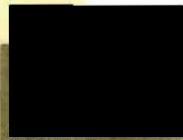
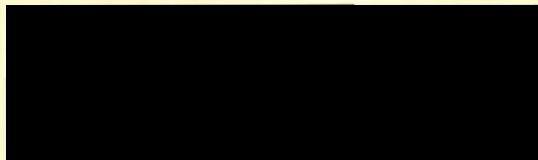


Polio 1942.



Cincinnati.

7/23/47.

- white; ♂; 2 yrd.

ONSET: 7/20/47. I felt feverish to touch on evening of 7/20/47, and in the morning of 7/21/47 would not use his rt. leg. On 7/22/47 he complained of pain in neck and lower back and still felt feverish. No pain or tenderness in legs. Became constipated at onset and remained so until admission on 7/23/47. - Vomiting several times for the 24 hrs. prior to admission, and anorexia for 3 days.

Adm. Exam: Neck and spinal rigidity; moderate hamstring $T=101^{\circ}(R)$ spasm; cannot get child to cooperate well for muscle exam; when stood up, his right leg "buckles" under him.

CSF. 7/23/47 - clear ^{cells} 142 wbc. - 98% lymphs. -

7/24 - Fever continues; coughing occasionally and having questionable difficulty in swallowing the secretions. - Neck + back still quite stiff.

7/25. Afebrile; more alert. -

August 15, 1947 - Transferred to C. H. - 4 West. (Chart # 58327)

Oct. 10, 1947 - Transferred to St. Elizabeth's Hospital, Covington Ky, under care of Dr. Vinke.

NOV 5 1947

A. Stools.

11/5/47. Estimated Solids - 55.0 gms.
Liquid Present - ± 150 c.c.
Distilled Water added - 100 c.c.

Mixture Blended 1 minute, low speed - 350 cc of blended stool.

For Centrifugation - 270 cc.

For Refrigerating 100 cc. (old vacume box)

First Supernatant = 140 cc - 20% Ether added. (28 cc added) _{ABS}

Untreated Sediment = 35.0 cc for intranasal inoculation.

11/6/47. Final Amount Treated Stool Suspension = ± 105 c.c.

Culture (prior to final centrifugation) - $\times \pm 50$ colonies - "tiny"
Culture (after centrifugation) - $\times \pm 50$ colonies - *gm. neg. and pos. rods.*
(amphiphile)

11/7/47 Re-Etherization of Suspension - 21 cc. Ether added _{ABS}

11/8/47. Centrifuged. - Yield $\pm 95-100$ c.c.

Culture: ± 50 colonies - *gm. neg. and pos. rods.* (48 hrs. reading)

11/10/47. Re-Etherization (20%) of Remaining 46.0 cc of Suspension - 9 cc Ether added.

11/11/47. Centrifuged. - Yield ± 38.0 cc.

Culture: $\pm 10-15$ small colonies.

DEC 9 1947 - The 100 cc. of frozen blended pool was thawed; ± 30 cc of this 20% mixture set aside for intranasal use; ± 70 cc. of distilled water shaken with remainder of blend, and thrown forward next group of monkeys - 20% susp. untreated mas.

10% susp. treat with ether treated by centrifugation. -

First Supernatant = 130 cc.
Ether Added = 20 cc.

Am't of Untreated Stool Sediment = 35 cc. (for intranasal inoc.)

12/10/47. - Final Am't Treated Stool Suspension = 120 c.c.

Cult. - (Before Final Centrifugation) \times many "tiny colonies" - small *gm. neg. rods.*
(After Final Centrifugation) \times many "tiny colonies" - ditto.

12/11/47. - Re-Etherized - 24.0 cc. Ether Added. -

12/12/47. - Final Am't of Stool Susp. after Re-Etherization = 45 cc (one 100 cc tube broken in centrifuge 11-12-47 - Sedlitz)

Cult. (Before Final Centrifugation) - $\checkmark \checkmark \checkmark$
(After Final Centrifugation) - $\checkmark \checkmark \checkmark$

NOV 5 1947

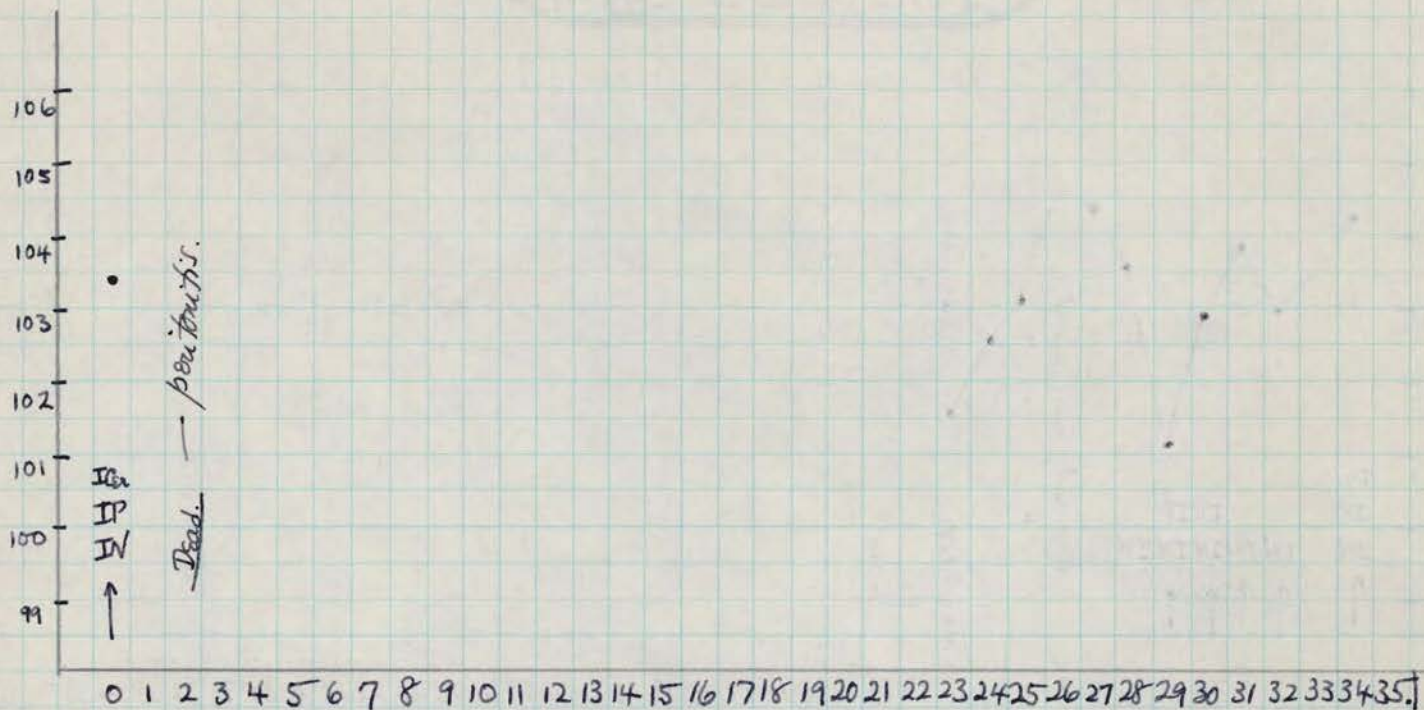
B. Pharyngeal Swab Material -

Final Amount = 1.9 cc.
Culture - ✓✓✓✓

NOV 8 1947

Rhesus #3-

Treated Pharyngeal Swabs -	ICer.	Culture
Treated Stool - - - - -	IP	✓✓✓
untreated stool - - - - -	IN	×10-15mm. colonies



11/8/47. - Inoculated 0.9 cc. ICer; 20.0 cc. IP; and 1.0 cc. IN each nostril.

11/10/47. - Found dead. - (When fed yesterday - Sunday - by Kenneth The animal was alive and did not seem unusual to that observer.)

Autopsy: very many plastic adhesions between omentum, liver, large and small bowel; - visceral and parietal layers of peritoneum very hyperemic; very little free exudate in peritoneum. - lungs revealed atelectasis and congestion of lower portions only.

Smear Peritoneal Exudate - many polymorph. cells and rods.

Cult Peritoneum: × very many uniform colonies - (Gram. neg. rods on smear.)

Cult. Heart Blood: × very many uniform colonies (with inhibition) - (Gram. neg. rods.)

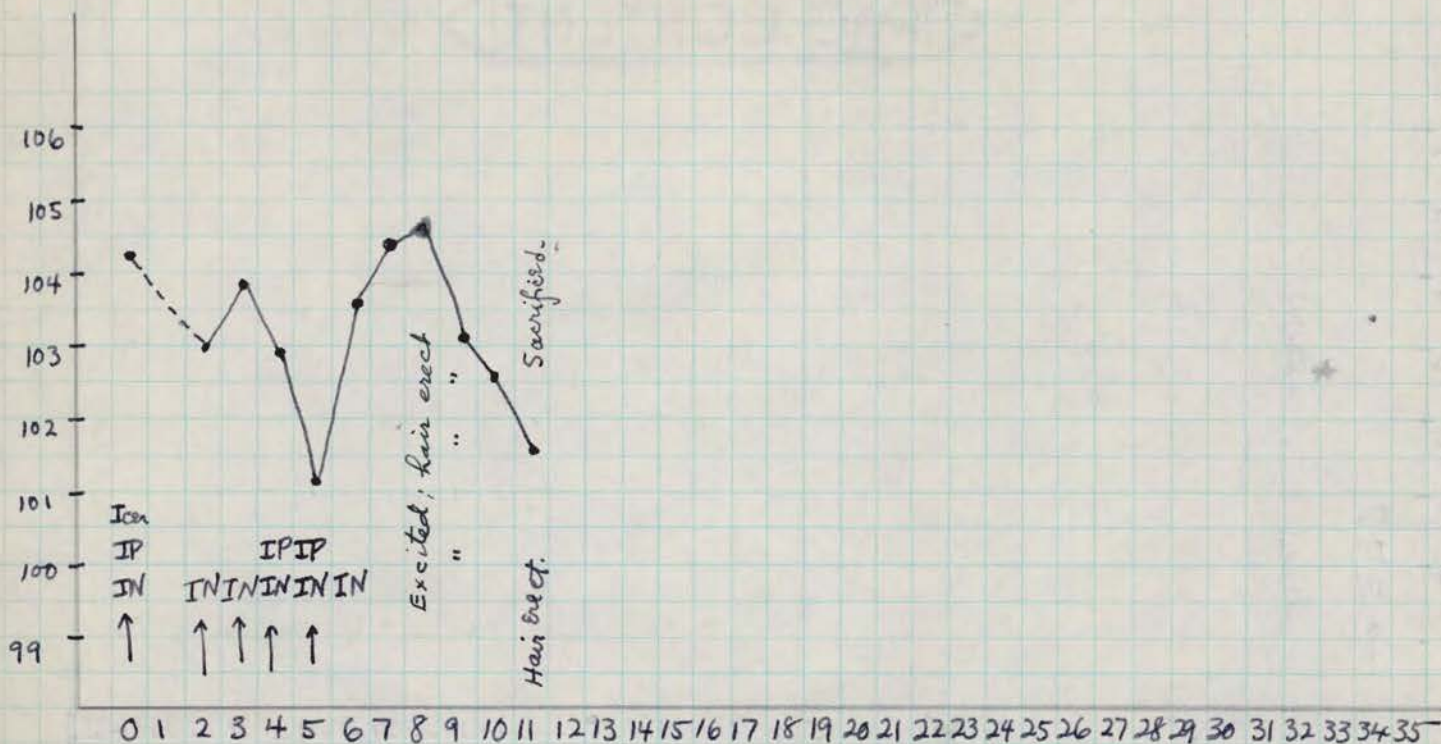
Cult. Cisternal Fluid: - × very many uniform colonies - (Gram. neg. rods.)

No tissues removed.

NOV 8 1947

Treated Pharyngeal Swabs - Icer.
Treated Stools --- IP
Untreated Stools --- IN

Rhesus # 841 - splenectomized.

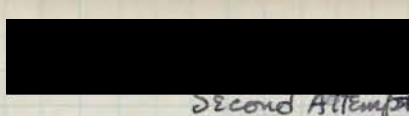


- 11/8/47. - Inoculated 0.9 cc. Icer; 20.0 cc. IP; and 1.0 cc. IN each nostril.
- 11/10/47. - Inoculated 1.0 cc. IN each nostril; withheld IP injection (see culture after re-strengthening)
- 11/12/47. - The re-strengthened stool used for IP inoc. today. (20.0 cc.)
- 11/13/47. - IP today was 15.0 cc.

11/19/47. - Sacrificed: - HISTOPATHOLOGY: Sections of lumbar, thoracic, and cervical spinal cord; medulla; thalamus; both defactory bulbs; also lung (extensive granulomatous process both main lobes). -- No accessory spleen.
TISSUE FOR VIRUS: portions of levels of spinal cord, of medulla and of thalami frozen in a luer lock tube (ci)
 12-12-47 - Cord discarded in view of no histologic evidence of polio.

Dec. 5 - No evidence of POLIO
PULMONARY Tuberculosis

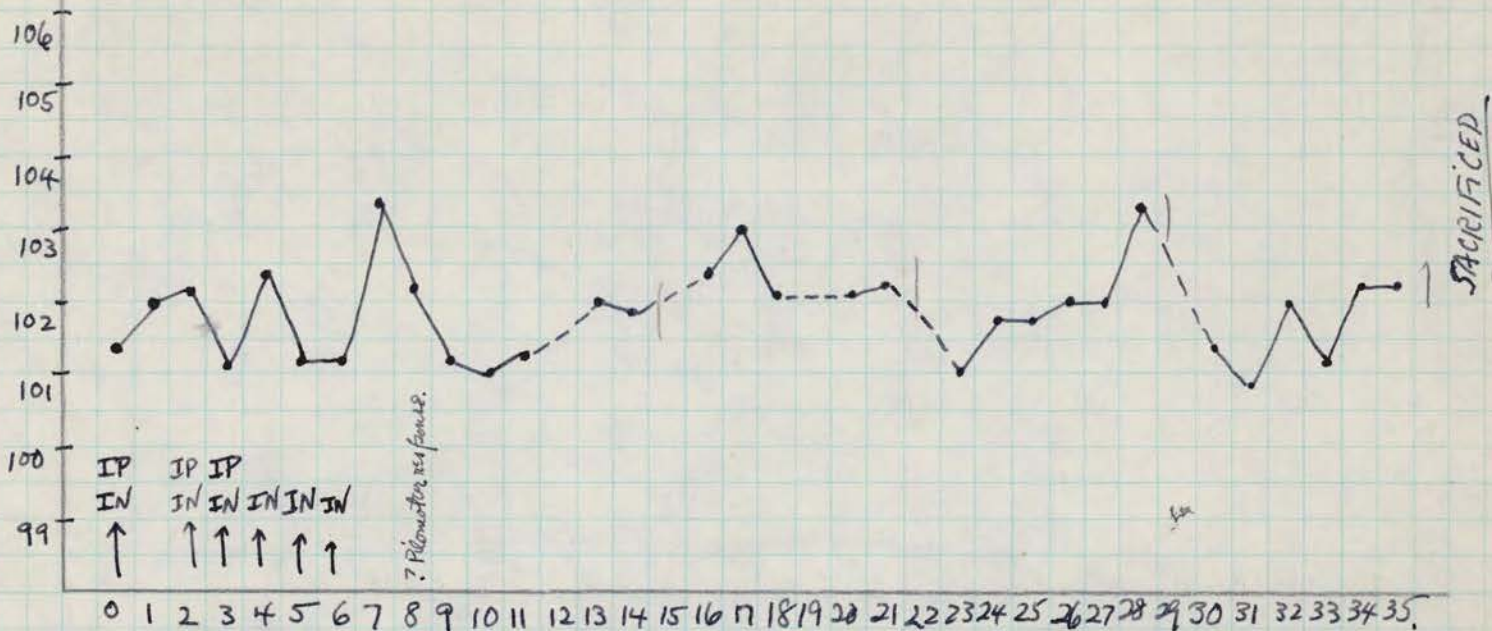
DEC 13 1947



Treated Stools IP ✓✓✓ aut: ✓✓✓

Second Attempt at Virus Isolation. Untreated Stools IN —

Rhesus # 52-



12/13/47. Inoculated 20 cc IP, and 1 cc per nostril IN.

12/16/47. - The IP dose was 7.0 cc.

1-14-48 - partial prolapse of rectum.

1-19-48. Sacrificed (chloroform-exsanguination) - for histopathology:

Autopsy: no gross TBC.
olfactory bulbs; telamus; hypothalamus; medulla; cord levels (Z-A)

Histology - Mr. Polue

Bio-1942 - MONKEY HISTOLOGY

MK.#	<u>Lumbar.</u>	<u>Thoracic.</u>	<u>Cervical.</u>	<u>Medulla.</u>	<u>Milbrain.</u>	<u>Neolans.</u>	<u>Hypothal.</u>	<u>Opt. Nerves.</u>	<u>Diagnosis.</u>
Rh. 8H1.	0	0	0	0	-	0	0	0	poor 0;0; <u>No folio.</u>
Rh. 52.	0	0	0	0	0	0	-	0;0;	<u>No folio</u>