

Polio 1947.

RICE

Rice, Patsy.

Cincinnati.

RICE, PATSY G. - Age - 7 months (Born 12-30-46) (white)

Address: 1339 Walnut St. Cincinnati, O.

"Fever" in evening of 8/9/47 + "slobbered" more than usual
 "runny nose" from 8/7 to 8/9 but did not appear ill
 "Gen. convulsion" on 8/12/47 - taken to hosp. but sent home with
 "red liquid" medicine for "throat"

8/14 - Screamed on movement of right lower extremity and
 unable to move it. Also unable to sit up which
 child had been doing before.
 Admitted 8/14 - temp 103.4°

left-sided facial weakness + widening of left
 palpebral fissure + paralysis of right lower
 extremity and of back noted on admission.

L.P. = 39 WBC, 1625 RBC - Pandy pos.

8/14 - BLOOD OBTAINED (Stored in refig. overnight - separated 8/15)

8/15 - Saline enema without solid returns - spontan. solid
 stool several hours later added to enema
Throat swabs

8-15 - 3 P.M. Temp 104.2° - Resp. regular but 48/min.

Left facial weakness + palpebr. fiss. wid. not very
 definite.

Paralysis of rt. lower - incomplete (can withdraw
 extrem. from painful stimuli
 applied to foot)

WK? of left lower.

Neck & back stiff

Uppers O.K. - eyes, pupils, tongue - O.K.

(O.K.)

8-15 - Throat swabs I obtained
Saline enema + later formed stool obtained

8-16 - Still febrile - condition same
Throat swabs II
Saline Enema II

8-17 - Still febrile - condition same
Throat swabs III
Saline Enema III

8-19 - still febrile - breathing O.K. Takes her formula now
 although some difficulty in swallowing noted
 on 8/18 (over)

8.23 - Afebrile - Blood spec II

8-30 - transferred to Children's Hospital

Disch. 12-22-47 to Home. as a Ward of the state in care
of Dr. E.H. White. (Orthopedist)

Clinic JE, 28, 1948.

exam 2 Aug. 1948. (10³⁰ A.M.)

Clinic Visit to Orthopedics 8/30/48.

Bled $\pm$ 14 cc by Dr. Little (Serrum V)

RICE, PATSY.

A. STOOLS-

11/5/47. - Estimated Solids - 55 gms. -
Fluid Present - ± 200 c.c.
Dist. Water Added - 100 c.c.

Blended for one minute at low speed $\rightarrow \pm 350$ cc. of blend.

For Centrifugation $\pm 270cc.$

For Centrifugation ± 270 cc.
For Refreezing ± 100 c.c. (Box "C")

First Supernatant - 150 cc. - 15% Ether added (23.0 $\frac{\text{g}}{\text{ml}}$)
A.T.S.

Untreated Sediment - 36.0 cc for intranasal inoculation.

11/6/47. - Final Amount Treated Stool Suspension = 115 c.c.

Culture (Before Final Centrifugation). - ✓✓✓✓

Culture (Before Final Centrifugation). - ✓✓✓✓
Culture (After " ") - ✓✓✓✓

RICE, PATSY-

NOV 5 1947

B. Pharyngeal Swab Material.

Final Amount :- 2.4 c.c.

Culture :- ✓✓✓✓

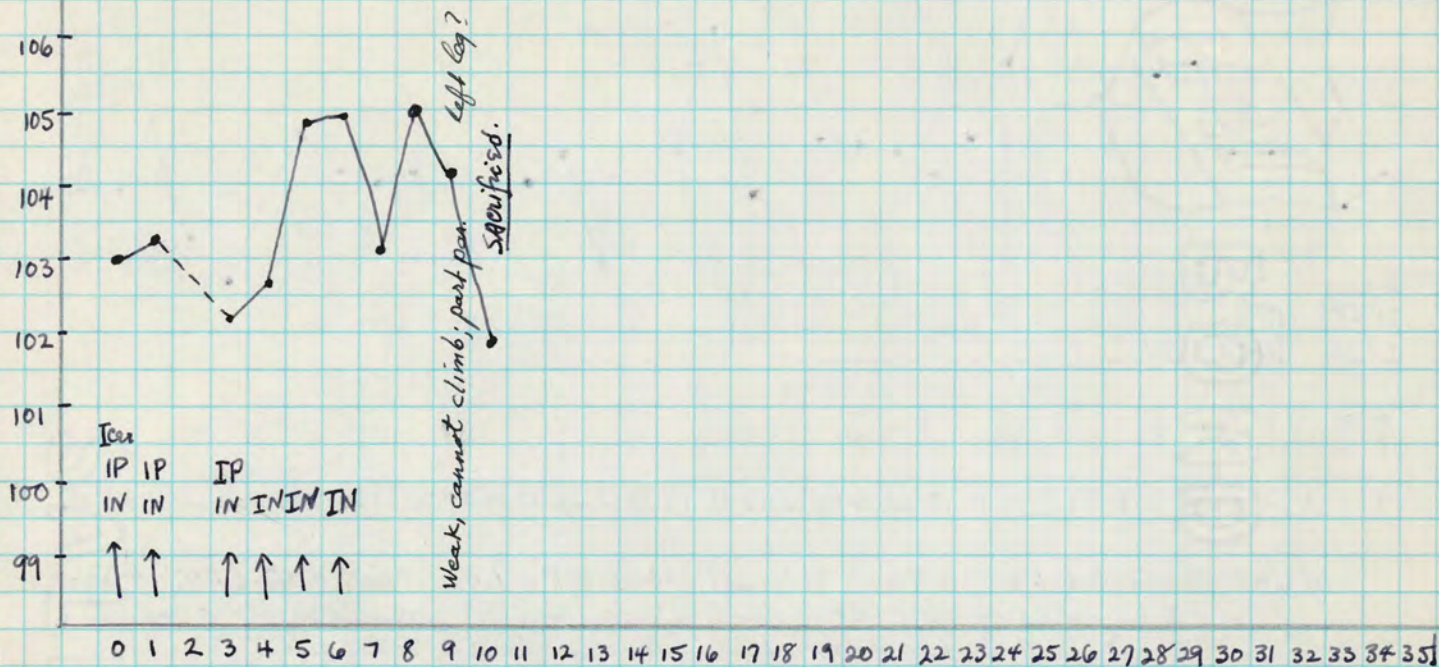
NOV 7 1947

RICE, PATSY.

Treated Pharyngeal Swabs - Icer.
Treated Stool Suspension - IP
Untreated Stool Sediment - IN.

Culture
vuv
vuv

Rhesus #1.



11/7/47. - Inoculated 0.9 c.c. Icer; 20.0 c.c. IP; 1.0 c.c. IN each nostril.

11/10/47 - IP injection was 17.0 c.c.

11/17/47. - Partial paralysis arms, legs, and back. - Cranial nerves intact. - Sacrificed with chloroform. - COLON CONTENTS - - Frozen in large Lusteroid (Storage box #2)

HISTOPATHOLOGY: portion of cord levels and medulla. (ZA)

TISSUE FOR VIRUS: - portions of cord and medulla frozen in a Lusteroid tube. (d-8) wt=3.0g

No gross evidence of tbc.

12/1/47. Passed to Rh. #17 and Rh. #18 g.v.; ± 5% remainder of 20% susp. frozen (B-1-9)

Dec 5

Histology - Polio +

NOV 7 1947

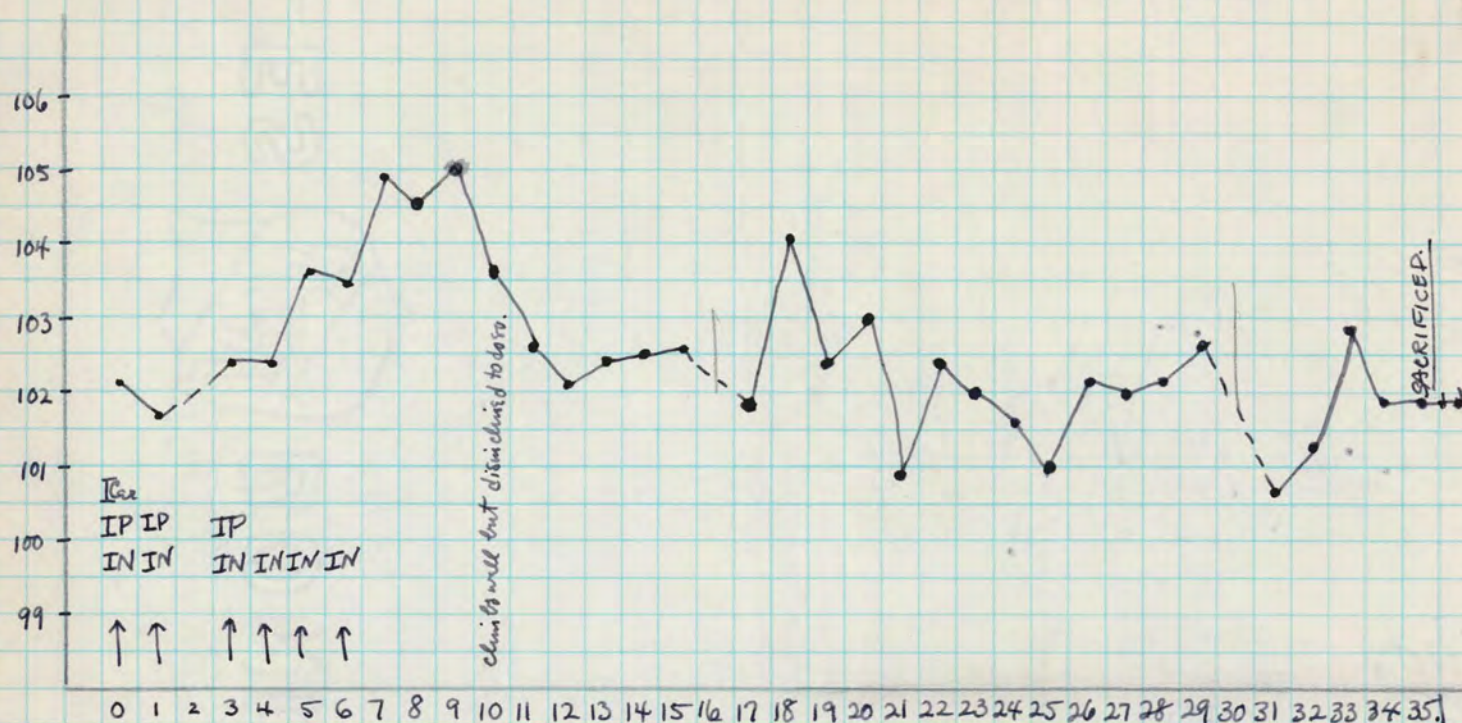
RICE, PATSY

Rhesus # 897 - splenectomized.

Treated Pharyngeal Swabs - ICR.

Treated Stool Suspension - IP

Untreated Stool Suspension - IN



11/7/47. Inoculated 1.25 c.c. ICR. (Thalamus); 20 c.c. IP; 1.0 c.c. each nostril IN. - Following immediately after left Thalamic injection, monkey extended right leg and when released was noted to keep head turned sharply to the right.

11/8/47. - Hold well all limbs; disinclined to climb; keeps head sharply turned to right.

11/10/47. - Limbs seem OK; holds head sharply turned to right; IP injection today = 17.0 c.c.

11/17/47. - Able to climb but disinclined to do so - difficult to evaluate - holds head turned around to the right.

11/19/47. - Full power all limbs and back; no cranial nerve signs; head turned to the right.

11/20/47. - Head turned to right; seems OK. Otherwise.

11/25/47. - Head turned to right; no other signs; temp. 104° (temp. rechecked.)

12-12-47 sacrificed with chloroform - exsanguination. - Autopsy: Extensive bilateral pulmonary tuberculosis; also TBC of liver; - small accessory spleen in gastrosplenic mesentery.

HISTOPATHOLOGY: Numerous segments of spinal cord and medulla taken; also thalamus; - (also accessory spleen). - (ZA)

HISTOLOGY: ND POLIO

DEC 1 1947

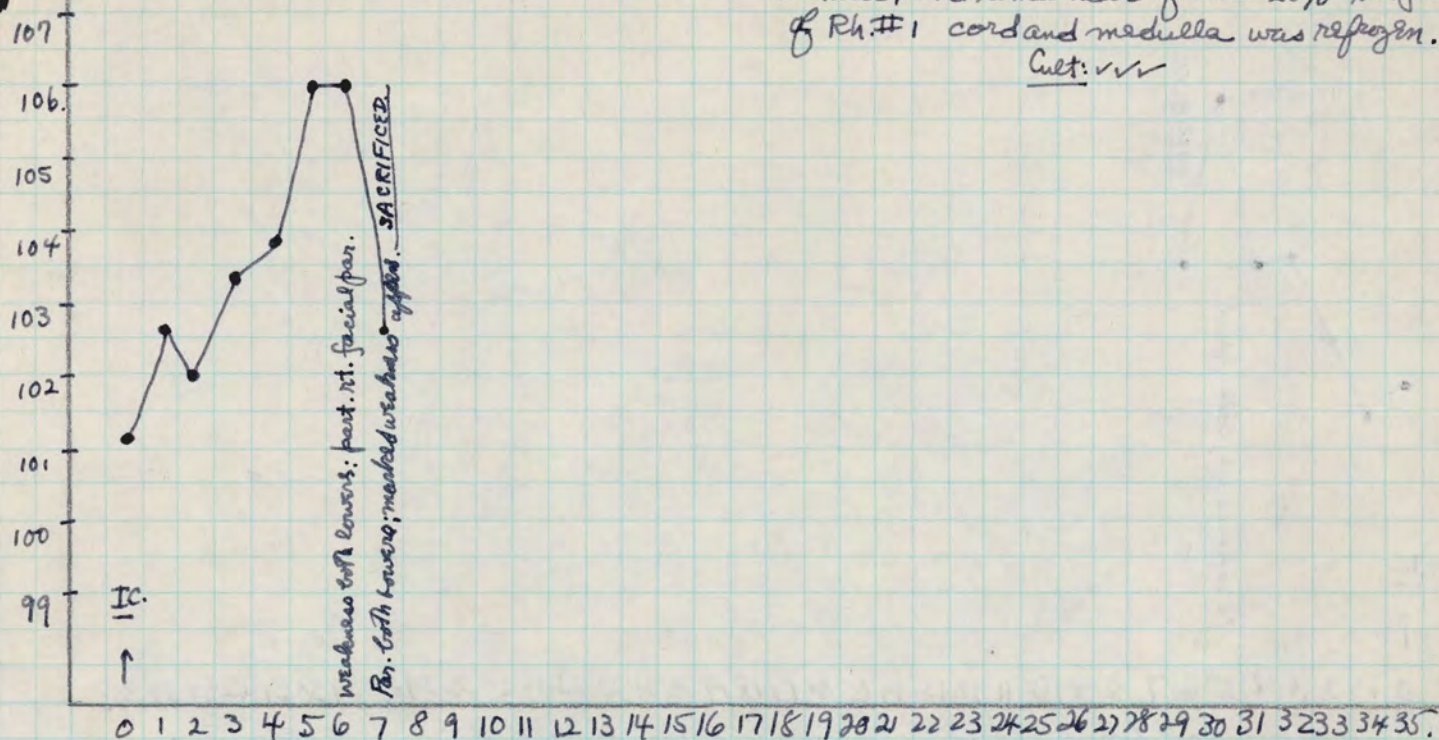
RICE POLIO - Rhesus Passage

GEN II

- Rhesus #17. -

Inoculated IC with 1.0 cc of 20% saline suspension (sand and mortar), lightly centrifuged; cultured; and remainder of this 20% suspension of Rh.#1 cord and medulla was refrozen.

Cult: ✓✓



12/4/47. - Perfectly O.K.; no pilomotor response; no weakness; tremors; cranial nerves OK.

12/7/47. PM. - Very easily exhausted; weakness both lowers; can close both eyes, cannot elevate rt. corner of mouth.

12/8/47. Complete paralysis both lowers; weakness both uppers; monkey lies prone; cannot raise head; moves only left side of face but can close both eyes. - Sacrificed with chloroform - exsanguination. - Autopsy: no evidence of fibrosis.

HISTOPATHOLOGY: Cord levels; medulla; + medulla-pons junction. (2A)

TISSUE FOR VIRUS: Cord + medulla pooled with Rh.#18 (ovuleaf), and made into 20% suspension in saline. Frozen B-1-2, labelled as Rice Polio - Generation II. - Cult: ✓✓ (2 ampoules)

Histology - Polio

DEC 1 1947

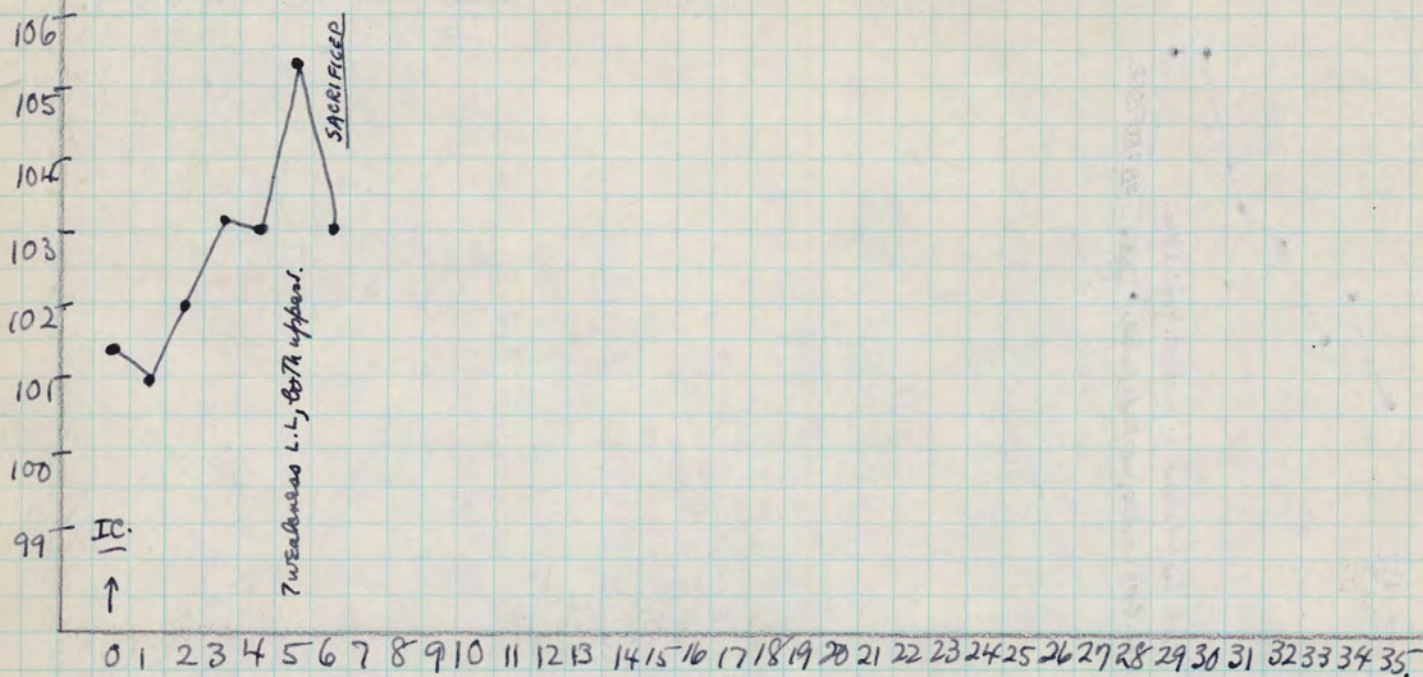
RICE POLIO.

Rhesus Passage-

GINTI

Rhesus #18-

Inoculated IC with 1.0 cc of a 20% saline suspension of cord-medulla of Rh.#1, in whom Rice polio was isolated. (see over)



12/7/47. Complete paralysis all limbs, head drop; cry is weak; cranial nerves seem OK. - Sacrificed by exsanguination. - Autopsy: no TBC.

HISTOPATHOLOGY: cord levels and medulla. (2A)

TISSUE FOR VIRUS: Cord and medulla kept on dry ice

until - 12/8/47 - Rh.#18 pooled with Rh.#17 (overleaf) and made into 20% susp. in saline and frozen (B-1-2)

Histology - Polio

TITRATION OF HUMAN POLIO STRAINS.

5-14-48

RICE STRAIN (GEN. II)

Virus used: Rice strain of polio (Gen. II in monkeys); 20% in saline diluted in saline as below.

Monkeys: Normal rhesus. (NEIP farm N.C. - Tuberculin tested)

Mixtures used: Dilutions as below made up in saline; kept at room temperature (76°F) for one hour; then refrigerator for 15 hours; then in bath until inoculated on 5-15-48.

Inoculum: 0.5 cc IC. per monkey.

10^{-3.0}

<u>DILUTION</u>	<u>MONKEY#</u>	<u>CLINICAL FINDINGS</u>	<u>PATHOLOGY (POW)</u>	<u>RESULT</u>
10 ⁻²	Rh-435 P ₆			
	436 P ₇			3/3
	437 P ₈			
10 ⁻³	438 O: K ₃₁		0	
	439 O: K ₃₁		0	1/3
	440 P ₈		+	
10 ⁻⁴	441 O: K ₃₁		0	
	442 P ₆			1/3
	443 O: K ₃₁		0	
10 ⁻⁵	444 O: K ₃₁		0	
	445 O: K ₃₁		0	0/3
	446 O: K ₃₁		0	

Titration of Rice Strain Polio

Rh # 435

10⁻²

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	Part. par. took uppers; weakness over back + neck. (Found <u>DEAD</u> 90 minutes later!) Autopsy: No gross thc. TISSUE FOR SECTION - One segment from each of lumbar and cervical cord levels (2-A) TISSUE FOR VIRUS - Remainder of cord-medulla pooled with that of Rh 442 to make a 20% susp. in (50cc.) sterile saline. Wt. of pooled cords-medullae = 12.5 gms. ± 40cc. frozen in 5-20cc amps and stored. Culture: ✓✓✓ (B-2-5) <u>11-19-48</u> Tissue for section discarded

Titration of Rice Strain Polio

Rh # 436

10^{-2}

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
5-22-48	7	Part. Par. Rt. Lower; weakness L. Lower; p. motor t.
5-23-48	8	Prostrate - quadriplegia. ^(not complete AS) No voice.
5-24-48	9	Compl. par. both lowers; part. par. both uppers; can move head and neck; aphonia
5-25-48	10	Quadriplegia. Aphonia. Can still move head.
5-26-48	11	No change.
	12	No change.
	13	"
	14	"
	15	"
	16	"
	17	" (Retains some slight movement of left up.)
	18	"
	19	"
6-4-48	20	FOUND DEAD
		<u>AUTOPSY</u> No gross lbc
		<u>TISSUE FOR SECTION</u> Single sections of lumbar and cervical (Z A)
		<u>11-19-48</u> Tissues discarded

Titration of Rice Strain Polio

Rh # 437.

10-2

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
5-21-48	6	? clumsy.
5-22-48	7.	Weakness of all 4 extremities and voice; pilomotor +; no paralysis.
5-23-48	8	Prostrate - comp. par. both lowers and rt. upper. Par. par. left upper. Voice about fairly strong.
5-24-48	9	no change.
5-25-48	10	" " Voice only moderately weak.
5-26-48	11	" " " "
	12	Aphonia; quadriplegia; seems worse.
5-28-48	13	Quadriplegia - moribund.
	14	" "
	15.	Extremely now. - Sacrificed (chloroform - Exsanguination). TISUE FOR PATHOLOGY: Cervical; lumbar cord segments. (Z-A) <u>11-19-48</u> Tissues discarded

Titration of Rice Strain Polio

Rh # 438

10^{-3}

Date	Day	Remarks
MAY 15 1948	0	mild diarrhea
	1	"
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
5-22-48	7	A.M. Pilomotor t. P.M. - Same.
5-23-48	8	Excited. pilomotor response.
5-24-48	9	no change. T=103°.
5-25-48	10	T=101° No change.
5-26-48	11	T=102° " "
	12	T=101° " "
	13	Pilomotor response.
	14	"
	15	seems OK.
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
6-12-48	28	✓
	29	✓
	30	✓
6-15-48	31	✓ Bled <u>Bled for serum.</u> Then sacrificed; Autopsy: no gross TBC Tissue for section: lumbar; Thoracic + cervical cord segments; medulla; midbrain; Pons (2.4.)

Bled prior to
sacrifice

HISTOLOGY: NO POLIO

Titration of Rice Strain Polio

Rh # 439

10⁻³

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
5-19-48	4	Definite pilomotor resp.
5-20-48	5	✓ T=101°
5-21-48	6	✓
5-22-48	7	A.M. Pilomotor t.
5-23-48	8	Pilomotor response.
5-24-48	9	no change. T=102°
5-25-48	10	T=101° Definite pilomotor response.
5-26-48	11	T=101° no change
	12	T=102° Pilomotor t.
	13	? Pilomotor resp. only.
	14	✓
	15	? Pilomotor t.
	16	✓
	17	Pilomotor response
	18	Pilomotor response.
	19	" "
	20	" "
	21	" "
	22	Excited; pilomotor t.
	23	" "
6-8-48	24	pilomotor response
	25	" "
	26	" "
	27	" "
6-12-48	28	" "
	29	Pilomotor t; ? excited.
	30	Pilomotor t.
6-15-48	31	Pilomotor t. <u>Bled for serum.</u> Transsacrificed; Autopsy: ^{no pos} ₁₀₂

TISSUE FOR SECTION: lumbar; Thoracic; cervical cord segments
medulla; midbrain; Thalamus. (Z.A.)

Bled prior
to sacrifice

HISTOLOGY: NO POLIO

Titration of Rice Strain Polio

Rh # 440

10⁻³

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
5-22-48	7	T=103 ³ . disinclined to climb.
5-23-48	8	Prostrate - almost complete paralysis of all 4 ext. Aphonia. Drogh. breathing.
5-24-48	9	no change.
5-25-48	10	Quadriplegia. Aphonia. (Very low)
5-26-48	11	No change. Moribund. <u>SACRIFICED</u> : (chloroform-exsanguination) Autopsy: No thc. TISSUE FOR SECTION - Several sections from each of cervical, thoracic, & lumbar cord levels (2-A)

HISTOLOGY: The levels show extensive loss of neurones
with foci of dense and of scattered glial cells in
ext. horns; moderate PV cuffing.

DIAGNOSIS: POLIO (Acute to Recent)

Titration of Rice Strain Polio

Rh # 441

10⁻⁴

Date Day Remarks

MAY 15 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 ✓

6-12-48

6-15-48

SACRIFICED (chloroform-exsanguination) No gross
TISSUE FOR SECTION Single segments of lumbar, thoracic
and cervical cord, medulla, midbrain & thalamus (Z.A.)

HISTOLOGY: NO POLIO

Titration of Rice Strain Polio

Rh # 442

10⁻⁴

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
5-20-48	5	Excited? pilomotor response.
5-21-48	6.	Quadriplegia; complete rt. facial; alert. <u>SACRIFICED</u> (chloroform-exsanguination) TISSUE FOR SECTION - One segment from each of lumbar and cervical cord (2-A) TISSUE FOR VIRUS - Cord-mesulla (remainder) pooled & that of Rh 435 to make a 20% susp. in saline. (See Rh 435.) <u>11-19-48</u> tissues for section discarded

Titration of Rice Strain Polio

Rh # 443.

10^{-4}

Date	Day	Remarks
MAY 15 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	✓
6-12-48		
6-15-48	31	✓

SACRIFICED (chloroform-exsanguination)
TISSUE FOR SECTION single segments of lumbar, thoracic
 and cervical cord, medulla, midbrain & thalamus (2A)
AUTOPSY: No gross lbc

Titration of Rice Strain Polio

Rh # 444

10⁻⁵

Date Day Remarks

MAY 15 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 ✓

6-12-48

6-15-48

SACRIFICED (chloroform-exsanguination)
TISSUE FOR SECTION single segments of lumbar
thoracic and cervical cord, medulla midbrain
and thalamus (Z A)
AUTOPSY No gross ltr

HISTOLOGY!

NO POLIO

Titration of Rice Strain Polio

Rh # 445

10.5

Date

Day

Remarks

MAY 15 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 ✓

6-12-48

6-15-48

31

✓ SACRIFICED (chloroform-exsanguination)
TISSUE FOR SECTION ~~single~~ ^{two} segments of lumbar, thoracic
and cervical cord, medulla, midbrain & thalamus (ZA)
AUTOPSY no gross lbc

HISTOLOGY: These sections show no pathological change.

DIAGNOSIS: NO POLIO

Titration of Rice Strain Polio

Rh # 446

10⁻⁵

Date

Day

Remarks

MAY 15 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

✓

6-12-48

28

✓

29

✓

30

✓

6-15-48

31

✓ SACRIFICED (chloroform-exsanguination)
TISSUE FOR SECTION Single segments of lumbar
 thoracic and cervical cord, medulla
 midbrain and thalamus (2A)
AUTOPSY No gross abn.

HISTOLOGY: These sections show no pathological change.

DIAGNOSIS: NO POLIO.

NEUTRALIZATION TEST IN MONKEYS

RICE STRAIN POLIO VIRUS VS RICE SERA

6-28-78

Virus used: Generation II of Rice strain polio - same material titrated on 5-14-48, dilutions made up in Abbott's saline.

SERA USED: two sera from Patsy Rice: one monkey serum (MV Immune)

1) ACUTE :- 8/14/47 - 60 day of illness. (Frozen)

2) CONVALESCENT :- 11/11/47 - 92nd .. (Frozen)

3) MV Immune Monkey Serum :- (liquid serum refrigerated) - labelled as MV. Immune Serum - Pool of M 3415, 719, 43A, Ph. 42, 207, 1935 + 1936, 28 - ampouled by Dr. I. Young on 3-2-48 - used for lambic neutral. Test in mice.

INCUBATION OF MIXTURES: serum-virus + serum-saline mixtures to give the final virus conc. listed below - at 72°F for one hour; refrigerator + 15 hrs; Thence ice bath during inoculations on 6-29-48.

MONKEYS: N.F.I.P. conditioned monkeys; each receiving 0.5 cc I.C.

	10^{-1}	10^{-2}	10^{-3}	10^{-4}	
<u>SALINE</u>			648 P ₁₀	651 P ₈	
<u>CONTROL</u>		646 P ₁₁	649 P ₅	652 P ₂₉	10 ^{-4.2}
		+ 647 D ₁₄ ?	650 P ₈	653 O ₃₆	
<u>ACUTE</u>	654 P ₂₅	657 X ₃₅	660 X ₃₅	663 X ₃₅	
<u>SERUM</u>	655 O ₃₆	658 K ₃₅	661 X ₃₅	664 X ₃₅	10 ^{-0.7} ?
5 days after onset	656 O ₃₅	659 X ₃₅	662 K ₃₅	665 X ₃₅	
<u>CONVALESCENT</u>	666 X ₃₅	669 D ₅	674 X ₃₅	677 X ₃₅	
<u>SERUM</u>	670 X ₃₅	672 D ₂₀	675 X ₃₅	678 K ₃₅	10 ^{-0.5} ?
	668 X ₃₅	673 D ₁₀	676 X ₃₅	679 D ₂₈ ?	
<u>MV</u>	680 P ₁₃	683 P ₁₃			
<u>IMMUNE</u>	+ 681 D ₈	684 P ₈			
<u>SERUM</u>	682 P ₉	685 P ₁₃			10 ^{-2.5} +

RICE

HOMOLOGOUS NEUTRALIZATION TEST

Rb 646

Saline control

10⁻²

DATE DAY REMARKS

JUN 29 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓

7-6-48

6. Easily exhausted; disinclined to climb.
7. Complete par. left upper; part par. of other three extremities; tremors
SACRIFICED (chloroform - 4x sanguination) - Autopsy - no gross TB

TISSUE FOR SECTION - single segments of lumbar & cervical cord

TISSUE FOR VIRUS - Cord & medulla of Rb 646 pooled
Pooled weight = 10 gm. | with that of Rb 649 to make a 20%
Saline added = 40 cc. | Sterile Suspension in Saline. ± 32 c.c.
frozen in 3-20 c.c. amps and
Stored. Vials #1, 2, 3

Culture: ✓✓✓

B-7-7

11-23-48 Tissues for section discarded

RICE

Homologous neutralization Test

Saline control 10^{-2}

Rh 647

DATE DAY REMARKS

JUN 29 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓ thin - diarrhea
	12	✓ " "
	13	diarrhea - General weakness; No focal weakness
	14	FOUND DEAD

AUTOPSY: No gross the

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

Tissue segments extremely soft - cervical section fractured throughout - impossible to obtain a section.

HISTOLOGY

The two levels of medulla are sufficiently well preserved to be interpreted; The cord levels are hopelessly distorted. — The medulla shows acute neuronophagia floor of 4th ventricle.

DIAGNOSIS: POLIO (acute)

RICE Homologous Neutralization Test

Rh 648

Saline Control 10^{-3}

DATE DAY REMARKS

JUN 29 1948

0	✓	
1	✓	
2	✓	
3	✓	
4	✓	
5	✓	
6	✓	
7	✓	
8	✓	
7-8-48	9	Body and head tremors. T=104.2
7-9-48	10	Partial Paralysis of all extremities; Weak Voice 7/9 Bled for serum
	11	No change
	12	" "
7-12-48	13	Compl. par. left lower; Part. par. right lower and both uppers
	14	No change
	15	" "
	16	" "
	17	" "
	18	" "
	19	" "
	20	No change
	21	" "
7-21-48	22	Comp. par. both lowers & right upper; part par-left upper
	23	No change
	24	" "
	25	" "
	26	NO change.
7-26-48	27	Compl. par. left lower; Part par. right lower & both uppers.
	28	No change
	29	" "
7-29-48	30	" " Bled for serum
	31	" "
	32	" "
	33	" "
8-2-48	34	Compl. par. left lower; Part. par. other 3 extremities
	35	No change
8-20-48	52	No change
9-27-48	71	Compl. par. both lowers; Part par. both uppers; Monkey can not sit up but eats and moves head well
9-30-48		Bled for serum

10-2-48 - DEAD: Autopsy: no gross TBC or visceral changes.

TISSUES FOR "OLD POLIO" CHANGES: Lumbar & cervical segments. (very pulsatious) - (Z-D. - 10-6-48 - Tissues too soft to turn. - Discarded.

Rh 649

RICE

Homologous neutralization Test

Saline control 10^{-3}

DATE DAY REMARKS

JUN 29 1948

0 ✓

1 ✓

2 ✓

3 ✓

4 ✓

7-4-48

5

T=104 $\pm$ Part. Paralysis of all 4 extremities. Weak back & neck
 Sacrificed (chloroform - asanguination) - Autopsy: no gross TBs.

TISSUE FOR SECTION: segments of lumbar & cervical cord.

TISSUE FOR VIRUS: cord - medulla frozen in isotheroid tube. (d-a)

Contact Culture BAP:- ✓✓

7-6-48 - Cord & medulla thawed &
 pooled with Rh 646 to make a 20%
 pleile suspension (see Rh 646) in saline

HISTOLOGY: Acute early neuronophagia most marked in
 cervical than in lumbar cord.; ~~moderate~~ moderate
 PV cuffing.

DIAGNOSIS: POLIO ("Acute")

Rh 650

RICE Homologous Neutralization Test

Saline control 10^{-3}

JUN 29 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓ diarrhea
	6.	✓
7-6-48	7	Pilomotor response; Head tremors
	8	Compl. par. rt. lower. Partial Par. left lower and both uppers. Head tremors
	9.	Compl. par both lowers and left upper; Part par. right upper; Weak voice
7-9-48	10	Quadriplegia. 7-9-48 Bled for serum
	11	"
	12	"
	13	"
	14	"
	15	"
	16	"
7-16-48	17	Anadriplegia - right facial
	18	"
	19	No change
7-19-48	20	FOUND DEAD
		AUTOPSY: No gross ltr
		TISSUE FOR SECTION: single segments of lumbar & cervical cord; & medulla (Z.A.)
		Tissue for section very soft.
		11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Rh 651 saline control 10^{-4}

DATE DAY REMARKS

JUN 29 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓

7-7-48 8 Partial par. both uppers and lowers. Head Tumors

9 Compl. par. left lower. Part par. both uppers and left lower

7-9-48 10 Compl. par. both lowers; Part par. both uppers.

11 No change

12 " "

13 " "

14 " "

15 " "

16 " "

17 Compl. Par. both lowers, Part Par. both uppers

18 No change

19 " "

20 " "

21 " "

22 " "

23 " "

7-23-48 24 Comp par both lowers and right upper; part par left upper

25 No change

26 No change

7-26-48 27 Compl. Par both lowers, Part. Par both uppers

28 No change

29 " "

7-29-48 30 " " Bled for serum

31 " "

32 " "

33 " "

8-2-48 34 Compl. Par. both lowers, Part. Par. both uppers, weak voice

35 No change

8-20-48 52 " "

8-26-48 58 FOUND DEAD

AUTOPSY: no gross tbc

TISSUE FOR SECTION: several segments of lumbar & cervical cord (z.a.)

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 652 Saline control 10^{-9}

DATE DAY REMARKS

JUN 29 1948

0	✓	
1		mild diarrhea
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	✓	
7-28-48	29	At Def. weakness of both uppers. Disinclined to climb $T=104.3$ P.M. Part. Par. of both uppers. Tremors. Blood for serum.
	30	Compl. Par. of left upper; Part Par. other 3 extremities
7-31-48	31	Quadriplegia
	32	Quadriplegia; aphonia
	33	No change
8-2-48	34	Quadriplegia; aphonia
	35	No change
8-20-48	52	Quadriplegia; Weak voice
8-26-48	58	FOUND DEAD

AUTOPSY: No gross lbr

TISSUE FOR SECTION Tissue very soft so only, one segment of cervical cord and several sections of medulla. (Z.A.)

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 653

Saline Control 10^{-4}

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

8-4-48

36

SACRIFICED - (chloroform - exsanguination)

AUTOPSY - No gross the

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

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Rh 654

Acute Serum

10⁻¹

DATE DAY REMARKS

JUN 29 1948

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

7-24-48 25 Part Par. all 4 extremities
26 Partial paralysis of all 4 extremities; cranial nerves O.K.

7-26-48 27 No change
28 "

7-28-48 29 Compl. Par. left upper; Part. Par. other 3 extremities

7-29-48 30 No change Bled for serum

7-30-48 31 Compl. Par. of left upper. Part Par. other 3 extremities

32 No change

8-2-48 33 Compl. Par. of left upper. Part Par. other 3 extremities

8-2-48 34 Compl. Par. right lower; ~~Part~~ and left upper; Part Par. left lower & right upper

35 No change

8-20-48 52 Part. Par. all 4 extremities

9-27-48 91 No Change. Monkey sits up and can climb

9-30-48 Bled for serum

10-7-48 - Homologous Challenge IC (see record).

RICE Homologous Neutralization Test

Rh 655

Aceto Serum 10⁻¹

DATE DAY REMARKS

JUN 29 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 *thin*
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 ✓

8-2-48

8-4-48

36 SACRIFICED - (Chloroform - Exsanguination)
AUTOPSY - No gross the
TISSUE FOR SECTION - ~~5~~ ⁽²⁾ segments of lumbar, ⁽²⁾ thoracic
and (1) cervical cord; (1) medulla, midbrain and
thalamus → (2A) (Midbr. & thalamus discarded 9/12/48)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS NO POLIO

RICE) Homologous Neutralization Test

Rh 656

Ceute Serum 10-11

DATE DAY REMARKS
JUN 29 1948 0 ✓

1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓ (thin)

7 ✓
8 ✓
9 ✓
10 ✓ (thin)
11 ✓ "

12 ✓
13 ✓
14 ✓

15 ✓ bone sinus - left ankle
16 ✓ " " " "
17 ✓ bone sinus - 100,000 units of penicillin I.P.
18 ✓ " " " " " "
19 ✓ (bone sinus seems healed)

20 ✓
21 ✓
22 ✓
23 ✓
24 ✓
25 ✓
26 ✓
27 ✓
28 ✓
29 ✓
30 ✓

31 ✓ thin - diarrhea
32 ✓ thin
33 ✓ thin - mild diarrhea

8-2-48 34 ✓ thin - no diarrhea

8-3-48 35 ✓ thin

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION (1) single segments of lumbar thoracic and
cervical cord; medulla, (2) thalamus and midbrain (Z.A.)
discarded 9/17/48.

HISTOLOGY: Above segments reveal no histology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test
Rh 657 Acute Serum 10^{-2}

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

8-3-48

35

✓ Observation Terminated. Monkey tag number changed to
657X. Monkey set aside to be used again.
8-30-48 Rh 657X used for Walter Neutralization Test.

RICE Homologous Neutralization Test

Rh 658

Acute Serum 10^{-2}

JUN 29 1948

DATE DAY REMARKS

	0	Diarrhea	
	1	mild diarrhea	
	2	" "	
	3	" "	
	4	✓	
	5	mild diarrhea	
	6	same	
	7	✓	
	8	mild diarrhea	
	9	" "	
	10	✓	
	11	✓	
	12	✓	
	13	✓	
	14	thin - General Weakness; severe diarrhea	91
	15	same	
	16	"	
	17	General Weakness; diarrhea	
	18	same	
	19	"	
	20	"	
7-20-48	21	General weakness; diarrhea; thin; awkward	
	22	no change	
	23	" "	
	24	" "	
	25	" "	
	26	same.	
7-26-48	27	thin; severe diarrhea	
	28	same	
	29	very thin - diarrhea	
	30	same	
	31	same condition	
	32	thin diarrhea	
	33	No change	
8-2-48	34	thin - diarrhea	
8-3-48	35	thin - diarrhea	
		SACRIFICED: (chloroform-exsanguination)	
		AUTOPSY: No gross the	
		TISSUE FOR TRANS SECTION: Single segments of lumbar and cervical & thoracic cord; medulla; thalamus and midbrain (Z.A.)	
		discarded 9/17/48.	
		11-17-48 Tissues discarded	

RICE Homologous Neutralization Test

Rh 659

Acute Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

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

8-2-48

34

✓

8-3-48

35

✓

Observation Terminated Monkey tag number changed to 659-X. Monkey to be used again.

9-30-48 Rh 659X used for Walter Neutralization Test.

RICE Homologous Neutralization Test

Rh 660

Acute Serum 10^{-3}

JUN 29 1948

DATE DAY REMARKS

0	✓	
1	✓	
2	✓	
3	✓	
4	✓	
5	✓	
6	✓	
7	✓	
8	✓	
9	✓	
10	✓	
11	✓	
12	✓	
13	✓	
14	✓	
15	✓	
16	✓	
17	✓	✓ 11
18	✓	✓ 81
19	✓	✓ 31
20	✓	
21	✓	
22	✓	
23	✓	
24	✓	
25	✓	
26	✓	
27	✓	
28	✓	
29	✓	
30	✓	
31	✓	
32	✓	
33	✓	
8-2-48	34	✓
8-3-48	35	✓ <u>Observation Terminated</u> Monkey Tag number changed to <u>660-X</u> Monkey to be used again.
		<u>8-30-48</u> Rh 660X used for Walters Neutralization Test

RICE Homologous Neutralization Test

Rh 661

Acute Serum 10^{-3}

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 661X.
 Monkey to be used again
8-30-48 Rh 661X used for Walter's Neutralization Test

RICE Homologous Neutralization Test
Rh 662 Acute Serum 10^{-3}

JUN 29 1948

DATE DAY REMARKS

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓
7	✓
8	✓
9	✓
10	✓
11	✓
12	✓
13	✓
14	✓
15	✓
16	✓
17	✓
18	diarrhea
19	✓ "
20	✓
21	✓
22	✓
23	✓
24	✓
25	✓
26	✓
27	✓
28	✓
29	✓
30	✓
31	✓
32	✓ diarrhea
33	✓
8-2-48 34	✓
8-3-48 35	✓

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross bc.

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

discarded 9/17/48.

11-19-48 Tissues discarded

RICE Homologous Neutralization Test
Rh 663 Acute Serum 10^{-4}

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

8-3-48

Observation Terminated Monkey tag *changed to 663X
Monkey to be used again.

8-4-48 Rh 663X given to Drs. Sabin and Hambro for
Plasmaacid and / S.N. 13058-17 Expt.

RICE Homologous Neutralization Test

Rh 664

Acute Serum 110-4

JUN 29 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	34	✓
8-3-48	35	✓

Observation Terminated. Monkeytag # changed to 664-X
Monkey to be used again.

8-4-48 Rh 664X given to Drs. Sabin & Hambro for Plasmarid
and S.N. 13058-17 Expt.

RICE Homologous Neutralization Test

Rh 665 Acute Serum $1/10^{-4}$

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 665-X
Monkey to be used again

8-4-48 Rh 665X given to Drs. Sabin & Hambro for
Plasmaid and S.N. 13058-17 Expt.

RICE Homologous Neutralization Test

Rh 666 Convalescent Serum 10⁻¹

DATE DAY REMARKS

JUN 29 1948

- | | |
|----|---------------|
| 0 | ✓ |
| 1 | ✓ <i>thin</i> |
| 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 | ✓ |

8-2-48

8-3-48

Observation Terminated Monkey tag # changed to 666 X and set aside to be used again.

8-4-48 Rh 666X given to Drs. Sabin and Hambro for Plasmacid and SM 13058-17 Expt. (Inoc. 8/7/48 by Dr. Sabin - using Hoferkamp virus. - Died 9/28/48 - No autopsy.

RICE Homologous Neutralization Test

Rh 670

Convalescent Serum 10⁻¹

JUN 29 1948

DATE DAY REMARKS

0 Diarrhea

1 O.K.

2 ✓

3 ✓

4 ✓

5 ✓

6 ✓

7 ✓

8 ✓

9 ✓

10 ✓

11 ✓

12 ✓

13 ✓

14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓

20 ✓

21 ✓

22 ✓

23 ✓

24 ✓ ~~thin~~

25 ✓

26 ✓

27 ✓

28 ✓

29 ✓

30 ✓

31 ✓

32 ✓

33 ✓

8-2-48

34 ✓

8-3-48

35 ✓

Observation Terminated Monkey tag # changed to 670 X
Monkey to be used again.

9-7-48. - Monkey has been having diarrhea, and very
thin. Dead today. Discarded. -

RICE Homologous Neutralization Test

Rh 668

Convalescent Serum 10^{-1}

JUN 29 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	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
	31	✓
	32	✓
	33	✓

8-2-48 34 ✓

8-3-48 35 ✓ Observation Terminated Monkey tag # changed to 668 X
Monkey to be used again.

8-25-48

Moribund

SACRIFICED (chloroform - exsanguination) - NO gross TBC.

Discarded

RICE Homologous Neutralization Test

Rh 669

Convalescent Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

0 Diarrhea

1 thin - diarrhea

2 thin - diarrhea

3 General Weakness - thin - diarrhea

4 Same

7-4-48

5 FOUND DEAD

AUTOPSY: Extensive coccidiosis - infestation; lungs OK.

TISSUE FOR SECTION: - Thalamus; midbrain; medulla;
cervical; Thoracic; lumbar cord levels. (2A).

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 672

Convalescent Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

0	✓
1	✓
2	✓
3	✓
4	✓
5	✓
6	✓
7	✓
8	✓
9	✓ mild diarrhea
10	✓
11	✓
12	✓
13	✓
14	✓ mild diarrhea
15	✓ " "
16	✓ thin "
17	✓ " "
18	General Weakness; very apathetic; severe diarrhea; thin
19	Same condition
20	FOOD DEAD..

AUTOPSY: No gross lcs.

TISSUE FOR SECTION: Long segments of lumbar thoracic & cervical cord.
medulla, thalamus & midbrain (Z.A.)
Tissue for section very soft.

HISTOLOGY: Spinal cord segments too distorted to interpret properly; medulla; midbrain; and inf. Thalamus show no pathology. -

DIAGNOSIS: NO POLIO

RICE Homologous neutralization Test

Rh 673

Convalescent Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓
8 ✓

9 ✓ thin Men. Weakness

7-9-48

10

FOUND DEAD

AUTOPSY: No gross lcs

TISSUE FOR SECTION Single segments of lumbar, thoracic and cervical cord; medulla, midbrain & thalamus.

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 674

Convalescent Serum 10^{-3}

DATE DAY REMARKS

JUN 29 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

8

✓

9

✓

10

✓

11

✓

12

✓

13

✓

14

✓ mild diarrhea

15

✓

16

✓

17

✓

18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

8-2-48

34

✓

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 674 X
Monkey to be used again.
8-30-48 Rh 674 X used for Walter Neutralization Test.

RICE Homologous Neutralization Test

Rh 675

Convalescent Serum 10^{-3}

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

34

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 675 X
Monkey to be used again.
8-30-48 Rh 675X used for Walter Neutralization Test

RICE Homologous Neutralization Test

Rh 676

Convalescent Serum 10^{-3}

DATE DAY REMARKS

JUN 29 1948

- 0 ✓
- 1 ✓
- 2 ✓
- 3 ✓
- 4 ✓
- 5 ✓
- 6 ✓
- 7 ✓
- 8 ✓
- 9 ✓
- 10 ✓
- 11 ✓
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- 13 ✓
- 14 ✓
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- 22 ✓
- 23 ✓
- 24 ✓
- 25 ✓
- 26 ✓
- 27 ✓
- 28 ✓
- 29 ✓
- 30 ✓
- 31 ✓
- 32 ✓
- 33 ✓
- 34 ✓

8-2-48

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 676 X
Monkey to be used again

9-7-48 Given to Drs. Sabin and Hambro for plasmanid control

RICE Homologous Neutralization Test

Rh 677

Convalescent Serum 10⁻⁴

DATE DAY REMARKS

JUN 29 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 ✓

8-2-48

34

8-3-48

35

✓ Observation Terminated Monkey tag # changed to 677X
Monkey to be used again
8/31/48 Given to Drs. Salen & Tamboon for Rhesusoid and S.N. Expt.

RICE Homologous Neutralization Test
Rh 678 Convalescent Serum 10^{-4}

DATE DAY REMARKS

JUN 29 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

thin - general weakness - tires easily

30

same

31

thin mild diarrhea

32

thin

33

thin - mild diarrhea

8-2-48

34

thin

8-3-48

35

thin

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross ~~tho~~

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

RICE Homologous Neutralization Test

Rh 679 Convalescent Serum 10⁻⁴

DATE DAY REMARKS

JUN 29 1948

0 Diarrhea

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 ✓

7-26-48 27 ✓ Thin diarrhea, passive; no focal weakness.

7-27-48 28 FOUND DEAD

AUTOPSY: No gross lbr
TISSUE FOR SECTION Entire Cns in Z.A. (Thalamus midbrain)
(discarded 9/17/48)

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 680

MV Immune Serum 10^{-1}

DATE DAY REMARKS

JUN 29 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
	9	✓	diarrhea
	10	✓	
7-10-48	11		Distinct Head tremors; excited; easily exhausted; Weakness of all 4 extre.
7-11-48	12		T-1042 Head and body tremors; Weakness of all extremities; Disinclined to climb. Weak voice; excited
7-12-48	13		Compl. Par. both lowers; Partial Par. both uppers; Left facial.
	14		No change
	15		" "
	16		" "
	17		Compl. par. lowers; Part par. both uppers; left facial
	18		No change
	19		" "
	20		" "
	21		" "
	22		" "
	23		" "
	24		" "
	25		" "
	26		NO " change
7-26-48	27		Compl. par. both lowers; Part par. both uppers; left facial.
	28		No change
	29		" "
7-29-48	30		" " <u>Bled for serum</u>
	31		" "
	32		" "
	33		" "
8-2-48	34		Compl. Par. both lowers; Part. Par. both uppers; part left facial
	35		No change
8-20-48	32		Compl. Par. both lowers; W. both uppers.
9-24-48			<u>FOUND DEAD</u>
			<u>AUTOPSY:</u> No gross the
			<u>TISSUE FOR SECTION:</u> Several segments of lumbar thoracic & cervical cord.
			2 sections of medulla also single sections of thalamus and midbrain (2A)
			<u>11-19-48</u> tissues discarded

RICE Homologous Neutralization Test

Rh 681

MY Immune Serum 10^{-1}

DATE DAY REMARKS

JUN 29 1948

0 ✓
1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓
7 ✓

7-7-48.

8 ✓

FOUND DEAD

AUTOPSY: Both lungs deeply congested? pneumonia, bilaterally.

TISSUE FOR SECTION: - lung.

Thalamus; midbrain; pons; medulla; numerous sections of
cervical; Thoracic + lumbar cord. (Z.A.)
(9 Cervical; 5 lumbar; 5 Thoracic; 3 medulla).

HISTOLOGY: Above levels show acute neurophagia early and
init PV. infiltration.

DIAGNOSIS: POLIO (Acute)

RICE Homologous Neutralization Test

Rh 682

MV Immune Serum [10-9]

DATE DAY REMARKS

JUN 29 1948

29 1948	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
	8	✓	
7-8-48	9	Part Paralysis of all 4 extremities	
7-9-48	10	Compl. par. of left lower, Part. par. right lower and uppers. <u>Bled for serum</u>	
	11	No change but also a Co	
	12	" "	
7-12-48	13	Compl. Par. both lowers, Part. par. both uppers.	
	14	No change	
	15	" "	
	16	" "	
	17	" "	
	18	" "	
7-18-48	19	" " <u>Complete white with drop</u>	
	20	No change	
	21	" "	
	22	" "	
	23	" "	
	24	" "	
	25	" "	
	26	NO Change.	
7-26-48	27	Compl. par. both lowers; Part. par. both uppers.	
	28	No change	
	29	" "	
7-29-48	30	" " <u>Bled for serum</u>	
	31	" "	
	32	" "	
	33	" "	
8-2-48	34	Compl. par. both lowers, Part. Par. both uppers.	
	35	No change	
8-20-48	52	No change	
9-27-48	91	Compl. par. left lower and almost Compl. Par. right lower, Part. Par. both uppers; Monkey is very thin but can climb	
9-30-48		<u>Bled for serum</u>	
		10-7-48 - Homologous Challenge IC (see record).	

RICE Homologous Neutralization Test

Rh 683

MV Immune Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

0 ✓

1 ✓

2 ✓

3 ✓

4 ✓

5 ✓

6 ✓

7 ✓

8 ✓

9 ✓

10 ✓

11 ✓

12 ✓ Disinclined to climb.

7-12-48

13 Quadriplegia; Weak voice; Right facial. 7-12 Bled for serum

14 No change

15 " "

16 " "

17 Quadriplegia; aphonia; Compl. bilat facial

18 No change

19 " "

20 " "

21 " "

22

FOUND DEAD

AUTOPSY - no gross TBC

TISSUE FOR SECTION - Two segments of lumbar and cervical cord; medulla. (ZA)

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 684

MV Immune Serum 10^{-2}

DATE DAY REMARKS

JUN 29 1948

	0	✓	
	1	✓	
	2	✓	
	3	✓	
	4	✓	
	5	✓	
	6	✓	
	7	✓	
7-7-48	8	Partial Paralysis of all extremities, Weak voice	
	9	No change	
7-9-48	10	Compl. par. both lowers, Part. Par. both uppers. aphonia	
	11	No change	
	12	" "	
	13	" "	
	14	" "	
	15	" "	
	16	" "	
	17	Compl. Par both lowers & left upper. Part Par. right upper. some sinus	
	18	No change, 100,000 units of penicillin	
	19	" "	
	20	" "	
	21	" "	
	22	" "	
	23	" "	
	24	" "	
	25	" "	
	26	NO Change.	
6-26-48	27	Compl. par. both lowers, Part par. both uppers.	
	28	No change	
	29	" "	
7-29-48	30	" " <u>Bled for serum</u>	
	31	" "	
	32	" "	
	33	" "	
8-2-48	34	Compl. Par. both lowers & left upper, Part par. right upper.	
	35	No change	
8-20-48	52	Compl. Par. both lowers, Part. Par. both uppers.	
8-26-48	58	FOUND DEAD	

Autopsy: No gross lcs; spinal cord soft.

TISSUE FOR SECTION Several segments of lumbar & cervical cord (2.A.)
(after trimmed, the anterior horns seemed "empty" - i.e. almost vacuolated grossly.)

11-19-48 Tissues discarded

RICE Homologous Neutralization Test

Rh 685 My Immune Serum 10⁻²

DATE DAY REMARKS

JUN 29 1948

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

7-12-48 13 Part. Par. all 4 extremities 7-12- Bled for serum

14 No change

15 " "

16 " "

17 Compl. Par. both lowers; Part par. both uppers.

18 No change

19 " "

20 " "

21 " "

22 " "

23 " "

7-23-48 24 Comp. par both lowers and right upper; part par left upper

25 No change

26 NO change.

8-7-48 27 Compl. par both lowers; Part par both uppers.

28 No change

29 " "

7-29-48 30 " " Bled for serum

31 " "

32 " "

33 " "

34 " "

35 " "

8-20-48 52 Compl. Par. both lowers. Part. Par both uppers.

9-27-48 91 No Change; Monkey can not sit up; but moves body and head well

9-30-48 Bled for serum.

10-7-48 - Homologous Challenge IC (see record).

RICE - HOMOLOGOUS NEUTRALIZATION TEST SERUM-DILUTION METHOD

9-20-48. VIRUS USED: Generation II of Rice strain polio in Rhesus - same pool as used for initial titration (5-14-48) and for the neutralization test performed on 6-28-48. - The cumulative titer of virus from these two tests was $10^{3.7}$ - so that the fixed dose of virus is 50 PD₅₀ selected for this test below was calculated to be achieved by using final virus conc. of 1:100 vs. The varying dilutions of serum.

SERA USED: Two sera from Patsy Rice - ACUTE: - 8/14/47 (6th day of illness)
CONVALESCENT: - 11/11/47. (92nd day of illness)

INCUBATION: Serum-virus and control dilutions indicated below, at room temp. (72°F) for one hour, then refrigerator ± 15 hours overnight, then into ice-bath during inoculations on 9/21/48.

MONKEYS: Normal conditioned Rhesus from Chad's Farm.

INOCULUM: 0.5 cc per monkey i.c.r.

FINAL CONCENTRATION OF VIRUS = 1:100

SERUM:	UNDILUTED	1:4	1:16	1:64
<u>ACUTE</u> 8/14/47. 5 th day after onset	Rh. 8840, X ₃₅ 8850, X ₃₅ 8860, X ₄₁ ○ 8870, X ₃₅	Rh. 888 P ₁₀ + 8890, K ₃₁ "old" "NP" ○ 8900, K ₃₁ ○ 8910, K ₃₁	Rh. 8920, K ₃₁ ○ 893 P ₁₀ 894 P ₈ 8950, K ₃₁ ○	Rh. 896 P ₁₂ ○ 897-NOK ₃₂ ○ 8980, K ₃₅ 899 P ₉
<u>CONVALESCENT</u> 11/11/47. 91 st day after onset	Rh. 900 D ₂₁ ○ 9010, X ₃₅ 9020, K ₃₂ 9030, X ₃₅	Rh. 9040, K ₃₁ ○ 905 P ₁₆ 9060, K ₃₄ ○ 9070, K ₃₄ ○	Rh. 9080, K ₃₄ ○ 9090, K ₃₄ ○ 9100, K ₃₄ ○ 9110, K ₃₄ ○	Rh. 912 ○, K ₃₄ 913 ○, K ₃₄ 914 ○, K ₃₄ 915 ○, K ₃₄

	1:100	10 ⁻³	10 ⁻⁴	10 ⁻⁵
<u>SALINE</u>	Rh. 823 P ₉ 871 P ₁₀ 872 P ₉ 874 P ₆	Rh. 875 P ₉ 876 P ₁₁ 877 P ₁₀	Rh. 878 D ₆ ○ 8790, K ₃₁ ○ 8800, K ₃₁	Rh. 8810, K ₃₁ 8820, K ₃₁ 8830, K ₃₁
<u>CONTROL</u>				

RICE

Homologous Neutralization Test

Rh. 823-

Serum Dilution Method

Saline 1:100 virus

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
9-30-48	8	✓
	9	Partial Paralysis of all 4 extremities. - Sacrificed (chloroform Exsanguination) - - Cord medulla pooled with that of Rh. 872 (g.v.), combined wt = 11.4 Gms; made up in micro-Waring blender to 58 cc (i.e. a 20% susp); centrifuged and frozen in ($\pm 35^\circ$) three 20 $^\circ$ and one 10 $^\circ$ ampoule. Vials #1, 2, 3 and 4 respectively stored in (8-7-6) <u>Cult.</u> ✓✓

(No gross TBs)

9-30-48

9

Partial Paralysis of all 4 extremities. - Sacrificed (chloroform Exsanguination) - - Cord medulla pooled with that of Rh. 872 (g.v.), combined wt = 11.4 Gms; made up in micro-Waring blender to 58 cc (i.e. a 20% susp); centrifuged and frozen in ($\pm 35^\circ$) three 20 $^\circ$ and one 10 $^\circ$ ampoule. Vials #1, 2, 3 and 4 respectively stored in (8-7-6) Cult. ✓✓

RICE Homologous Neutralization Test

Rh. 871

Serum Dilution Method

Salen's 1:100 virus.

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
9-30-48	8	✓
	9	Weakness of both lower. Disinclined to climb
	10.	Part. par. all 4 extremities.
	11.	Quadriplegia; aphonia.
	12.	Same.
	T3,	<u>DEAD</u> - discarded.

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 872Saline 1:100 Virus.

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
9-30-48	9	Complete Paralysis of right lower. Partial Paralysis of left lower - Sacrificed (chloroform - exsanguination) - cord - medulla pooled with that of Rh. 823 for virus. (see Rh. 823).
	10	

Rh. 874-Saline 1:100 Virus -

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
9-27-48	6	T=104° Complete Paralysis of right lower and left upper; Partial Paralysis of left lower and right upper; 10 ⁰⁰ a.m. Complete Aphonia. Weak neck and back. 2 ³⁰ p.m. DEAD. - <u>Autopsy</u> : no gross TBC.

DISSES: Cord Levels. (Z.A.).11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 875Saline - 10^{-3} virus.

Date	Day	Remarks
Sept. 21, 1948	0	✓ (left lower eyelid has a recent, small cut; there is mild diarrhea).
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
9-30-48	8	✓
	9	Partial Paralysis of all extremities
	10.	Compe. par. both lowers; part. par. both uppers; tremors; weak back & neck.
	11.	Quadriplegia (feeble movement left hand).
	12.	Same.
	13.	Same.
	14.	No Change
	15.	Mourbund.
		<u>Sacrificed</u> - Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 876-Saline 10^{-3} virus-

Date	Day	Remarks
Sept. 21, 1948	0	✓ (very mild diarrhea).
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓ thin - mild diarrhea
	10	✓
	11	Partial par. all 4 exts.
	12	Quadriplegia; aphonia.
	13	DEAD - dis corded.

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 877.Saline 10^{-3} virus.

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓ mild diarrhea
	9	✓ " "
	10.	Partial paralysis all 4 extremities.
	11.	Tetraplegia; weak virus.
	12.	" " "
	13.	DEAD - discarded.

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 878-Saline 10^{-4} virus-

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
<u>9-27-48.</u>	5	✓
	6	<u>DEAD:</u> Autopsy: no gross Tbc. - <u>CNS</u> is very soft. Rt. lower lobe consolidated. } <u>Tissues:</u> - 4 Lumbar, 2 Thoracic, 4 Cervical; 2 Medulla; midbrain; Thalamus. (Z-A.).

HISTOLOGY: No gross exudate was discovered at autopsy,
There is microscopic evidence of suppurative
meningitis - No evidence of polio

Rh. 879.Saline 10^{-4} virus.

Date Sept. 21, 1948

Day

Remarks

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

8

✓

9

✓

10

✓

11

✓

12

✓

13

✓

14

✓

15

✓

16

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17

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18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

26

✓

27

✓

28

✓

29

✓

30

✓

10-22-48

31

SACRIFICED (chloroform-exsanguination)Autopsy: No gross lcs.TISSUE FOR SECTION 2 medulla, 4 cervical, 2 thoracic, 7 lumbar cord (2.A)HISTOLOGY: Above segments reveal no pathology.DIAGNOSIS: NO POLIO

Serum Dilution Method

Rh. 880Saline 10^{-4} virus.

Date Sept. 21, 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 ✓

10-22-48

31

SACRIFICED (chloroform-exsanguination)AUTOPSY: No gross lbcTISSUE FOR SECTION 2 medulla, 2 thoracic, 4 cervical (Z.A.)
and lumbar cord.HISTOLOGY: Above segments free of pathology.DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 881.Saline 10^{-5} virus.

Date Sept. 21, 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 ✓

10-26-48

35

✓ small - Alum

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross lcs

TISSUE FOR SECTION

medulla and

lumbar and thoracic

cervical cord segments (2. A)

11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 882-Saline 10⁻⁵ virus-

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	Pilomotor response
	9	" " excited
	10	" " "
	11	" " "
	12	Same. - no weakness.
	13	seems OK today.
	14	✓
	15	✓
	16	✓
	17	✓
	18	✓
	19	✓
	20	✓
	21	✓
	22	✓
	23	✓
	24	✓
	25	✓
	26	✓
	27	✓
	28	✓
	29	✓
	30	✓
10-22-48	31	SACRIFICED (chloroform-exsanguination) AUTOPSY: No gross the TISSUE FOR SECTION medulla, cervical, thoracic lumber (Z.A.) 11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 883.Saline 10^{-5} virus.

Date Sept. 21, 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 ✓

10-26-48

35

SACRIFICED (chloroform-exsanguination)AUTOPSY:TISSUE FOR SECTIONNo gross the
lumbar and
medulla and thoracic

cervical cord segments (Z.A.)

11-17-48

Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 884-Acute Serum - undiluted.Date
Sept. 21, 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 ✓

10-26-48

35

Observation Terminated: Monkey tag number
changed to 884X so that he may be
used again

11-8-48 Used as control monkey to receive 100 PD₅₀ of Hoferkamp
virus - The control for Rh. 699 (Hopkins convalescents); Rh. 631 and
Rh. 1931 (Risser convalescents); and Rh. 654, 682, 685 (Rice
convalescents).

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 885-Acute Serum - undiluted.

Date	Day	Remarks
Sept. 21, 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	✓	
10-26-48	35	Observation Terminated Monkey tag number changed to <u>885X</u> ; so that he may be used again
		<u>11-12-48</u> <u>Rh 885X</u> used for Nervous Tissue Antibodies Experiment

Rh. 886-Acute Serum - undiluted -

Sept. 21, 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 ✓
34 ✓

10-26-48

35

Observation Terminated Monkey tag number changed
to 886X; so that he may be used again

11-1-48

41

DEAD:- Autopsy: All viscera grossly normal.

TISSUES FOR SECTION: 3 medulla; 5 cervical; 2 Thoracic; 4 lumbar (2A).

HISTOLOGY: Above segments show no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 887-Acute Serum - unclotted.

Sept. 21, 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	✓
	34	✓
10-26-48	35	Observation Terminated Monkey Tag number changed to 887X so that he may be used again.

11-12-48 Ph 887X used for Thymus tissue Antibodies Experiment

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 888-Acute Serum 1:4

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	Part. par. both uppers; weakness both lowers; complete left facial paralysis.
	11	Compl. par. both uppers; part. par - both lowers; weak neck, voice, back. Compl. left facial paralysis.
	12	NO change.
	13	DEAD - discarded.

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 889-Aut & Serum 1:4

Date	Day	Remarks
Sept. 21, 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	✓✓

10-22-48

31 SACRIFICED (oblongiform-exsanguination)AUTOPSY: no gross lbrTISSUE FOR SECTION 2 midulla, cervical & thoracic & lumbar cord (Z.A.)

HISTOLOGY: Spinal Cord shows neuronal outfall, PV cuffing and root degeneration - most marked in the lumbar region. - Medulla shows PV cuffing chiefly in the reticular formation.

DIAGNOSIS: POLO ("old-non-paralytic")

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 890-Acute Serum 1:4

Date	Day	Remarks
Sept. 21, 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	✓
10-22-48	31	SACRIFICED (chloroform-exsanguination)

AUTOPSY:

No gross the
TISSUE FOR SECTION 2 medulla 3 cervical 2 thoracic and
4 lumbar cord (Z.A.)

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Rh. 891-

Serum Dilution Method

Acute Serum 1:4

Sept. 21, 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	✓

10-22-48

31

SACRIFICED (chloroform-exsanguination)Autopsy: No gross lcs.TISSUE FOR SECTIONS 2 medulla 3 cervical 2 thoracic and 4 lumbar cord (2A)HISTOLOGY:

All segments free of pathology.

DIAGNOSIS: NO POLIO

Ph. 892-

Acute Serum 1:16.

Date Sept. 21, 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 ✓

10-22-48

10-22-48

31

SACRIFICED (chloroform-exsanguination)Autopsy: No gross lvsTISSUE FOR SECTION 2 medulla, 4 cervical 2 thoracic and
4 lumbar cord (Z.A.)HISTOLOGY: All segments reveal no pathology.DIAGNOSIS NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 893-

Acute Serum 1:16

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	Partial par. both lowers.
	11	Compl. par. rt. lower; part. par. other 3 extremities.
	12	NO Change.
	13.	Compl. par. both lowers; part. par. both uppers; weakness of neck, back, voice,
	14.	No Change
	15	Same.
		<u>Sacrificed</u> Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 894-

Acute Serum 1:16

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
9-29-48	8	Complete Paralysis of right upper, Partial Paralysis of the other three extremities
	9	Quadriplegia. Monkey has feeble movement in left hand
	10.	Quadriplegia.
	11	Quadriplegia; weak voice.
	12.	Same.
	13	Same.
	14	No Change
	15.	Quadriplegia; aphonia.
		<u>Sacrificed - Discarded</u>

RICE Homologous Neutralization Test

Rh. 895-

Serum Dilution Method

Acute Serum 1:16

Sept. 21, 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 ✓

10-22-48

31

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION 2 medulla, 5 cervical 1 thoracic and lumbar cord (2.A)

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 896-

Acute Serum 1:64

Date	Day	Remarks
Sept. 21, 1948	0	✓ (mild diarrhea).
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	Partial par. all 4 extremities; weak voice, neck, back.
	13	<u>DEAD</u> - discarded.

RICE

Homologous Neutralization Test

Serum Dilution Method

Rh. # 897-N (normal
rheuma)Acute Serum 1:64

Date Day Remarks

Sept. 21, 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 ✓

10-23-48

Sacrificed (chloroform-embalming) - No gross TB.

TISSUES FOR HISTOLOGY: 2 medulla; 4 cervical; 2 thoracic;
and 4 lumbar. (2-4)

HISTOLOGY: Above segments show no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 898-

Acute Serum. 1:64

Date	Day	Remarks
Sept. 21, 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	✓
10-26-48	35	SACRIFICED (chloroform-exsanguination) AUTOPSY: No gross the TISSUE FOR SECTION 4 lumbar and 5 cervical cord segments (2.A) 2 medulla and 2 thoracic

HISTOLOGY: Abn levels reveal no pathology.

DIAGNOSIS: NO POLIO

RICE

Homologous Neutralization Test

Serum Dilution Method

Rh. 899-

Acute Serum 1:64

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
9-30-48	9	Partial Paralysis of all extremities; Weakness of voice neck & back.
	10	Quadriplegia; aphonia.
	11.	" "
10-3-48	12.	DEAD :- Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 900 -Convalescent Serum
undilutedDate
Sept. 21, 1948

Day

Remarks

0 ✓

1 ✓

2 ✓

3 ✓

4 ✓

5 ✓

6 ✓

7 ✓

8 ✓

9 ✓

10 ✓

11 ✓

12 ✓

13 ✓

14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓

10-12-4820 $T = 97^{\circ}$ thin, mild diarrhea. General weakness, apathetic.
21 DEAD: - Autopsy: no gross TBC; not entirely emaciated.TISSUES FOR HISTOLOGY: Thalamus; midbrain; 2 medulla;
4 cervical; 1 Thoracic; 3 lumbar cord. (ZA).
(tissues very soft).HISTOLOGY: No evidence of pathology.DIAGNOSIS: NO POLIO

RICE

Homologous Neutralization Test

Serum Dilution Method

Rh. 901.Convalescent Serum -
undiluted.

Date	Day	Remarks
Sept. 21, 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 ✓

10-26-48

35

Observation terminated. Monkey tag number changed to 901X
so that he may be used again

11-12-48 Rh 901X used for Nervous Tissue Antibodies Experiment

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 902-

Convalescent
Serum - undiluted.

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓ Thin: serousy.
	11	✓ " "
	12	✓ " "
	13	✓ " "
	14	✓ thin serousy
	15	✓ " "
	16	✓ " "
	17	✓ " "
	18	✓ " "
	19	✓
	20	✓ Same condition
	21	✓ " "
	22	✓ " "
	23	✓ " "
	24	✓ " "
	25	✓ " "
	26	✓ " "
	27	✓ " "
	28	✓ " "
	29	✓ " "
	30	✓ " "
	31	✓ " "
	32	✓ <u>Sacrificed (chloroform asanguination) Autopsy</u>

10-2345

TISSUES FOR HISTOLOGY:

2 mandibles; Cervical; Thoracic; Lumbar. (2-A.)

11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 903-Convalescent
Serum - undiluted -

Date	Day	Remarks
Sept. 21, 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	✓	
10-26-48	35	<u>Observation Terminated</u> Monkey tag number changed to <u>903X</u> so that he may be used again
		<u>11-12-48 Rh 903X</u> used for Nervous Tissue Antibodies Experiment

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 904-

Convalescent Serum 1:4

Date	Day	Remarks
Sept. 21, 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	✓
10-22-48	31	FOUND DEAD

AUTOPSY: No gross nec
TISSUE FOR SECTION: 2 medulla, 8 cervical 3 thoracic and
 4 lumbar cord (Z.A.)

HISTOLOGY: Above segments show no pathology.

DIAGNOSIS: NO POLIO

Rh. 905-

Convalescent Serum 1:4

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	✓
	11	✓
	12	✓
	13	✓
	14	✓
	15	✓
10-7-48	16	Quadruplex; full movement of both hands.
	17	No Change
		<u>Sacrificed</u> Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 906-

Convalescent Serum 1:4

Date	Day	Remarks
Sept. 21, 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	✓

10-25-48 34 ✓ SACRIFICED (chloroform-exsanguination)

AUTOPSY: Morgagni the
TISSUE FOR SECTION 2 Medulla, 4 cervical 2 thoracic
 and 4 lumbar end segments (Z.A.)

HISTOLOGY: Above levels reveal no pathological changes.

DIAGNOSIS: NB POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 907-

Convalescent Serum 1:4

Date	Day	Remarks
Sept. 21, 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	✓

10-25-48

34

✓ SACRIFICED (chloroform-exsanguination)

AUTOPSY:

No gross the
TISSUE FOR SECTION 2 Medulla 4 cervical 2 thoracic and 3 lumbar
cord segments (Z.A.)HISTOLOGY! Above segments reveal no pathology.DIAGNOSIS: NO POLIO

Rh. 908-

Convalescent Serum 1:16

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
9/27/48	6	12. Aphonia; breathing with difficulty; has some difficulty in swallowing; There is general weakness of head, neck and all 4 extremities; - no facial paralysis; probably bulbar polio; expression alert. 3⁰⁰ p.m. Progression of above signs, getting weaker in all 4 extremities but no frank paralysis; breathing entirely abdominal. <u>Sacrificed - Autopsy</u>; no gross nec <u>Tissues</u>: 1. Nerves; 2. Midbrain; 2. Medulla; 4. Cervical; 1. Thoracic; 4. Lumbar cord. (2A.)

HISTOLOGY

Above sections do not reveal polio pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 909-Convalescent Serum 1:16

Date	Day	Remarks
Sept. 21, 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	✓

10-25-48 34 ✓ SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross the
TISSUE FOR SECTION 2 Medulla 5 cervical 2 thoracic and lumbar
 cord segments (Z.A.)

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

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 910-Convalescent Serum 1:16

Date	Day	Remarks
Sept. 21, 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	✓

10-25-48 34 ✓ SACRIFICED (chloroform-exsanguination)
Autopsy: No gross the
TISSUE FOR SECTION 2 Medulla 2 thoracic 5 cervical
 and 7 lumbar cord segments (2 A.)

HISTOLOGY: Above segments reveal no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 911

Convalescent Serum 1:16

Sept. 21, 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 ✓

10-25-48

34 ✓

SACRIFICED (chloroform-erysanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION 2 Medulla & cervical 2 thoracic and
2 lumbar cord segments (Z.A.)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 912

Convalescent Serum 1:64

Date Sept. 21, 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 ✓

10-25-48

34

✓ SACRIFICED (chloroform-exsanguination)
AUTOPSY: No gross the
TISSUE FOR SECTION 2 Medulla 5 cervical 2 thoracic
and 4 lumbar cord segments

HISTOLOGY: Above segments show no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 913

Convalescent Serum 1:64

Date	Day	Remarks
Sept. 21, 1948	0	✓

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	✓
10-25-48	34	✓ SACRIFICED (chloroform-exsanguination) AUTOPSY: No gross the TISSUE FOR SECTION 2 Mydulla 5 cervical 2 thoracic and 3 lumbar cord segments (2.A.) HISTOLOGY: Above segments free of pathology. DIAGNOSIS: <u>NO POLIO</u>

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 914-

Convalescent Serum 1:64

Sept. 21, 1948

Date

Day

Remarks

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

8

✓

9

✓

10

Pilo motor +; excited.

11

✓

12

Same; now weakness.

13

✓

14

✓

15

Seems OK today.

16

✓

17

✓

18

✓

19

✓

20

✓

21

✓

22

✓

23

✓

24

✓

25

✓

26

✓

27

✓

28

✓

29

✓

30

✓

31

✓

32

✓

33

✓

10-25-48

34

✓ SACRIFICED (chloroform-asphyxiation)

Autopsy: No gross the

TISSUE FOR SECTION 2 Medulla; 4 cervical 2 thoracic
and 4 lumbar cord segments. (Z.A.)HISTOLOGY:

These segments reveal no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 915Convalescent Serum 1:64-

Date	Day	Remarks
Sept. 21, 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	✓

10-25-48 BY ✓ SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross the
TISSUE FOR SECTION (3) Medulla 2 thoracic 5 cervical and 3
 lumbar cord segments (Z.A.)

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

RICE - cont'd

Mk. # Number Measure Cervical Medulla Middle Thalamic Other

10 No. 0 GROSS NEUTRALIZATION TEST (PLUS ALL IMMUNE SERUM) 10/28/48

SALINE Rh. 646

10⁻² 647.

SAL. 10⁻³ 648

649

650.

SAL. 10⁻⁴ 651

652

653.

Aggl. SERUM 10⁻¹ 654

655

656.

Aggl. SERUM 10⁻² 657

658

659.

Aggl. SERUM 10⁻³ 660

661

662.

Diagnosis

No Polio