

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.

h.p. = 39 WBC, 1625 RBC - Pandy pos.

8/14 - BLOOD OBTAINED (Stored in refrig. 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. (10<sup>30</sup> A.M.)

Clinic Visit to Orthopedics 8/30/48.

Bled ± 14 cc by Dr. Little (Serum V)



RICE, PATSY-

NOV 5 1947

B. Pharyngeal Swab Material.

Final Amount :- 2.4 c.c.

Culture :- ✓✓✓✓

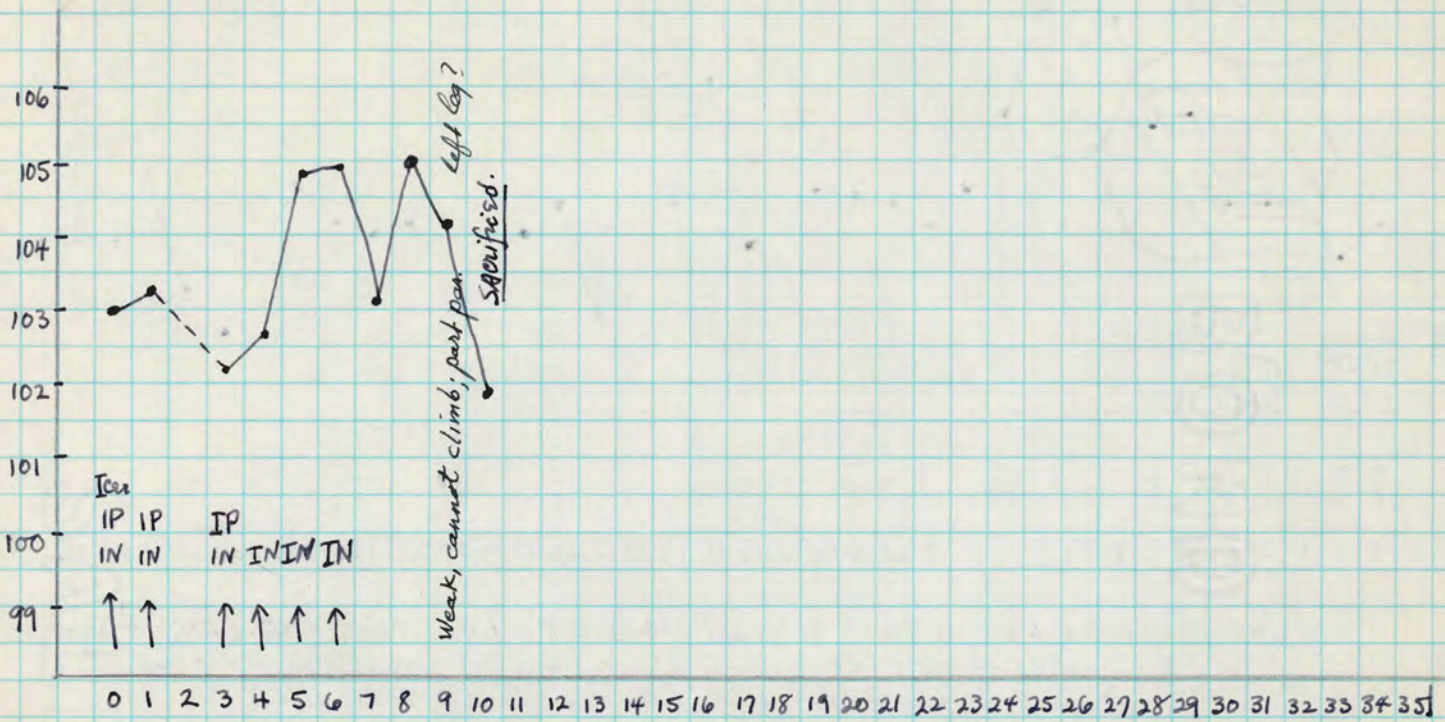
NOV 7 1947

RICE, PATSY.

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

Culture  
v v v  
v v v

RHESUS # 1.



11/7/47. - Inoculated 0.9 c.c. ICS; 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 q.v.; ± 6.5% remainder of 20% susp. frozen (B-1-9)

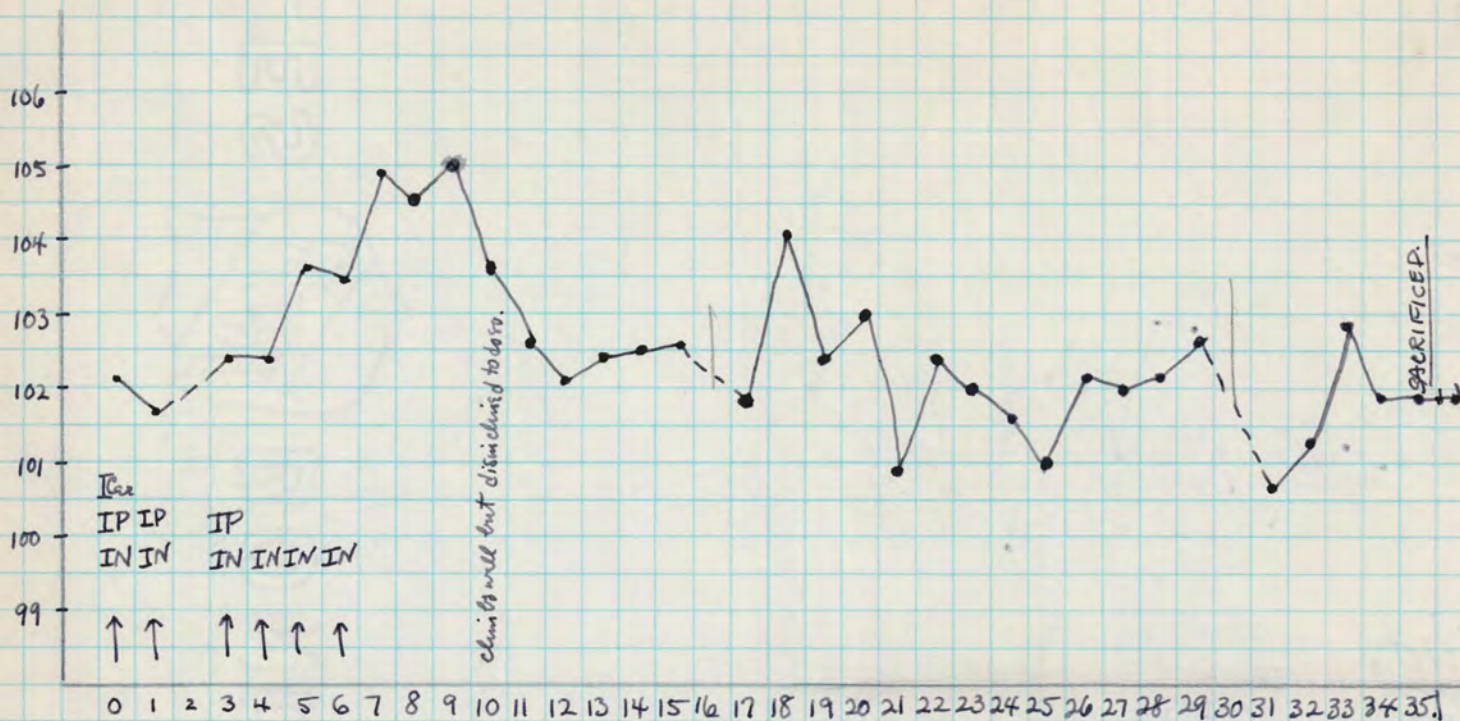
Dec 5 Histology - Polio +

NOV 7 1947

RICE, PATSY

Rhesus # 897 - splenectomized.

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



- 11/7/47. Inoculated 1.25 c.c. Icer. (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: NO POLIO

DEC 1 1947

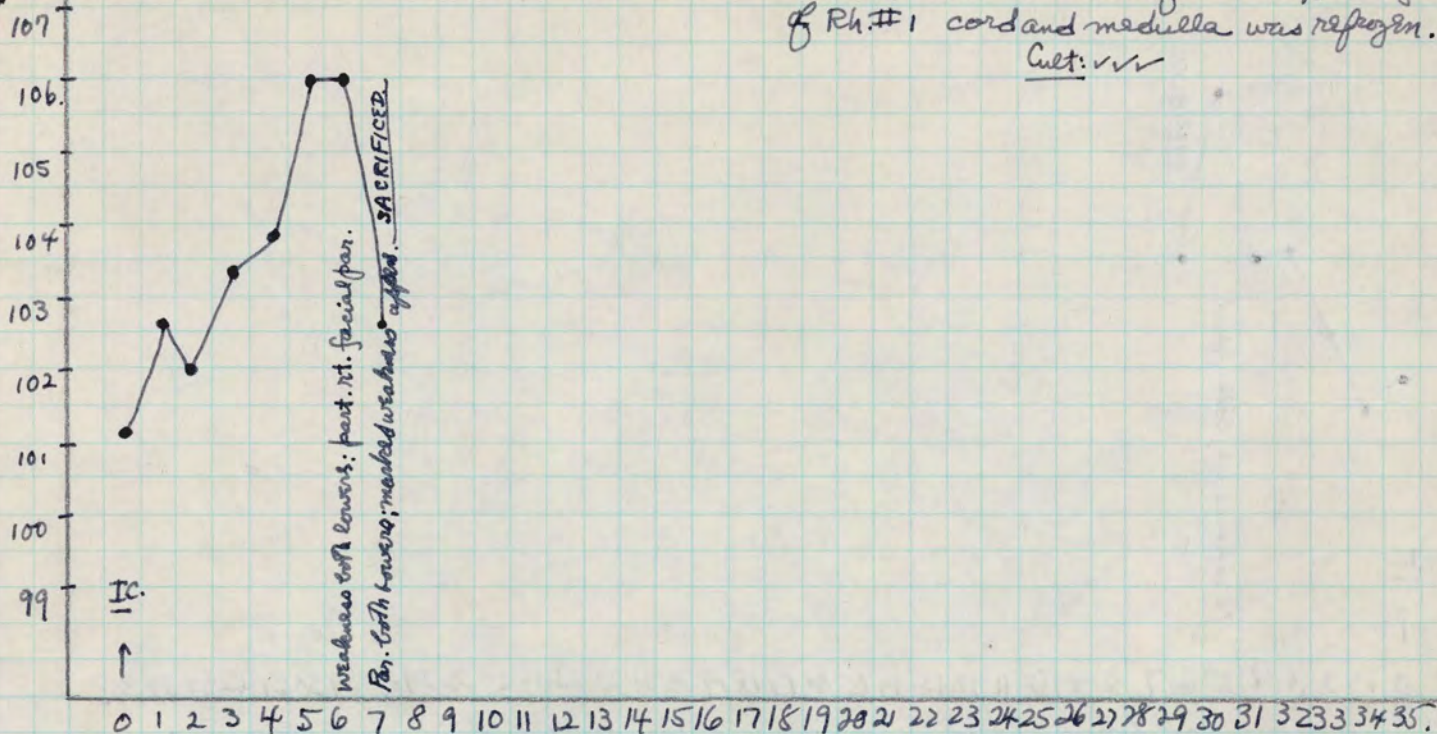
RICE POLIO - Rhesus Passage

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 prostrate; cannot raise head; moves only left side of feet but can close both eyes. - Sacrificed with chloroform - exsanguination. - Autopsy; no evidence of tuberculousis.

HISTOPATHOLOGY: Cord levels; medulla; + medulla-pons junction. (ZA)  
TISSUE FOR VIRUS: Cord + medulla pooled with Rh.# 18 (ovulaaf), 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

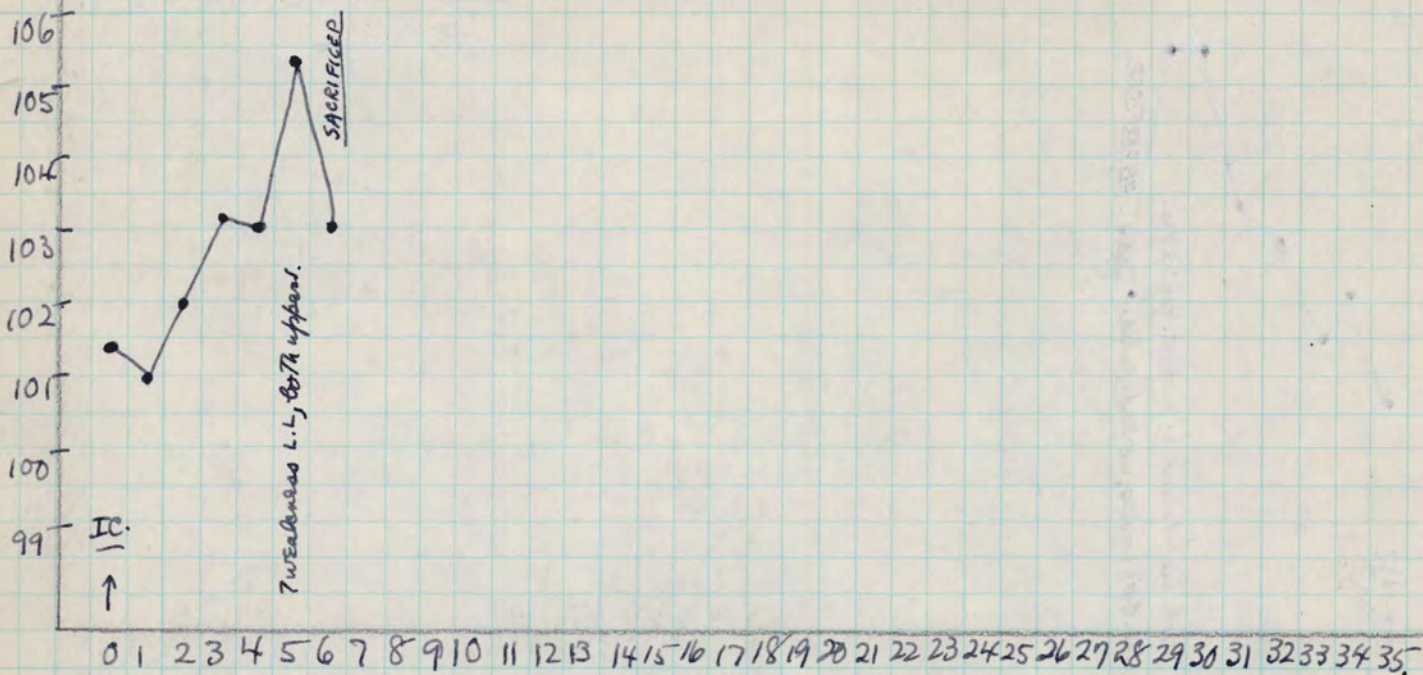
RICE POLIO.

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.

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

10<sup>-3.0</sup>

Titration of Rice Strain Polio

Rh # 435

$10^{-2}$

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	<p>Part. par. took uppers; weakness over back + neck. (Found <u>DEAD</u> 90 minutes later!) Autopsy: No gross thc.</p> <p>TISSUE FOR SECTION - One segment from each of lumbar and cervical cord levels (2-A)</p> <p>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)</p> <p><u>11-19-48</u> Tissue for section discarded</p>

Titration of Rice Strain Polio

Rh # 436

$10^{-2}$

Date	Day	Remarks
<b>MAY 15 1948</b>	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. <sup>(not complete AS)</sup> 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	<b>FOUND DEAD</b> <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 <del>about</del> 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
<b>MAY 15 1948</b>	0	mild diarrhea
	1	"
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
5-22-48	7	A.M. Pilomotor t. PM. - Same.
5-23-48	8	Excited. pilomotor response.
5-24-48	9	no change. T=103 <sup>8</sup> .
5-25-48	10	T=101 <sup>2</sup> No change.
5-26-48	11	T=102 <sup>2</sup> " "
	12	T=101 <sup>8</sup> " "
	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	✓ <del>Bled</del> <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<sup>-3</sup>

Date	Day	Remarks
MAY 15 1948	0	✓
	1	✓
	2	✓
	3	✓
5-19-48	4	Definite pilomotor resp.
5-20-48	5	✓ T=101 <sup>8</sup>
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 <sup>2</sup>
5-25-48	10	T=101 <sup>2</sup> Definite pilomotor response.
5-26-48	11	T=101 <sup>2</sup> no change
	12	T=102 <sup>2</sup> 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> Then sacrificed; Autopsy: <sup>no pos</sup> T <sub>62</sub>

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 <sup>3</sup> . disinclined to climb.
5-23-48	8	Prostrate - almost complete paralysis of all 4 ext. Aphonia. Droop. 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 thic.

TISSUE FOR SECTION - Several sections from each of cervical, thoracic, + lumbar cord levels (2-A)

HISTOLOGY: The levels show extensive loss of neurons 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<sup>-4</sup>

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 quantitative  
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.	<p>Quadriplegia; complete rt. facial; alert.</p> <p><u>SACRIFICED</u> (chloroform-exsanguination)</p> <p>TISSUE FOR SECTION - One segment from each of lumbar and cervical cord (2-A)</p> <p>TISSUE FOR VIRUS - Cord-mesulla (remainder) pooled &amp; that of Rh 435 to make a 20% susp. in saline. (See Rh 435.)</p> <p><u>11-19-48</u> tissues for section discarded</p>

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	✓	
	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 & 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	✓	
	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 ltr

HISTOLOGY!

NO POLIO

Titration of Rice Strain Polio

10.5

Rh # 445

MAY 15 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 ✓

6-12-48

6-15-48

31

✓ SACRIFICED (chloroform-exsanguination)  
TISSUE FOR SECTION ~~single~~ <sup>two</sup> segments of lumbar, thoracic  
 and cervical cord, medulla, midbrain & thalamus (ZA)  
AUTOPSY no gross lcs

HISTOLOGY: These sections show no pathological change.

DIAGNOSIS: NO POLIO

Titration of Rice Strain Polio

Rh # 446

10<sup>-5</sup>

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	✓
6-15-48	30	✓	
	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

G-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 - 6<sup>th</sup> day of illness. (Frozen)

2) CONVALESCENT :- 11/11/47 - 92<sup>nd</sup> .. .. (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 neutr. 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 in bath during inoculations on 6-29-48.

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

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

## 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 - 14 sanguination) - Autopsy - no gross TBC

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	<u>FOUND DEAD</u>

AUTOPSY: No gross lcs

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 4<sup>th</sup> 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	" " <u>Bled for serum</u>
	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	91	Compl. par. both lowers, Part. par. both uppers; Monkey can not sit up but eats and moves head well
9-30-48		<u>Bled for serum</u>

10-2-48 - DEAD: Autopsy: no gross T<sub>BE</sub> or visceral changes.

TISSUES FOR "OLD POLIO" CHANGES: Lumbar + cervical segments. (very pulfaceous) - (Z-D. - 10-6-48 - Tissues too soft to trim. - 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<sup>3</sup> Part. Paralysis of all 4 extremities. Weak back & neck  
Sacrificed (chloroform - asanguination) - Autopsy: no gross TB.

TISSUE FOR SECTION: segments of lumbar & cervical cord.

TISSUE FOR VIEWS: cord-medulla frozen in isotheroid tube. (d-9)

Contact culture BAP: - ✓✓

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

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

DIAGNOSIS: POLIO (Acute)

Rh 650

RICE Homologous Neutralization Test

Saline control  $10^{-3}$

DATE	DAY	REMARKS
JUN 29 1948	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	Quadriplegia - right facial
	18	"
	19	No change
7-19-48	20	<u>FOUND DEAD</u>
		<u>AUTOPSY:</u> No gross tbc
		<u>TISSUE FOR SECTION:</u> single segments of lumbar & cervical cord; & medulla (2.A.)
		<u>issue for section very soft.</u>
		<u>11-19-48 Tissues Discarded</u>

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 tremors
	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	" " <u>Bled for serum</u>
	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	<u>FOUND DEAD</u>

7-9-48  
Bled for serum

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. *Bled 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  $10^{-4}$

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 ✓
- 34 ✓
- 35 ✓

8-2-48

8-4-48

SACRIFICED - (chloroform - exsanguination)  
 AUTOPSY - No gross obs  
 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<sup>-1</sup>

DATE DAY REMARKS

JUN 29 1948

DATE	DAY	REMARKS
	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	Thine
	8	Thine
	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 <u>Bled for serum</u>
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; <del>Part</del> 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		<u>Bled for serum</u>
		<u>10-7-48 - Homologous Challenge IC (see record).</u>

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	✓
8-2-48	34	✓
	35	✓

8-4-48 36 SACRIFICED - (Chloroform - Exsanguination)  
 AUTOPSY - No gross the  
 TISSUE FOR SECTION - ~~5~~ segments of lumbar, thoracic<sup>(2)</sup>  
 and cervical cord; 1 medulla, midbrain and  
 thalamus → (2A) (Midbr. & thalamus discarded 9/17/48)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS NO POLIO

RICE ) Homologous Neutralization Test

Rh 656

Acute serum 10<sup>-11</sup>

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 tbc

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

(1) 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 ✓  
8-2-48 34 ✓  
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

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
	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
		<u>SACRIFICED:</u> (chloroform-exsanguination)
		<u>AUTOPSY:</u> No gross the
		<u>TISSUE FOR H&amp;E SECTION:</u> Single segments of lumbar and cervical & thoracic cord; medulla; thalamus and midbrain (Z.A.)
		discarded 9/17/48.
		<u>11-17-48</u> 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  $10^{-3}$

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 660-X  
 Monkey to be used again.  
8-30-48 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-exasanguination)  
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 Issues discarded

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

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 ✓
- 34 ✓
- 35 ✓

8-2-48  
8-3-48

Observation Terminated Monkey tag <sup>\*</sup> changed to 663X  
 Monkey to be used again.  
8-4-48 Rh 663X given to Drs. Sabin and Hambro for  
 Plasmacid and / S.N. 13058-17 Expt.

RICE Homologous Neutralization Test  
Rh 664 Acute Serum  $10^{-4}$

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 ✓
- 34 ✓

8-2-48

8-3-48

35

✓ Observation terminated. Monkey tag # changed to 664-X  
Monkey to be used again.

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

RICE Homologous Neutralization Test  
Rh 665 Acute Serum  $110^{-4}$

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<sup>-1</sup>

JUN 29 1948

DATE DAY REMARKS

- 0 ✓
- 1 ✓ *thin*
- 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 ✓ *Observation Terminated*

8-2-48  
8-3-48

*Monkey tag # changed to 666 X and set aside to be used again*  
 8-4-48 Rh 666X given to Dr. Sabin and Gumboa 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	✓ <del>thin</del>
25	✓
26	✓
27	✓
28	✓
29	✓
30	✓
31	✓
32	✓
33	✓
34	✓
35	✓ <u>Observation Terminated. Monkey tag # changed to 670 X</u>

8-2-48

8-3-48

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

- 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  $10^{-7}$

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  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓ mild diarrhea  
✓  
✓  
✓  
✓  
✓ mild diarrhea  
✓ " "  
✓ thin "  
✓ " "  
General Weakness, very apathetic; severe diarrhea; thin  
Same condition  
FOOD DEAD..

AUTOPSY: No gross lcs.  
TISSUE FOR SECTION: Single 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 ✓

✓ thin Men. Weakness

7-9-48

10

FOUND DEAD

AUTOPSY: No gross the  
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 ✓
- 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 676 X  
Monkey to be used again

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

RICE Homologous Neutralization Test  
Rh 677 Convalescent Serum 10<sup>-4</sup>

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  
8-3-48

34 ✓  
35 ✓ Observation terminated Monkey tag # changed to 677X  
Monkey to be used again  
8/31/48 Given to Drs. Salson & Tambora 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  
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✓  
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✓  
✓  
✓

29 thin - general weakness - tires easily

30  
31  
32  
33  
34  
35

30 same  
31 thin mild diarrhea  
32 thin  
33 thin - mild diarrhea  
34 thin  
35 thin

8-2-48  
8-3-48

SACRIFICED (chloroform-exsanguination)

AUTOPSY: No gross 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 lby  
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  $10^{-1}$

JUN 29 1948

DATE	DAY	REMARKS
	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: 104.2 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 (Z.A.)
		<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  
into PV. infiltration.

DIAGNOSIS: POLIO (Acute)

RICE Homologous Neutralization Test  
Rh 682                      MV Immune Serum [10<sup>-9</sup>]

DATE DAY REMARKS

JUN 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>
			<u>10-7-48</u> - 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 ✓

7-12-48

- 12 ✓ Disinclined to climb.
- 13 Quadriplegia; Weak voice; Right facial.
- 14 No change
- 15 " "
- 16 " "
- 17 Quadriplegia; aphonia; Compl. bilat facial
- 18 No change
- 19 " "
- 20 " "
- 21 " "

7-12 Bled for serum

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: dome sinus right wrist
	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 tbc; spinal cord soft.

TISSUE FOR SECTION Several segments of lumbar & cervical cord (Z.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 <u>7-12- Bled for serum</u>
	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	" " <u>Bled for serum</u>
	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		<u>Bled for serum.</u>
		<u>10-7-48</u> - 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 those two tests was  $10^{3.7}$  - so that the fixed dose of virus is 50 PD<sub>50</sub> 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 (6<sup>th</sup> day of illness)  
CONVALESCENT: - 11/11/47. (92<sup>nd</sup> 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.e.r.

FINAL CONCENTRATION OF VIRUS = 1:100

SERUM:	UNDILUTED	1:4	1:16	1:64
<u>ACUTE</u> 8/14/47. 5 <sup>th</sup> day after onset	Rh. 8840; X <sub>35</sub> 8850; X <sub>35</sub> 8860 <sub>41</sub> ○ 8870; X <sub>35</sub>	Rh. 888 P <sub>10</sub> + 8890; K <sub>31</sub> "old" "NP" ○ 8900; K <sub>31</sub> ○ 8910; K <sub>31</sub>	Rh. 8920; K <sub>31</sub> ○ 893 P <sub>10</sub> 894 P <sub>8</sub> 8950; K <sub>31</sub> ○	Rh. 896 P <sub>12</sub> ○ 897-NOK <sub>32</sub> ○ 8980; K <sub>35</sub> 899 P <sub>9</sub>
<u>CONVALESCENT</u> 11/11/47. 91 <sup>st</sup> day after onset	Rh. 900 D <sub>21</sub> ○ 9010; X <sub>35</sub> 9020; K <sub>32</sub> 9030; X <sub>35</sub>	Rh. 9040 <sub>31</sub> ○ 905 P <sub>16</sub> 9060; K <sub>34</sub> ○ 9070; K <sub>34</sub> ○	Rh. 90856 ○ 9090; K <sub>34</sub> ○ 9100; K <sub>34</sub> ○ 9110; K <sub>34</sub> ○	Rh. 912 ○ <sub>OK<sub>34</sub></sub> 913 ○ <sub>OK<sub>34</sub></sub> 914 ○ <sub>OK<sub>34</sub></sub> 915 ○ <sub>OK<sub>34</sub></sub>

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

## RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 823-Saline 1:100 virus -

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
9-30-48	9	<p>(No gross TBs)</p> <p>Partial Paralysis of all 4 extremities. - Sacrificed (chloroform            Esanguination) - - Cord medulla pooled with that of            Rh. 872 (q.v.); combined wt = 11.4 Gms; made up            in micro-Waring blender to 58 cc (is a 20% susp);            centrifuged and frozen in (<math>\pm 35^{\circ}</math>) three 20<sup>cc</sup> and one 10<sup>cc</sup>            ampoule. Vials #1, 2, 3 and 4 respectively stored in (8-7-6)  <u>Cult.</u> ✓✓</p>

## RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 871Saline 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 loaves. Disinclined to climb
	10.	Part. par. all 4 extremities.
	11.	Quadriplegia; aphonia.
	12.	Same.
	13.	<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).
	<u>10</u>	

Rh. 874-Saline 1:100 Virus -

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
9-27-48	6	<p>T=104° Complete Paralysis of right lower and left upper;  Partial Paralysis of left lower and right upper;  10<sup>00</sup> a.m. Complete Aphonia. Weak neck and back.  2<sup>30</sup> p.m. DEAD. - <u>Autopsy</u>: no gross TBC.</p> <p><u>ISSUES</u>: Cord Levels. (Z.A.)  <u>11-19-48</u> Tissues Discarded</p>

## 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.	Moribund.
		<u>Sacrificed - Discarded</u>

## 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	<u>DEAD</u> - 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<sup>-4</sup> virus-

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

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

Rh. 879.SalmE 10<sup>-4</sup> virus.

Date Day Remarks

Sept. 21, 1948

0

✓

1

✓

2

✓

3

✓

4

✓

5

✓

6

✓

7

✓

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✓

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✓

10-22-48

31

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

Rh. 880Saline 10<sup>-4</sup> 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 ✓  
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 21 ✓  
 22 ✓  
 23 ✓  
 24 ✓  
 25 ✓  
 26 ✓  
 27 ✓  
 28 ✓  
 29 ✓  
 30 ✓

10-2248

31

SACRIFICED (chloroform-exsanguination)AUTOPSY: No gross lbcTISSUE FOR SECTION 2 medulla, 2 thoracic, 4 cervical (2.A.)  
and 1 lumbar cord.HISTOLOGY: Above segments free of pathology.DIAGNOSIS: NO POLIO

## RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 881.Saline 10<sup>-5</sup> virus.

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	✓ small - Noun	
10-26-48	35	SAERIFICED (chloroform - exsanguination) <u>AUTOPSY:</u> No gross bc <u>TISSUE FOR SECTION</u> Spinal and cervical cord segments (2. A) medulla and thoracic <u>11-19-48</u> Tissues Discarded

## RICE Homologous Neutralization Test

## Serum Dilution Method

Rh. 882-

Saline 10<sup>-5</sup> 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	<u>SACRIFICED</u> (chloroform-exsanguination) <u>AUTOPSY</u> : No gross lbc <u>TISSUE FOR SECTION</u> medulla, cervical, thoracic lumber (L.A.) 11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 883.

Saline 10<sup>-5</sup> virus.

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 SACRIFICED (chloroform-exsanguination)  
AUTOPSY: No gross the  
TISSUE FOR SECTION Lumbar and cervical cord segments (Z.A.)  
 medulla and thoracic  
11-17-48 Tissues Discarded

## RICE Homologous Neutralization Test

## Serum Dilution Method

Rh. 884-Acute Serum - unadulterated.

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 884X so that he may be used again

11-8-48 Used as control monkey to receive 100 PD<sub>50</sub> 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.

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	<u>Observation Terminated</u> Monkey tag number changed to <u>885X</u> ; so that he may be used again
		<u>11-12-48 Rh 885X</u> used for Nervous Tissue Antibodies Experiment

Rh. 886-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>886X</u> ; so that he may be used again
11-1-48	41	<u>DEAD</u> :- Autopsy: All viscera grossly normal. <u>TISSUES FOR SECTION</u> : 3 medulla; 5 cervical; 2 Thoracic; 4 lumbar (2A). <u>HISTOLOGY</u> : Above segments show no pathology. <u>DIAGNOSIS</u> : <u>NO POLIO</u>

## RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 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 ORL 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-exasanguination)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: POLIO ('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- <del>exsanguination</del> )

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

Serum Dilution Method

Ph. 891-

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 midulla 3 cervical 2 thoracic and 4 lumbar cord (2A)HISTOLOGY:

All spinal segments free of pathology.

DIAGNOSIS: NO POLIO

Ph. 892-

Acute 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	✓
10-22-48	30	✓
10-22-48	31	✓

SACRIFICED (chloroform-exsanguination)

Autopsy: No gross lve

TISSUE FOR SECTION 2 medulla, 4 cervical 2 thoracic and  
4 lumbar cord (Z.A.)

HISTOLOGY: All cord segments reveal no pathology.

DIAGNOSIS NO POLIO

## RICE Homologous Neutralization Test

## Serum Dilution Method

Ph. 893-

Acute Serum 1:16

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	Partial pos. both lowers.
	11	Compl. pos. rt. lower; part. pos. over 3 ext. joints.
	12	NO Change.
	13.	Compl. pos. both lowers; part. pos. 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>

Rh. 895-

Serum Dilution Method

Acute 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	✓

10-22-48

31

SACRIFICED (chloroform-exsanguination)AUTOPSY: No gross theTISSUE FOR SECTION 2 medulla, 5 cervical, 1 thoracic and 1 lumbar cord (Z.A.)HISTOLOGY: Above segments reveal no pathology.DIAGNOSIS: NO POLIO

## RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 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-exsanguination) - NO gross TB.

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

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	<u>SACRIFICED</u> (chloroform-exsanguination) <u>AUTOPSY:</u> No gross the <u>TISSUE FOR SECTION</u> 4 lumbar and 5 cervical cord segments (2.A) 2 medulla and 2 thoracic

HISTOLOGIST: Above 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

9-30-48

Partial Paralysis of all extremities; Weakness of voice neck & back.  
 Quadriplegia; aphonia.  
 " "

10-3-48

12. DEAD :- Discarded

## RICE Homologous Neutralisation 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 ✓

10-12-48 20 ✓ = 97% 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

Ph. 901.

Cowalescent 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 Ph 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	✓	" "	
10-2345	32	✓ <u>Sacrificed (chloroform exsanguination) Autopsy-</u>	

TISSUES FOR HISTOLOGY:

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

11-19-48 Tissues Discarded

RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 903-

Convalescent - undiluted -  
Serum

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 903X so that he may be used again

11-12-48 Rh 903X used for Nervous Tissue Antibodies Experiment

## RICE Homologous Neutralization Test

Serum Dilution Method

Rh. 904 -Cowalescent 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	<u>FOUND DEAD</u>

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	Quadriplegia; subtle movement of both hands.
	17	No Change <u>Sacrificed</u> Discarded

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 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	✓
9/27/48.	5	✓
	6	12:00 A. 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.
		3:00 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> : Nalamus; midbrain; 2 Medulla; 4 Cervical; 1 Thoracic; 4 Lumbosacral. (2A.)
		<u>HISTOLOGY</u> : Above sections do not reveal polio pathology.
		<u>DIAGNOSIS</u> : <u>NO POLIO</u>

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

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-erysanguination) 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

Cowalescent 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 Abn  
TISSUE FOR SECTION 2 Medulla @ cervical 2 thoracic and  
 2 lumbar cord segments (2.A.)

HISTOLOGY: Above levels show no pathology.

DIAGNOSIS: NO POLIO

RICE Homologous Neutralization Test

Serum Dilution Method

Ph. 912

Convalescent 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

34 ✓ SACRIFICED (chloroform-exasanguination)  
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

Covalescent Serum 1:64

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-exsanguination) AUTOPSY: No gross the TISSUE FOR SECTION 2 Cervical 2 Thoracic and 3 lumbar cord segments (2.A.)  HISTOLOGY: Above segments free of pathology.  DIAGNOSIS: <u>NO POLIO</u>

## RICE Homologous Neutralisation Test

## Serum Dilution Method

Rh. 914-

Convalescent Serum 1:64

Date	Day	Remarks
Sept. 21, 1948	0	✓
	1	✓
	2	✓
	3	✓
	4	✓
	5	✓
	6	✓
	7	✓
	8	✓
	9	✓
	10	Paromotor +; excited.
	11	" " "
	12	Same; now weakless.
	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-anaesthesia) <u>AUTOPSY:</u> No gross the <u>TISSUE FOR SECTION 2</u> Medulla; 4 cervical 2 thoracic and 4 lumbar cord segments. (Z.A.)  <u>HISTOLOGY:</u> Cord segments reveal no pathology.  <u>DIAGNOSIS:</u> <u>NO POLIO</u>

## 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

RIE - cont'd

Mk. #      Number      Row      Column      Module      Midbeam      Tray      Other

NO NO GOTS NEUTRALIZATION TEST (PLUS ALL IMMUNE SERUM) 6/28/48

SALINE Rh. 646

10<sup>-2</sup>  
647.

SAL. 10<sup>-3</sup>  
648

649

650.

SAL. 10<sup>-4</sup>  
651

652

653.

AQUA SERUM 10<sup>-1</sup>  
654

655

656.

AQUA SERUM 10<sup>-2</sup>  
657

658

659.

AQUA SERUM 10<sup>-3</sup>  
660

661

662.

D/G NOT

