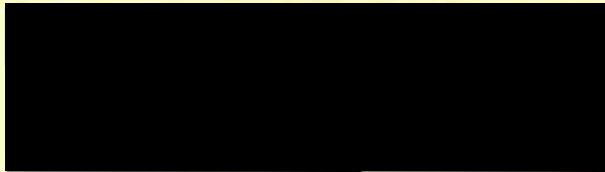


Polio, 1947



Aeron



white, ♂; 5 yrs.

Onset: 8/26/47.

History: Onset 8/26/47 with emesis and fever. Again vomited several x in the evening of 8/26/47. He complains of headache, stomach-ache, and pains in the knees. The emesis has been quite forceful.

Admission Exam: Mild nuchal rigidity. marked low back spasm. Kernig sign slightly positive bilaterally. moderate hamstring spasm.

<u>C.S.F.</u> 8/27	<u>cells.</u> 93	<u>lymphs</u> 100%	<u>Globulin</u> +
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Notes: 8/28. - T. 99°F. mild nuchal rigidity; still has some hamstring tightness but quite milder. otherwise negative.

8/29. T. 98.8° - Mild hamstring stiffness only.

8/30. T. 99° - Negative to exam.

OP Swab

Stool.

8/27	✓	✓ liquid stool.
8/28	✓	✓ formed.
8/29	✓	- pale mucus discarded.
8/30	✓	✓ formed.

JAN 7 1948

A. Stool Material -

Solids Present - 70 gms.
Liquid Present - 20 cc.
Saline Added - 330 cc. } 20% suspension

Blended at low speed for one minute.

Portion Refrozen = ± 150 cc. Box "B" 12-16-48
Stools Discarded

Remainder Allowed to settle in 100 cc centrifuge tubes overnight.

1-8-48. For intranasal inoculation = ± 40 cc.

Etherization: 140 cc. of stool susp. with 28.0 cc of ether; shaken
for 10 minutes; ice-box overnight.

1-9-48 - Centrifuged - horizontal - for 30 minutes.

Final Am't of Supernatant = 100 cc.

1/10/48 - Re-Etherized ^{1/10} Culture: $\times$ confluent central growth & spreader.
with 20.0 cc ether.

1/11/48. - Centrifuged 30' - (horizontal.) - Amount = 125 cc.

1-12-48. Culture: $\times$ central confluent growth (Smear shows thick granules & gram neg. rods.).

1-12-48. - Re-Etherized with 25.0 cc ether.

1-13-48 - Centrifuged.

Culture: $\times 5$ colonies (slender gram neg. rods)

1-14-48. Inoculated to monkeys $\pm$ penicillin + streptomycin.

7-20-48 Blended stool thawed and 4.0 cc removed for interference experiment
with Lansing Polio. Remainder refrozen "C"

7-22-48 ± 5.0 cc of etherized stool frozen in one 10 cc amp. frozen B-7-9

12-16-48 ± 5.0 cc etherized stools Discarded

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B. Pharyngeal Swab Material -

Swabs plus 0.6 c.c. Buffer #1 = 3.0 cc.
Buffer #2 0.6 cc.
3.6 cc.

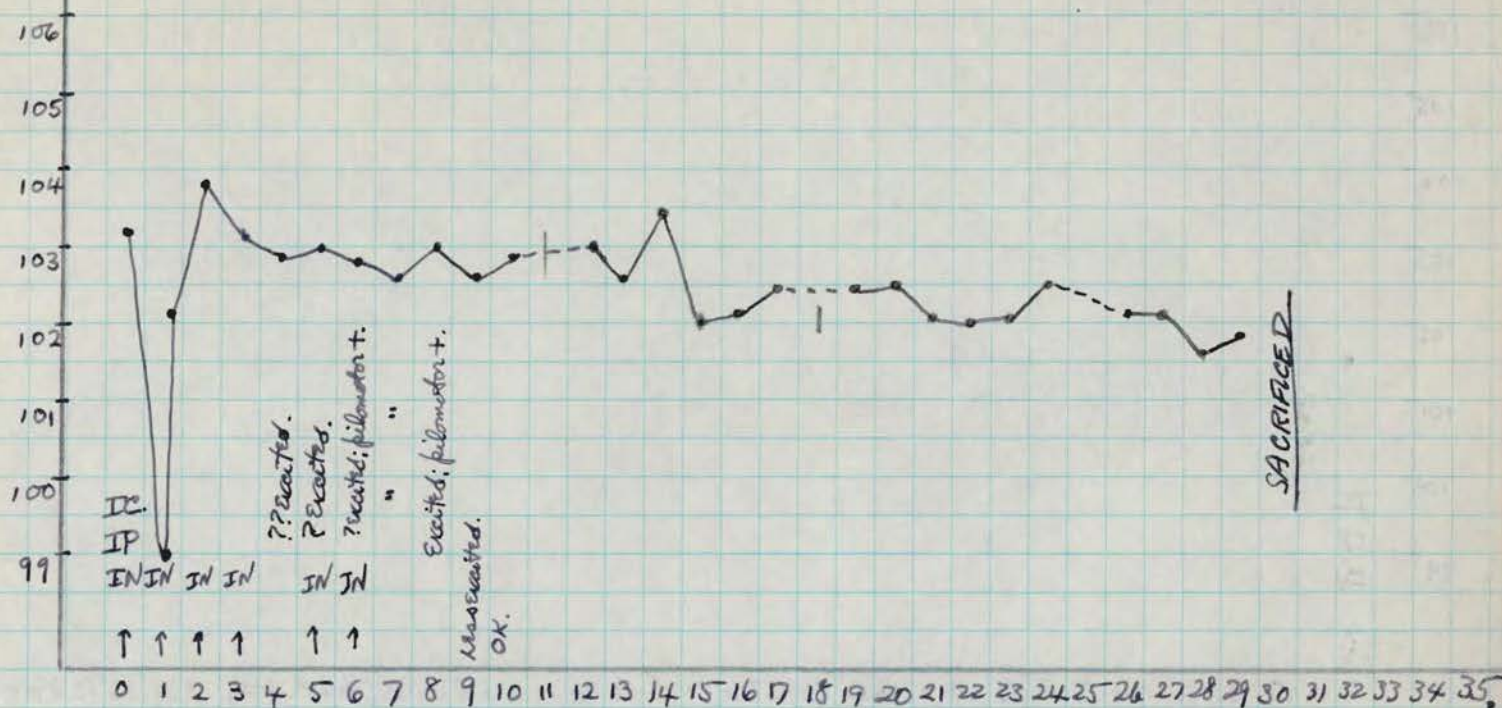
1.0 cc Ether Added, shaken 10'; refrigerated. -

1-8-48 - Centrifuged 15' on horizontal.
Culture: ✓✓✓

JAN 14 1948

Rhesus #93-

Cult: Treated pharyngeal swabs IC ✓ ✓
Treated stools. IP. X 5 colonies - 2 show neg. alexider react.
Untreated stools IN.



1-14-48. Inoculated 1.5 cc IC; 20 cc IP together with 100,000 u. of penicillin and 100 mgms. streptomycin; and 1 cc per nostril.

1-15-48. A.M. T=99, animal seems well and active, but on abdominal palpation screams out; given 200,000 u. of penicillin IP at 10⁰⁰ AM.

P.M. - T=102.1; seems perfectly OK.

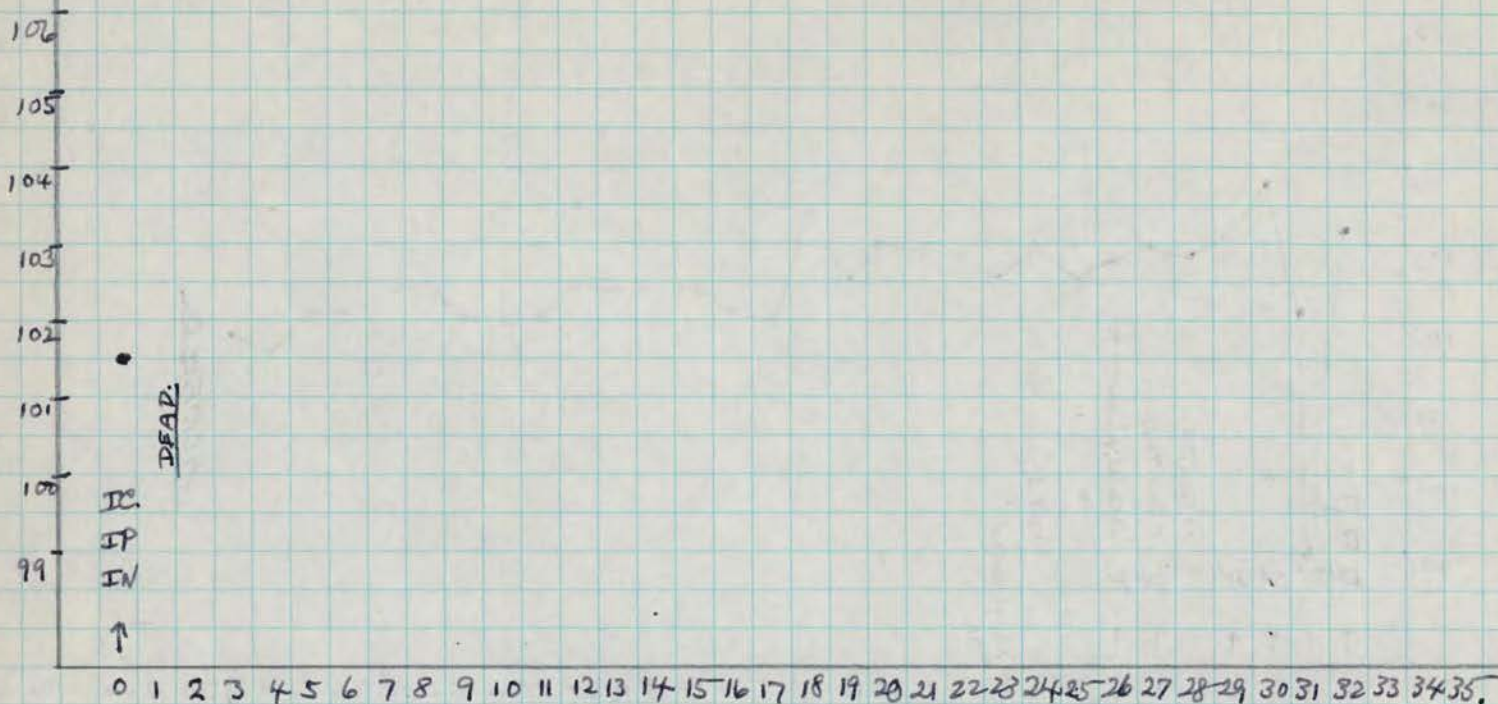
1-16-48. AM. - seems OK despite T=103⁸.

2-13-48. Sacrificed (chloroform - exsanguination) for histopathology. - Autopsy: NO TB
Tissues: olfactory bulbs; Thalamus; hypothalamus; midbrain; medulla; cord levels (2.A.)

Histology - Mr. Polio

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CYNOMOLGUS #92-



1-14-48 - Inoculated 1.5 cc IC; 20 cc IP together with 100,000 units of penicillin and 100 mgms of streptomycin; and 1.0 cc IN for hostil.

1-15-48 - Monitored at 8:30 A.M.; abdomen not distended; dead at 9:30 A.M.

Autopsy - Peritoneum: intense injection of visceral and parietal layers; ± 15 cc of turbid fluid present; fibrous bands in several areas easily separated; lungs; liver; spleen grossly OK.

Smear:- (Fluid had been kept in incubator overnight; ∴ much autolysis, however smear of 1-16-48 showed occ. sm. - short fat rods and a few degenerated polys.

1-16-48 - Peritoneal Fluid frozen with aa skimmed milk pH=7. (B-1-1)

12-16-48 Perit fluid Discarded

<u>M.K. #</u>	<u>Leucocytes</u>	<u>Thrombocytes</u>	<u>Cervical</u>	<u>Medulla</u>	<u>Milbrain</u>	<u>Talamus</u>	<u>Hypothal.</u>	<u>C.R. Bulb</u>	<u>Diencephalus</u>
Rh. 93.	0	0	0	0	0	0	0	0:0.	No pelio

POLIO. 1947. — MENINGEAL HISTOLOGY.