² Same.
5-5-48	26	T=101 ² "
5-6-48	27	T=102 ⁷ "
5-7-48	28	T=102 ⁰ "
5-8-48	29	T=101 ⁶ - Weakness all 4 extremities; tremors; pilomotor response..
5-9-48	30	Weakness of all 4 extremities; tremors especially of head.
5-10-48	31	T=101 ⁶ Same. SACRIFICED (chloroform-exsanguination) TISSUE FOR SECTION - thalamus, hypothalamus, midbrain, pons, medulla, cord levels (7-A)

APR 9 1948
RH. 301

SALINE CONTROL

10-2

DATE DAY REMARKS

4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	T=104 ⁶ Excited, pilomotor response.
4-18-48	9	Complete left facial; pilomotor response. Chumsy.
4-19-48	10	" " " ; weakness of all 4 extremities and voice.
4-20-48	11	" " " ; par. par. both lowers. Weakness neck, back, voice.
4-21-48	12	" " " ; comp. " " " ; Weakness left up. " " "
4-22-48	13	No change.
4-23-48	14	Comp. left facial; comp. par. both lowers; p.p. both uppers. Back, neck only weak - he can almost pull himself to sitting position & back muscles and s. support from arms. Voice O.K. Alert.
4-24-48	15	Same.
4-25-48	16	Can close left eye now! but lower left face still paralyzed; still has compl. par. both lowers; uppers getting stronger.
4-26-48	17	Left eye closes 2/3 of way following muscle fatigue by repeated attempts to force him to close it. Can flip from one side to other now with aid of his rapidly strengthening uppers. Marked pilomotor response. Coarse tremors.
4-27-48	18	Continuing gradual improvement.
4-28-48	19	" " "
4-29-48	20	Same.
4-30-48	21	"
5-1-48	22	Much stronger; residual facial
5-2-48	23	Same
5-3-48	24	Sitting up all the time - facial persists.
5-4-48	25	Improved.
5-5-48	26	"
5-6-48	27	"
5-7-48	28	"
5-8-48	29	Partial paralysis both lowers; lower left facial weakness.
5-9-48	30	Part. par. both lowers; facial weakness (left).
5-10-48	31	Same.
5-21-48		Par. par. both lowers. Left facial weakness persists.
6-1-48		No change.
6-6-48		"

6-9-48 - Bled for serum.

Part. Par. of both lowers.

7-8-48 - Bled (40 cc) for serum. (73 mAb)

8-28-48 serum of 7-8-48 showed 8.4% removed for forming N.T.

Weakness of both lowers.

Diarrhea; extreme emaciation, gasping for breath; died during this examination.

Bled immediately postmortem → 10.0 cc serum.

Autopsy: CNS into Z-A.; no gross TBC.; rectal prolapse.

TISSUES FOR SECTION: lung; - caudate nucleus; sup. colliculus and inf. colliculus w/vel. medulla; 6 Cervical; 9 Thoracic; and 5 lumbar nerve with roots intact. C2 A.

HISTOLOGY: lung shows extensive atelectasis, congestion with numerous hematin pigment laden phagocytes; endobronchial exudate occluding smaller bronchi.

Cord - all levels show extensive root degeneration; much neuronal outfall; glial infiltration of ant. & lateral horn areas. - Adjacent neurons appear OK. Medulla - shows very little PV cuffing; loosely scattered glial infiltration particularly in reticular formation; midbrain and caudate nucleus regions show very mild PV cuffing with scattered loosely arranged glial cell infiltration.

DIAGNOSIS: POHIO (old).

APR 9 1948
RH. 302

SALINE CONTROL

10-3

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓ T=102 ²
4-18-48	9	✓
4-19-48	10	Weakness both Lungs, both loaves, back ✓ T=102 ²
4-20-48	11	✓ T=101 ²
4-21-48	12	✓ T=101 ²
4-22-48	13	✓ T=100 ²
4-23-48	14	✓ T=101 ²
4-24-48	15	✓ T=101 ²
4-25-48	16	✓
4-26-48	17	✓ T=102 ²
4-27-48	18	✓ T=101 ²
4-28-48	19	✓ T=101 ²
4-29-48	20	✓ T=101
4-30-48	21	✓ T=102
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓ <u>SACRIFICED</u> (chloroform-anaesthesia) TISSUE FOR SECTION - Thalamus, hypothalamus, midbrain, pons, medulla, cord levels. (2-A)

APR 9 1948
RH. 303

SALINE CONTROL

10⁻³

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓ T=103 ²
4-18-48	9	✓
4-19-48	10	Weakness left upper, both lowers, back. T=104 ² P.M.: P.p. both lowers, left upper. Weakness right upper, back, neck T=102 ²
4-20-48	11	Par. par. all 4 extremities. Weak neck, back!
4-21-48	12	<u>Quadriplegia</u> . Voice very weak.
4-22-48	13	" - moribund. SACRIFICED: (chloroform-exsanguination) Autopsy - No gross tbc. TISSUE FOR SECTION - 2 pieces from each of cervical and lumbar cord levels. (2-A)

APR 9 1948
RH. 304

SALINE CONTROL

10⁻³

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓ T=103°
4-17-48	8	T=103 ² ✓
4-18-48	9	✓
4-19-48	10	✓ T=102 ⁴
4-20-48	11	✓ T=102 ⁶
4-21-48	12	✓ T=102°
4-22-48	13	✓ T=101°
4-23-48	14	✓ T=102 ⁸
4-24-48	15	✓ T=100 ⁶
4-25-48	16	✓
4-26-48	17	✓ T=102 ⁴
4-27-48	18	✓ T=102 ⁶
4-28-48	19	✓ T=102 ²
4-29-48	20	✓ T=102 ⁸
4-30-48	21	✓ T=102 ⁸
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓

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

APR 9 1948
RH. 305

SALINE CONTROL

10⁻⁴

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓ T=102 ⁸
4-17-48	8	T=104 ⁸ ✓
4-18-48	9	✓
4-19-48	10	Marked plemotor response; excited. T=104 ⁸
4-20-48	11	Plemotor response. T=102 ⁸
4-21-48	12	T=102 ⁸ O.K.
4-22-48	13	T=102 ⁸ O.K.
	14	✓
	15	✓
	16	✓
4-26-48	17	T=103 ⁶ ✓
4-27-48	18	T=103 ⁴ ✓
4-28-48	19	✓ T=103 ²
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓ SACRIFICED (chloroform-exsanguination) TISSUE FOR SECTION - thalamus, hypothalamus, midbrain, pons, medulla, cord levels (2-A)

APR 9 1948

RH. 306

SALINE CONTROL

10⁻⁴

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	A.M. Par. par. left upper. Weakness rt. upper and both lowers, back, voice. P.M.: T=100 ^o . Unchanged.
4-17-48	8	T=99 ^o . Complete par both lowers. Par. par. both uppers, back, neck. Aphonia. <u>SACRIFICED!</u> (Microform-exsanguination) Autopsy: no tbc. TISSUE FOR SECTION - Portions of cervical and lumbar cord (Z-A) TISSUE FOR VIRUS: Remainder of cord-medulla made into a 20% suspension in sterile saline. Wt. of cord ± 6.0 gms. Amount of saline = 24 cc. ± 21 cc. frozen in 1-20 cc amp (Vial 1) and 2-10 cc pumps (Vials 2, 3) and stored. B-7-3 Culture: X 1 st day: Contaminated with 10 small white round, smooth non-hem colonies showing on Gm. stain Gram ⁺ cocci resembling Staph. 2 nd day: no change. 1 additional colony found today <u>not</u> within incubation area. Similar org.

APR 9 1948

RH.# 307

HOMOLOGOUS

NEUTRALIZATION

TEST

SALINE

CONTROL

10⁻⁴

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓ T=102 ²
4-17-48	8	T=102 ⁶
4-18-48	9	✓
4-19-48	10	T=103 ² ✓
4-20-48	11	T=103 ² ✓
4-21-48	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓

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

APR 9 1948

RH. 287

ACUTE SERUM

10⁻¹

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓ T=102 ²
4-16-48	7	A.M. : Chumsy, pilomotor response. P.M.: T=104 ² Unchanged.
4-17-48	8	T=103 ² Comp. par. left upper. Par. par. rt. upper and both lowers, back, neck. Voice gone.
4-18-48	9	Prostrate. Quadriplegia. Apnoea.
4-19-48	10	No change.
4-20-48	11	" "
4-21-48	12	Found <u>dead</u> in a.m. Autopsy: No gross bc. TISSUE FOR SECTION - 2 portions each from lumbar, and cervical cord (Z-A)

APR 9 1948
RH. 288

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM

10⁻¹

DATE DAY REMARKS

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

5-10-48

31

✓ SACRIFICED (chloroform-oxanguination)
TISSUE FOR SECTION - thalamus, hypothalamus, midbrain,
pons, medulla, cerebellum (Z-A)

APR 9 1948

RH. 292

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM

10⁻¹

DATE DAY REMARKS

4-9-48 0 ✓

4-10-48 1 ✓

4-11-48 2 ✓

4-12-48 3 ✓

4-13-48 4 ✓

4-14-48 5 ✓

4-15-48 6 ✗

~~4-16-48 ✗~~

✗ Found DEAD in cage in a.m.

Autopsy: No evidence of strangulation, of cervical vertebrae fracture. Thorax and abdomen revealed no gross pathology.

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

APP 9 1948
 1948 6 807

HOMOLOGOUS

NEUTRALIZATION

TEST

RH. 289

ACUTE

SERUM

10^{-2}

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓
4-18-48	9	✓
4-19-48	10	✓
4-20-48	11	T=102 ² ✓
4-21-48	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓ SACRIFICED (chloroform-exsanguination) TISSUE FOR SECTION - thalamus, hypothalamus, midbrain, pons, medulla, cord levels (2A)

APR 9 1948
RH. 290

ACUTE SERUM 10^{-2}

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓
4-18-48	9	✓
4-19-48	10	Weakness left upper. $T=102^{\circ}$
4-20-48	11	" " " " $T=101^{\circ}$ (Ulceration on terminal phalangeal joint of middle finger left hand probably responsible for apparent "weakness" of left upper.)
4-21-48	12	✓
4-22-48	13	✓ $T=101^{\circ}$
4-23-48	14	✓ $T=100^{\circ}$
4-24-48	15	✓ $T=99^{\circ}$
	16	✓
4-26-48	17	✓ $T=100^{\circ}$
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓ <u>SACRIFICED</u> (chloroform-exsanguination) TISSUE FOR SECTION - thalamus, hypothalamus, midbrain, pons, medulla, cord levels (2-A)

APR 9 1948

RH. 291

HOMOLOGOUS

NEUTRALIZATION

TEST

ACUTE SERUM

10⁻²

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

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

APR 9 1948
RH. 293

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM 10⁻³

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

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

APR 9 1948

RH. 294

HOMOLOGOUS

NEUTRALIZATION

TEST

ACUTE

SERUM

10⁻³

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓
4-18-48	9	✓
4-19-48	10	✓
4-20-48	11	✓
4-21-48	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
5-10-48	31	✓ SACRIFICED (chloroform-exasanguination) TISSUE FOR SECTION - Thalamus hypothalamus, midbrain, pons, medulla, cord levels (Z-A)

APR 9 1948
RH. 295

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM

10⁻³

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓
4-18-48	9	✓
4-19-48	10	✓
4-20-48	11	✓
4-21-48	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-7-48	28	✓ SACRIFICED (chloroform-exasanguination) TISSUE FOR SECTION - thalamus, hypothalamus, midbrain, pons, medulla, cord levels (Z.A.)

APR 9 1948

RH. 296

HOMOLOGOUS

NEUTRALIZATION

TEST

ACUTE

SERUM

10⁻⁴

DATE	DAY	REMARKS
4-9-48	0	✓
4-10-48	1	✓
4-11-48	2	✓
4-12-48	3	✓
4-13-48	4	✓
4-14-48	5	✓
4-15-48	6	✓
4-16-48	7	✓
4-17-48	8	✓
4-18-48	9	✓
4-19-48	10	✓
4-20-48	11	✓
4-21-48	12	✓
	13	✓
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
5-7-48	28	✓ SACRIFICED (chloroform-exsanguination) TISSUE FOR SECTION - Hypothalamus, thalamus, midbrain, pons, medulla, 'cord levels' (2A)

APR 9 1948

RH. 297

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM

10-4

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

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, cerebellum (2-A)

APR 9 1948

RH. 298

HOMOLOGOUS NEUTRALIZATION TEST

ACUTE SERUM 10⁻⁴

DATE DAY REMARKS

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

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

APR 9 1948
RH. 275

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

10⁻¹

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

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

8-25-48

APR 9 1948

RH. 276

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

10⁻¹

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

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

APR 9 1948
RH. 277

CONVALESCENT SERUM

10⁻¹

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

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

APR 9 1948

RH. 278

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

10⁻²

DATE DAY REMARKS

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

SACRIFICED (chloroform-exsanguination)
 TISSUE FOR SECTION - thalamus, hypothalamus,
 midbrain, pons, medulla, cord levels (2-4)

APR 9 1948

RH. 279

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

 10^{-2}

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

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

APR 9 1948

RH. 280

HOMOLOGOUS

NEUTRALIZATION

TEST

CONVALESCENT SERUM

10⁻²

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

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

APR 9 1948

HOMOLOGOUS NEUTRALIZATION TEST

RH. 281

CONVALESCENT SERUM

10⁻³

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

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

APR 9 1948
RH. 282

CONVALESCENT SERUM

10⁻³

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

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

APR 9 1948
RH. 283

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

10^{-3}

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

APR 9 1948

RH. 284

HOMOLOGOUS

NEUTRALIZATION

TEST

CONVALESCENT SERUM

10-4

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

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

APR 9 1948

RH. 285

CONVALESCENT SERUM

10⁻⁴

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

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

APR 9 1948

RH. 286

HOMOLOGOUS NEUTRALIZATION TEST

CONVALESCENT SERUM

10⁻⁴

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

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

HOMOLOGOUS NEUTRALIZATION TEST - SERUM DILUTION

DILUTIONS OF SERA VS. STRAIN VIRUS

6-13-48.

VIRUS USED: Generation III of [redacted] strain of [redacted] - same pool as used for the initial titration of this virus (3-16-48) - and for neutralization test of 4-8-48.

SERA USED: Two sera of [redacted]
 ACUTE :- 8/27/47. (1st day of illness)
 CONVALESCENT :- 11/28/47. (94th day.)

INCUBATION :- Serum-virus and ^{virus} saline dilutions as indicated in table below made up. Incubated at room temp. (72°F) for one hour; then in ice box (3°C) for ± 15 hrs overnight. Then into ~~water~~ bath during inoculation on morning of 6-14-48. (1:20)

MONKEYS: Normal rhesus 4 per serum-dilution and control; 3 per saline control dilutions of 10⁻²; 10⁻³; 10⁻⁴. (N.F.P. - N.C. monkey farm)

INOCULUM: 0.5 cc I.C. per monkey.

SERUM - DILUTION TEST

FINAL VIRUS CONCENTRATION = 1:20

(Equal parts corresponding serum dilution and 1:10 virus)

SERUM DILUTIONS:

SERUM	UNDILUTED	1:4	1:16	1:64
ACUTE 8/27/47 1st day	Rh. <u>585</u> ⁺	Rh. <u>589</u> _{0:K36} ⁻ ○	Rh. <u>593</u> _{Par.18}	Rh. <u>597</u> _{0:K35} ○
	<u>586</u> ⁺	<u>590</u> _{Par.7}	<u>594</u> _{0:K36} ○	<u>598</u> _{0:K35} ○
	<u>587</u> ⁺	<u>591</u> _{Par.11}	<u>595</u> _{Par.12}	<u>599</u> _{Par.14}
	<u>588</u> ⁺	<u>592</u> _{Par.7}	<u>596</u> _{Par.15}	<u>600</u> _{Par.14}
CONVALESCENT 11/28/47 (94th day)	Rh. <u>601</u> _{0:K35}	Rh. <u>605</u> ⁺	Rh. <u>609</u> ⁺	Rh. <u>613</u> _{0:K35} ○
	<u>602</u> ⁺	<u>606</u> ⁺	<u>610</u> ⁺	<u>614</u> _{0:K35} ○
	<u>603</u> _{D.1}	<u>607</u> ⁺	<u>611</u> ⁺	<u>615</u> _{0:K35} ○
	<u>604</u> _{K43}	<u>608</u> ⁺	<u>612</u> ⁺	<u>616</u> _{Par.11}

VIRUS CONCENTRATIONS:

	1:20	1:100	1:1000	1:10,000
SALINE	Rh. <u>572</u> _{Par.19}	Rh. <u>576</u> _{Par.16}	Rh. <u>579</u> _{D29} ○	Rh. <u>582</u> _{0:K35} ○
	<u>573</u> _{Par.12}	<u>577</u> _{Par.10}	<u>580</u> _{0:K35} ○	<u>583</u> _{Par.24}
CONTROL	<u>574</u> _{Par.9}	<u>578</u> _{Par.14}	<u>581</u> _{Par.10}	<u>584</u> _{Par.7}
	<u>575</u> _{Par.18}			

† = No clinical abnormality after 35 days observation; converted to X monkeys for further use.

Rh. # 572

Saline Control 1:20 virus

JUN 14 1948

	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
	16	✓ P.M. Temp. = 106° F - clinically O.K. -
	17	✓ T = 104°
6-7-2-48	18	Weakness of lowers T = 104°
7-3-48	19	Part Par. of both lowers
	20	No change
	21	Same.
	22	"
	23	Part. Par. both lowers
	24	No change
	25	Part. Par. both lowers
	26	No change
	27	" " right left
7-12-48	28	Part par. left lower, Weak right lower
	29	No change
	30	" "
	31	Part par. right lower, Weak left lower
	32	No change
	33	" "
	34	" "
	35	" "
	36	" "
7-22-48	38	" "
7-27-48	43	Part. Par. right lower, Weak left lower
8-5-48	52	Part. Par. right lower
8-20-48	67	✓
9-15-48	92	<u>Bled for Serum.</u> - Then <u>challenged with Homologous Virus</u> (see record).

Ph. # 573 -

Saline Control 1:20 virus

JUN 14 1948

	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
6-26-48	12	Partial Paralysis of both lowers, Weakness both uppers.
	13	unchanged.
	14	" "
	15	No change
	16	Same
	17	Partial paralysis of both lowers, Weakness of both uppers
	18	No change
	19	Same
	20	"
	21	No change
	22	" "
	23	Part. par. both lowers, Weakness of both uppers.
	24	No change
	25	" "
	26	" "
	27	" "
	28	No change
	29	" "
	30	" "
7-15-48	31	Compl. Par. left lower; Part. Par. right lower.
	32	No change
	33	" "
	34	" "
	35	" "
	36	" "
7-22-48	38	Part. Par. both lowers.
7-27-48	43	Part. Par. both lowers.
8-5-48	52	No change
8-20-48	67	Weakness both lowers.
9-15-48	92	Bled for serum. - Then challenged with homologous virus (see record.)

Rh. # 574 -

Saline Control 1:20 ^{1/18/5}

JUN 14 1948

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓
7	✓
8	✓

6-23-48

9 Partial Paralysis of both lowers and right upper; Weakness of left upper

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross ltr

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

TISSUE FOR VIRUS: Cord and medulla of Rh 574 pooled with that of

Rh 584 to make a 20% susp. in (36.0 cc) sterile saline.

Pooled Weight = 8.8 gms. ± 31. cc of susp. frozen in 3-20 cc amps.

Vials #1, 2, and 3 stored (B-3-8)

Culture: ✓✓✓

11-19-48 tissues for section discarded

Rh. # 575

Saline Control 1:20 views

JUN 14 1948

	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
6-30-48	16	T=1047: definitely excited
7-1-48	17	Head tremors; Weakness of both lowers; holds head toward right T=1038
7-2-48	18	Comp. paralysis of both lowers; Part par. of uppers.
	19	No change
	20	" "
	21	" "
	22	" "
	23	No change
	24	" "
7-9-48	25	Quadriplegia
	26	No change
	27	" "
	28	" "
	29	" "
	30	" "
	31	" "
7-16-48	32	Quadriplegia; Partial right facial.
	33	No change
	34	" "
	35	" "
	36	" "
7-22-48	38	" "
7-29-48	43	Quadriplegia
8-5-48	52	No change
8-20-48	67	Quadriplegia
8-25-48	72	Moribund - Died at 9 ⁰⁰ A.M. Autopsy: no gross the

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

HISTOLOGY: Extensive loss of neurones, more marked in lumbar than in cervical cord; Extensive root degeneration; moderate PR infiltration; glial infiltration of ant. horn.

DIAGNOSIS: POLIO ("old")

Rh. # 576

Saline Control 1:100 VIRUS

JUN 14 1948

- | | | |
|---------|----|---|
| | 0 | ✓ |
| | 1 | ✓ |
| | 2 | ✓ |
| | 3 | ✓ |
| | 4 | ✓ |
| | 5 | ✓ |
| | 6 | ✓ |
| | 7 | ✓ |
| | 8 | ✓ |
| | 9 | ✓ |
| | 10 | ✓ |
| | 11 | ✓ |
| | 12 | ✓ |
| | 13 | ✓ |
| | 14 | ✓ |
| 6-29-48 | 15 | easily exhausted - Weakness of both lowers and right upper |
| 6-30-48 | 16 | Part. paralysis of all extremities. Weak back. |
| 7-1-48 | 17 | Comp. paralysis of right upper; Part. par. other 3 extremities |
| | 18 | No change |
| | 19 | Same |
| | 20 | " |
| | 21 | Quadruplegia , prostrate Comp. paralysis both lowers and right upper; partial par left upper |
| | 22 | No change |
| | 23 | Same |
| | 24 | No change |
| 7-9-48 | 25 | Quadruplegia |
| | 26 | <u>FOUND DEAD</u> |

AUTOPSY: No gross the
TISSUE FOR SECTION Single segments of lumbar and cervical cord and medulla.

Tissue sections of lumbar and cervical cord very soft. Good section of medulla obtained

11-19-48 tissues discarded.

Bh. # 577-

Saline Control 1:100 virus

JUN 14 1948

- | | | | |
|---------|-----|---|--|
| | 0 | ✓ | |
| | 1 | ✓ | |
| | 2 | ✓ | |
| | 3 | ✓ | |
| | 4 | ✓ | |
| | 5 | ✓ | |
| | 6 | ✓ | |
| | 7 | ✓ | |
| | 8 | ✓ | |
| | 9 | ✓ | |
| 6-24-48 | 10 | | Compl. Paralysis of left upper. Weakness of other three extremities
-6-24-48- Bled for serum. |
| | 11 | | Compl. Par. of left upper. Weakness of the other extremities |
| 6-26-48 | 12 | | Compl. Par. left upper. Part par. other 3 extremities |
| | 13 | | Same plus weakness of voice. |
| | 14 | | No change |
| | 15 | | Same |
| | 16 | | No change |
| | 17 | | Compl. paralysis of left upper. Part. par. other 3 extremities |
| | 18 | | No change |
| | 19 | | Same |
| | 20 | | " |
| | 21 | | " |
| | 22 | | " |
| | 23 | | No change |
| | 24 | | " |
| | 25 | | Paralysis left upper; Part. par. other 3 extremities |
| | 26 | | No change |
| | 27 | | " " |
| | 28 | | " " |
| 7-14-48 | 29 | | " " Bled for serum. |
| | 30 | | " " |
| | 31 | | Compl. Par. left upper; Part. par. other 3 extremities |
| | 32 | | No change |
| | 33 | | " " |
| | 34 | | " " |
| | 35 | | " " |
| | 36 | | " " |
| 7-22-48 | 38 | | " " |
| 8-5-48 | 52 | | No change |
| 8-20-48 | 67 | | Compl. Par. left upper. Part. Par. both lowers |
| 9-15-48 | 92. | | Bled for serum. - Then challenged with homologous virus (see record) |

Rh. # 578

Saline Control 1:100 virus.

JUN 14 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	
	10	✓	
	11	✓	
	12	✓	
	13	✓	
6-28-48	14	Part. par. both lowers.	
	15	Same	
	16	No change	
7-1-48	17	Compl. paralysis of right lower, Part par. left lower, Weak upper.	
	18	no change	
	19	Same	
	20	"	
	21	"	
	22	"	
	23	No change	
	24	"	
7-9-48	25	Compl. par. both lowers, Weakness both uppers.	
	26	No change	
	27	" "	
	28	" "	
	29	" "	
	30	" "	
7-15-48	31	Compl. par. right lower, Part par. other 3 extremities	
	32	No change	
	33	" "	
	34	" "	
	35	" "	
	36	" "	
7-22-48	38	No change	
8-5-48	52	" "	
9-15-48	92	<u>Bled for serum. - Then challenged with homologous virus. (see record)</u>	

D. #579

Saline Control 1:1000 views.

JUN 14 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓
8 ✓
9 ✓
10 ✓
11 ✓
12 ✓
13 ✓

6-28-48

14 Weakness of both lowers, Disinclined to climb (General weakness not focal)

15 O.K.-

16 T₂ 1014 seems O.K.

17 ✓

18 ✓

19 ✓

20 ✓

21 ✓

22 ✓

23 ✓

24 ✓

25 ✓

26 ✓

27 ✓

28 ✓ Disinclined to climb; General weakness; thin

7-13-48

29 FOUND DEAD

AUTOPSY: No gross lcs.

TISSUE FOR SECTION Single segments of lumbar, thoracic and cervical cord, medulla, thalamus and midbrain (z.A.)

Tissue for section extremely soft. - Cord sections very soft. Poor sections of medulla, thalamus, midbrain obtained.

HISTOLOGY: The only sections suitable for examination are Thalamus, midbrain, medulla - and the roots attached to the cord levels, but not the gray matter itself. - These show no polio pathology.

DIAGNOSIS:

NO POLIO EVIDENCE

Rh. # 580

Saline Control 1:1000 virus

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 35 ✓

7-19-48
7-

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - No gross Hx

TISSUE FOR SECTION - Lung segments of lumbar, thoracic and cervical cord; medulla, midbrain and thalamus (card. nucleus) ZA.

HISTOLOGY: Above sections show no pathological changes.

DIAGNOSIS: NO POLIO.

Ph. # 581

Saline Control 1:1000 Virus

JUN 14 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 8 ✓
- 9 ✓

6-24-48

10 Compl. paralysis of right upper. Part. par. of both lowers.

-Bled for serum - 6-24-48

6-25-48

11 Compl. par. of right upper; Part. par. both lowers and left upper.

12 No change

13 No change.

14 " "

15 Same

16 No change

17 Compl. par. of right upper; Part. par. other 3 extremities

18 No change

19 Same

20 "

21 "

22 No change

23 " "

24 " "

25 Compl. par. right upper; Part. par. both lowers; Weak left upper

26 No change

27 " "

7-12-48

28 Compl. par. right upper; Weakness both lowers.

29 No change

30 " "

31 Compl. par. right upper; Part. Par. both lowers.

7-16-48

32 Same Bled for serum

33 " "

34 " "

35 " "

36 " "

7-22-48

38 No change

8-5-48

52 " "

8-20-48

67 Compl. Par. rt. upper & right lower; Part. Par. left lower. Very thin.

9-6-48

84. DEAD: Autopsy: no gross TBC.

TISSUE FOR SECTION: (for old changes): - spinal cord: medulla; midbrain; Thalamus (Z-A).

11-19-48 tissues discarded

Ph. # 582

~~1:1000~~ ~~1:1000~~ ~~1:1000~~
Saline Control, 1:10,000 ~~1:1000~~

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 7-14-48 35 ✓

SACRIFICED - (Chloroform - exsanguination)

AUTOPSY - No gross TBC

TISSUE FOR SECTION - Single segments of lumbar, thoracic and cervical cord; medulla, midbrain and thalamus → ZA.
(Midbrain & Thalamus discarded 9/21/48).

HISTORICAL: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO.

Rh. #583-

Saline Control 1:10,000 Virus.

JUN 14 1948

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

^{OK} Partial paralysis of a/c & extremities; cranial nerves + virus A.K.

- 23 ✓ ? Weakness of both lowers.
- 7-8-48 24 Part. Par. both lowers
- 25 No change
- 26 " "
- 27 " "
- 28 " "
- 29 " "
- 30 " "
- 31 " "

- 7-16-48 32 Part. Par. of both lowers
- 33 No change
- 34 " "
- 35 " "
- 36 Same

- 7-22-48 38 No change
- 8-5-48 52 " "

- 8-20-48 67 slight weakness both lowers
- 9-15-48 92 Bled for serum. - Then challenged with homologous virus. (see record)

Polio - Homologous Neutralization Test - Serum Dilution Method - [redacted] strain.

Rh. # 584

~~1:20~~ FINAL

Saline Control 1:10,000 VIRUS

JUN 14 1948

0
1
2
3
4
5
6
7

✓
✓
✓
✓
✓
✓
✓

6-21-48

Partial paralysis of all 4 Extremities; cranial nerves + voice OK.
Sacrificed (Chloroform exsanguination) - Autopsy - no gross TBC.
TIES OF FOR SECTION: number + cerebral cord segments.

TISSUE FOR VIRUS: Remainder of cord-medulla in two spinal tubes. (d-9)
Contact Culture: - ✓✓

6-23-48 Cord & medulla of Rh 584 thawed and pooled with Rh 574 to make a 20% susp in saline. (see latter).

11-19-48 Tissues for section discarded

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

VIRUS 1:20 - FINAL

Rh. # 585

Acute Serum - undiluted

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35

✓ Observation Terminated. Monkey tag number changed to 585 X; so that monkey can be used again
8-16-48 RL 585X used for Ternant Neutralization Test.

Rh. 586

Acute Serum - undiluted

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35

✓ Observation Terminated. Monkey tag number changed to 586X, so that monkey can be used again
8-16-48 Rh 586X used for Survant Neutralization Test

Rh. 587

Acute Serum - undiluted

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-14-48

✓ Observation terminated Monkey tag number changed to 587 X;
so that monkey can be used again
8-16-48 Rh 587X used for Sumant Neutralization Test.

Ph. 588

Acute Serum - undiluted

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 7-19-48 35 ✓

Observation terminated Monkey tag number changed
to 588X so that monkey can be used again
8-16-48 Ph 588X used for Tennant Neutralization Test.

Rh. # 589

Acute Serum - 1:4

JUN. 14 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 ✓
- 33 ✓
- 34 ✓
- 35 ✓
- 36 ✓

7-70-48

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - No Gross TBC

TISSUE FOR SECTION - Single segments of lumbar, thoracic and cervical cord; 2 medulla, thalamus and midbrain → ZA. (Thalamus and midbrain discarded 9/21/48.)

HISTOLOGY: NO pathologic changes

DIAGNOSIS: NO POLIO

Rh. # 590

Acute Serum 1:4

JUN 14 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓

7 Compl. par. lt. upper; part. par. rt. upper + both lowers; weak voice; weak neck + back.

6-22-48

8 Quadriplegia; aphonia - Bled for serum

9 No change

10 " "

11 Same

12 No change

13 No change

14 " "

15 No change

16 Same

17 AM Quadriplegia - aphonia

18 No change P.M. FOUND DEAD

AUTOPSY: No gross tbc
TISSUE FOR SECTION ⁽²⁾ high segments of lumbar and
(1) cervical cord (2A)

HISTOLOGY:

Extensive neuronal loss, with foci of glial and round cell clusters, marked PV infiltration; and lumbar cord shows beginning root degeneration.

DIAGNOSIS: POLIO (acute to recent)

Rh. # 591

Acute Serum 1:4

JUN 14 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	
	10	✓	
6-25-48	11		Wt Compl. Par. of left upper; Part Par of right upper and both lowers.
	12		Compl. Par. right upper and right lower; Part par. left upper & left lower.
	13		No change.
	14		" "
	15		No change
	16		Same
	17		Compl. paralysis of lowers and right upper; Part par. of left upper.
	18		No change
	19		Same
	20		" "
	21		no change
	22		" "
	23		" "
	24		No change
	25		" "
	26		" "
	27		" "
	28		" "
	29		" "
	30		" "
	31		" "
	32		Compl. Par. both lowers; Part Par both upper; Compl. right wrist drop
	33		No change
	34		" "
	35		" "
	36		" "
7-22-48	38		Compl. Par. lowers & right upper; Part Par. left upper.
8-5-48	52		No change
8-20-48	67		Compl. Par both upper & right lower; Part Par. left lower.
9-7-48			<u>FOUND DEAD</u>
			Due to condition of dead monkey, no tissue for sectioning taken and animal was <u>discarded</u> .

Rh. #592

Acute Serum 1:4

JUN 14 1948

- | | | |
|---------|----|--|
| | 0 | ✓ |
| | 1 | ✓ |
| | 2 | ✓ |
| | 3 | ✓ |
| | 4 | ✓ |
| | 5 | ✓ |
| | 6 | ✓ |
| | 7 | Partial paralysis all 4 Extre; voice weak. |
| 6-22-48 | 8 | Complete paralysis both uppers and right lower; partial paralysis left lower - <u>Bled for serum</u> |
| | 9 | No change |
| | 10 | Same |
| 6-25-48 | 11 | Quadriplegia |
| | 12 | Same |
| | 13 | Same. |
| | 14 | " |
| | 15 | No change |
| | 16 | " " |
| | 17 | Quadriplegia - Weak voice |
| | 18 | No change |
| | 19 | " " |
| | 20 | " " |
| | 21 | " " |
| | 22 | " " |
| | 23 | " " |
| | 24 | " " |
| 7-9-48 | 25 | Compl. Par. both lowers; Part. par. both uppers. |
| | 26 | No change |
| | 27 | " " |
| | 28 | " " |
| | 29 | " " |
| | 30 | " " |
| | 31 | " " |
| 7-16-48 | 32 | No change <u>Bled for serum</u> |
| | | <u>Died</u> during bleeding. Post mortem blood of 50 cc obtained |
| | | <u>AUTOPSY</u> : No gross ltr |
| | | <u>TISSUE FOR SECTION</u> : single segments of lumbar & cervical cord (Z.A.) |

11-19-48 tissues discarded

Rh. # 594

Acute Serum 1:16

JUN 14 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 6-22-48 8 Thin
- 9 Thin - easily exhausted
- 10 Same
- 11 tires quickly
- 12 ✓
- 13 Thin; no diarrhea; no weakness lower.
- 14 ✓
- 15 ✓
- 16 ✓
- 17 ✓
- 18 ✓
- 19 ✓
- 20 ✓
- 21 ✓
- 22 ✓
- 23 ✓
- 24 ✓
- 25 ✓
- 26 ✓
- 27 ✓
- 28 ✓
- 29 ✓
- 30 ✓ diarrhea
- 31 ✓ severe diarrhea
- 32 ✓ " "
- 33 ✓ " "
- 34 ✓ " "
- 35 ✓ " "
- 7-20-48 36 ✓

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - no gross TBC

TISSUE FOR SECTION (2) Spinal segments of lumbar, thoracic (1) and cervical cord (2) medulla, thalamus and midbrain → Z.A.

(Thalamus + midbrain discarded 9/21/48).

HISTOLOGY.

Above segments free of pathology.

DIAGNOSIS: NO POLIO

Polio - Homologous Neutralization Test - Serum Dilution Method

VIRES 1:20 ANAL

Ph. # 595

Acute Serum 1:16

JUN 14 1948

	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
6-22-48	8	Easily exhausted
	9	" " "
6-24-48	10	Disinclined to climb; Clumsy, T=105°
	11	Same T=104°
6-26-48	12	Partial Par. of both lowers & left upper; Weakness right upper.
	13	NO change.
6-28-48	14	Part. par. of all extremities
	15	Same
	16	"
	17	Partial paralysis of all extremities
	18	no change
	19	Same
	20	"
	21	Same.
	22	"
	23	"
	24	No change
	25	Part. paralysis of all extremities
	26	No change
	27	" "
7-12-48	28	Part. par. of both lowers. Weak uppers
	29	No change
	30	" "
7-15-48	31	Part. Par. right upper and both lowers; Weak left upper.
	32	No change
	33	" "
	34	" "
	35	" "
7-22-48	38	Part Par both lowers
8-5-48	52	No change
8-20-48	67	Part. Par. both lowers.
9-15-48	92	<u>Bled for serum. Then challenged with homologous virus. (see record)</u>

Rh. # 596

Acute Serum 1:16

JUN 14 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 8 ✓
- 9 ✓
- 10 ✓
- 11 ✓
- 12 ✓
- 13 ✓
- 14 ✓

6-24-48

15

Partial paralysis - all four extremities; voice O.K.

6-30-48

16

Quadriplegia - Weak voice

7-1-48

17

FOUND DEAD

AUTOPSY: No gross the

TISSUE FOR SECTION Single segments of lumbar & cervical cord; medulla (2A)

11-19-48 Tissues discarded

Polio - Homologous Neutralization Test - Serum Dilution Method - [redacted] strain
VIRUS 1:20 FINAL

Rh. # 597

Acute Serum 1:64

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 35 ✓

diarrhea

"
"

7-19-48

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - no gross TBC

TISSUE FOR SECTION - Single segments of lumbar, thoracic and cervical cord; medulla, thalamus (caudate) and midbrain → ZA.

HISTOLOGY: Sections reveal no pathological changes.

DIAGNOSIS: NO POLIO

Rh. # 598

Acute Scream 1.64

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 35 ✓

7-19-48

SACRIFICED - (Chloroform - Exsanguination)

AUTOPSY - No gross TBC

TISSUE FOR SECTION - Single segments of lumbar, thoracic and cervical cord; medulla, thalamus and midbrain → Z.A.

(Thalamus + midbrain discarded 9/21/48.)

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Rh. # 599

Acute Serum 1:64

JUN 14 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	
	10	✓	
	11	✓	
6-26-48	12		Disinclined to climb. def. weakness of both lowers. weak voice
	13		Weakness both lowers; ? weakness of left upper; no paralysis.
6-28-48	14		Compl. Par. of left lower; Part par. right lower and both uppers.
	15		No change
	16		" "
	17		Compl. par. of lowers and left upper. Part par. right upper.
	18		No change
	19		Same
	20		" "
	21		" "
	22		" "
	23		" "
	24		No change
	25		" "
	26		" "
	27		" "
	28		" "
	29		" "
	30		" "
	31		" "
	32		Compl. par. both lowers & left upper; Part par. right upper; aphonía. Compl. bilat. wrist drop.
	33		No change
	34		" "
	35		" "
7-22-48	38		No change
8-5-48	52		" "
8-20-48	67		Compl. par. both lowers & right upper; Part. Par. left upper
8-29-48	76		DEAD: Autopsy: emaciated; atrophic extremities; no gross Tbc.

TISSUE FOR HISTOLOGY: several segments of lumbar and cervical cord; segment Thoracic. (2-A)

HISTOLOGY: lumbar cord shows marked root degeneration, neuronal loss and considerable glial infiltration of anti. horns. Thoracic same but less marked; cervical still less marked. Ant. horns show considerable numbers of round as well as glial cell infiltration.

DIAGNOSIS: POLIO "old"

Rh. # 600

Acute Serum 1:64

JUN 14 1948

- | | | | |
|---------|----|---|--|
| | 0 | ✓ | |
| | 1 | ✓ | mild diarrhea. |
| | 2 | ✓ | |
| | 3 | ✓ | |
| | 4 | ✓ | |
| | 5 | ✓ | |
| | 6 | ✓ | |
| | 7 | ✓ | |
| | 8 | ✓ | |
| | 9 | ✓ | |
| | 10 | ✓ | |
| | 11 | ✓ | mild diarrhea |
| | 12 | ✓ | |
| | 13 | ✓ | |
| 6-28-48 | 14 | | Part. par. of both lowers. Weak back. |
| 6-29-48 | 15 | | Compl. Paralysis of both lowers, Part par. both uppers |
| | 16 | | No change |
| 7-1-48 | 17 | | Compl. par. of lowers, Part par. uppers Part right facial. |
| | 18 | | No change |
| | 19 | | Same |
| | 20 | | " |
| | 21 | | " |
| | 22 | | " |
| | 23 | | " |
| | 24 | | " |
| | 25 | | No change |
| | 26 | | " |
| | 27 | | " |
| | 28 | | " |
| | 29 | | " |
| | 30 | | " |
| | 31 | | " |
| | 32 | | Compl. par. both lowers, Part. Par. both uppers, |
| | 33 | | No change |
| | 34 | | " " |
| | 35 | | " " |
| 7-22-48 | 38 | | " " |
| 8-5-48 | 52 | | Compl. Par. both lowers. Weakness both uppers. |
| 8-20-48 | 67 | | Compl. Par. both lowers. Weakness both uppers. |
| 9-15-48 | 92 | | <u>Bled for serum. - Then challenged with homologous virus. (see record)</u> |

Ph. # 601

Convalescent Serum - undiluted

JUN 14 1948

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓
7	marked diarrhea.
8	✓
9	✓
10	✓
11	✓
12	marked diarrhea
13	Mod. diarrhea.
6-28-48 14	mod. diarrhea, small, ? weakness of lower
15	" " " " " "
16	diarrhea, ? weakness of lower
17	diarrhea upward.
18	diarrhea
19	diarrhea
20	✓
21	✓
22	thin
23	✓
24	thin diarrhea
25	" "
26	" "
27	" "
28	" "
29	General weakness - diarrhea
30	" " "
31	Same
32	thin and diarrhea
33	" " "
34	" diarrhea
7-19-48 35	" " Observation terminated Monkey tag number changed to <u>601 X</u> so that monkey can be used again
7-25-48 41	<u>DEAD: Autopsy</u> : no gross TB; Emaciated. -

TISSUE FOR HISTOLOGY: lumbar; Thoracic; cervical cord levels; medulla; (thalamus and midbrain.) (2A)

discarded 9/21/48.

11-19-48 tissues discarded

Rh. # 602

Convalescent Serum-undiluted

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35

✓ Observation Terminated

Monkey tag number changed to 602 X;
so that monkey can be used again

8.31-48 - Given to Drs. Salvin - Gemboa for plasma id exp't.

Ph. # 603

Convalescent Serum - undiluted

JUN 14 1948

0
1
2
3
4
5
6
7
8
9
10
11

✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓

DEAD - Autopsy: 1) left upper lobe dark red, airless, either infarction or pneumonia. - NO gross TB. 2) Heavy, ossophagostrom infestation. 3) Gall bladder - enormously distended, walls thick and indurated; contents purulent; no obstruction thru to ampulla of Vater; no distension of common bile duct
TISSUE FOR PATHOLOGY: Cord levels; medulla; midbrain; Oculomotor; also gall bladder + left upper lobe. (Z-A)
11-19-48 tissues discarded

Ph. # 604

Cavalescent Serum - undiluted

JUN 14 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 8 ✓
- 9 ✓
- 10 ✓
- 11 ✓
- 12 ✓
- 13 ✓
- 14 mod. diarrhea
- 15 " "
- 16 " "
- 17 ✓
- 18 ✓
- 19 ✓
- 20 ✓
- 21 ✓
- 22 Disinclined to climb; clumsy
- 23 ✓
- 24 ✓
- 25 thin upward
- 26 thin; diarrhea
- 27 ✓
- 28 ✓
- 29 ✓ thin General Weakness - diarrhea
- 30 ✓ " " " "
- 31 ✓ Same
- 32 " "
- 33 " "
- 34 slow General Weakness

7-19-48

35

Some — observation terminated

Monkey tag number changed to 604-X;
so that monkey can be used again

7-27-48

43

SACRIFICED (chloroform - exsanguination)
TISSUE FOR SECTION single segments of lumbar, thoracic and
cervical cord, medulla; {thalamus and midbrain} (Z.A.)
discarded 9/17/48.

11-19-48 tissues discarded

Polio - Homologous Neutralization Test - Serum Dilution Method - [redacted] strain

Rh. # 605

VIRUS 1:20 - FINAL

Convalescent Serum 1:4

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 7-19-48 35 ✓

Observation terminated

Monkey tag number changed to 605 X, so that monkey can be used again

9-7-48 Rh 605X given to Drs. Salim and Hambou for plasmaid control

Rh. # 606

Convalescent Serum 1:4

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35

✓ Observation Terminated

Monkey tag number changed to 606 X; so that
monkey can be used again

9-7-48 Rh 606X given to Drs. Sabin and Hambra for Plasmaid control

Rh. # 607

Convalescent Serum 1:4

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35

✓ Observation Terminated
 Monkey tag number changed to 607 X; so that monkey
 can be used again.
9-28-48. Used for Risner Neutr. test. (g.v.)

Rh. #608

Convalescent Serum 1:4

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 35 ✓

7-19-48

Observation Terminated
Monkey tag number changed to 608 X, so that
monkey can be used again
9-28-48 - Used for Riser neutr. test. (g.v.)

Rh. # 609

Convalescent Serum 1:16

JUN 14 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 ✓
- 33 ✓
- 34 ✓

7-19-48

35 ✓

Observation Terminated
 Monkey tag number changed to 609 X; so that
 monkey can be used again
8-31-48. Given to Drs. Sabin-Gamba for plasmaeid expt.

Rh. #610

Convalescent Serum 1:16

JUN 14 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	✓
33	✓
34	✓
7-19-48 35	✓

Observation Terminated

Monkey tag number changed to 610 X, so that
monkey can be used again

9-7-48 Rh 610X given to Drs. Salin and Munkova for Plasmaid Control

Polio - - Homologous Neutralization Test - Serum Dilution Method strain.
 VIRUS 1:20 FINAL

Rh # 611

Convalescent Serum 1:16

JUN 14 1948

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

7-19-48

35 ✓ Observation Terminated
 Monkey tag number changed to 611 X; so that
 monkey can be used again.
 8/31/48. - Given to Drs. Gamboa Selin for plasmaeid exp't.

RK# 612

Convalescent Serum 1:16

JUN 14 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 | ✓ |
| 33 | ✓ |
| 34 | ✓ |
| 35 | ✓ |

7-19-48

Observation Terminated
Monkey tag number changed to 612 X so that
monkey can be used again.
8-31-48 - Given to Drs. Damboa-Sabin for plasmaeid expt.

Rh. # 613

Convalescent Serum 1:64

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 7-19-48 35 ✓

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - no gross TBC

TISSUE FOR SECTION - Single segments of lumbar, thoracic, and cervical cord; medulla, thalamus, and midbrain → ZA. (Thal. + midbr. discarded 9/17/48)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO.

Rh # 614

Convalescent Serum 1:64

JUN 14 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 ✓
- 33 ✓
- 34 ✓
- 7-19-48 35 ✓

SACRIFICED - (chloroform = exsanguination)

AUTOPSY - No gross TB

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

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

Polio - Homologous Neutralization Test - Serum Dilution Method strain

VIRUS 1:20 - FINAL

Rh. # 615

Convalescent Serum 1:64

JUN 14 1948

0	✓	
1	✓	
2	✓	
3	✓	
4	✓	
5	✓	
6	✓	
7	✓	
8	✓	
9	✓	
10	✓	
11	✓	mild diarrhea
12	✓	"
13	✓	"
14	✓	"
15	✓	"
16	✓	
17	✓	
18	✓	
19	✓	
20	✓	
21	✓	
22	✓	
23	✓	diarrhea
24	✓	"
25	✓	
26	✓	
27	✓	
28	✓	
29	✓	
30	✓	
31	✓	mild diarrhea
32	✓	"
33	✓	"
34	✓	"
35	✓	"

7-19-48

SACRIFICED - (Chloroform - exsanguination)

AUTOPSY - No gross BC

TISSUE FOR SECTION - Single segments of lumbar, thoracic and lumbar cord; medulla, thalamus, and midbrain → 2A. (Medulla + midbr. discarded 9/17/48)

HISTOLOGY: Above levels reveal no pathology.

DIAGNOSIS: NO POLIO

Rh. # 616.

Convalescent Serum 1:64

JUN 14 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	
6-24-48	10		Diminished to climb; Clumsy.
6-25-48	11		Partial Paralysis of all extremities; marked tremors
	12		Same
	13		Same plus marked pilomotor response.
	14		No change
	15		Compl. Par. right lower; Part. Par. other extremities
	16		No change
	16		" "
	17		No change
	18		Same
	20		No change
	21		Part. par. both lowers.
	22		No change
	23		" "
7-8-48	24		Compl. Par right lower; Part par. left lower
	25		No change
	26		" "
	27		" "
	28		" "
	29		" "
	30		" "
	31		Part Par. both lowers.
	32		No change
	33		" "
	34		" "
	35		" "
7-22-48	38		No change
8-5-48	52		" "
8-20-48	67		Part. Par both lowers.
9-15-48	92		Bled for serum. Died. (cardiac tamponade at Autopsy - NO gross ltr.)

TISSUES FOR SECTION: for study of old changes - most of the spinal cord in segments; 3 levels medulla; 1 pons; midbrain; Thalamus. (Z.A.)

11-19-48 Tissues discarded