

Polio 1947

Cincinnati-

NAME

White girl - age 15 - Born 8/6/32 NUMBER

Patient of

ONSET - 8-27 - Well before. Fever, headache, dizziness
stiff back - Nausea + vomiting.

8-28 - Fever continued and unable to stand
because of back soreness.

Admitted to hospital - Temp. 102.5°
Slight stiffness of neck + pain + stiff in
lumbar region only positive signs
L.P. = 40 WBC; 10 Plys 30 monos. Pandy-neg.

BLOOD TAKEN

8-29 - Temp. 99.6 - completely asymptomatic
Neck and back - no stiffness or pain
No muscle weakness noted.
Appears well.

Throat swabs I - Stool I

8-30 - Temp. normal; asymptomatic
T. Swabs II - Stool II

8-31 - Temp. normal; asymptomatic
T. Swabs III - Stool III

9-1 - Temp up to 100.8° - but no
accompanying symptoms or
change in status

9-2 - Temp. down

9-10 - Blood taken

9/22 - Located at The Convalescent Home.

9/26/47 -

DEC 11 1947

A. Stools -

Solids Present	105 Gms.
Liquid Present	75 cc.
Dist. Water Added	975 cc.

Blended for one minute at low speed.

For Centrifugation	_____	± 300 cc.
For Refreezing	_____	± 200 cc. (old vaccine box)
Discarded	_____	± 500 cc.

Volume of First Supernatant	= 250 cc.
Ether Added	= 50 cc.
Volume of Sediment	= 50 cc. [For intranasal use]

12/12/47. - Final Amt of Treated Stool Suspension = 215 cc.
 Culture (Before Final Centrifugation) - X 20 Col. } 3 types of colonies
 (After Final Centrifugation) - X 10 Col. } mucoid = 9m. - rods.
 Small clear = 9m. - rods.
 Irreg. Large = 9m. + rods.

12/13/47 - Re-etherized - 43 cc - Ether Added.

Amt of Suspension = 180 cc.

Cult: X ± 12 uniform flat colonies - (long slender 9m. neg. rods & granules)

12/16/47. Re-etherized - 36.0 cc - Ether Added. -

Amount of Suspension = 146 cc.

Culture: v X 6 colonies. (long 9m. neg. rods)

12-16-48 Remainder of blended stools discarded

DEC 11 1947

B. Pharyngeal Swab Material -

Amit Fluid Expressed	—	2.1 cc.
Distilled Water Added	—	1.9 cc.
		<hr/>
Ether Added	=	1.5 cc.

12/12/47. - After Removal of Top Layer = 3.9 cc.

After Final Centrifugation = 3.7 cc.

Culture: ✓✓

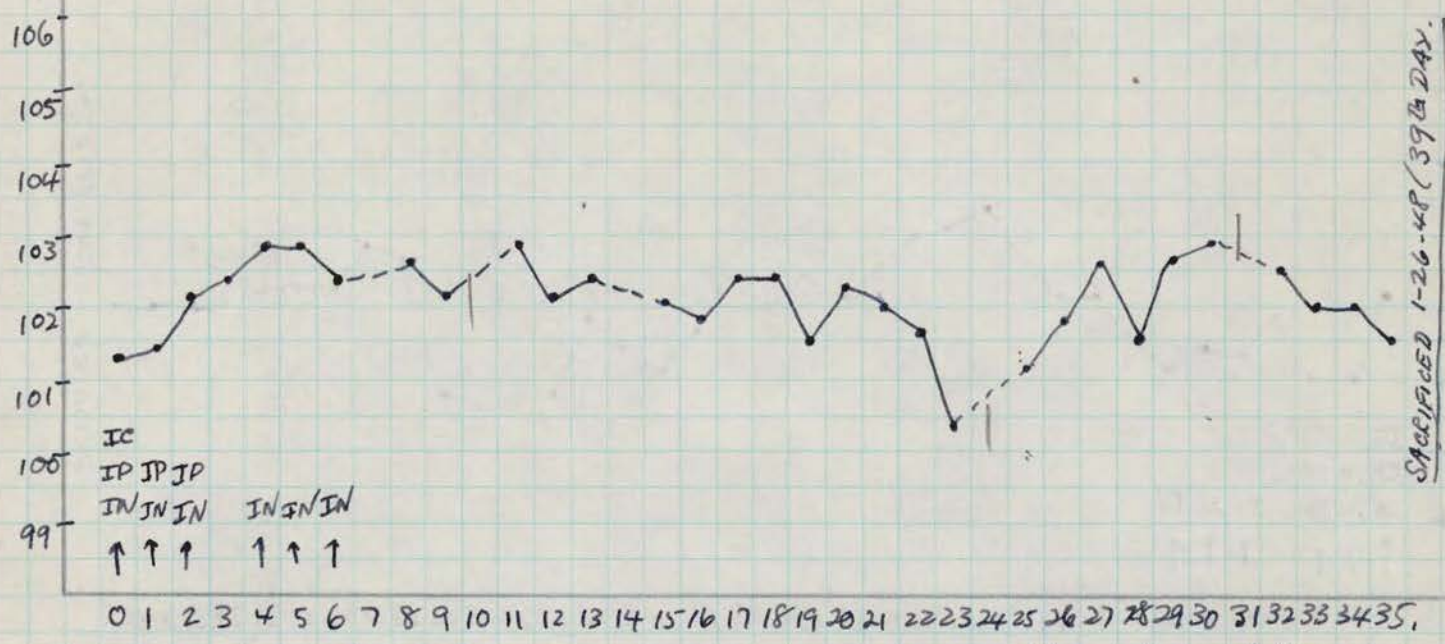
[12-13-47. Frozen (1) - until ready for inoculation.]

DEC 18 1947

Cult:

Treated pharyngeal swabs - IC. ✓✓
Treated stools — IP. ✓ *6 colonies (long 2m - rods.)
Untreated stools — IN.

Rhesus # 39-



12/18/47. Inoculated 1.5 cc IC; 20 cc IP; and 1 cc IN per nostril.
 12/20/47. Moderately severe diarrhea; Thin. - 12/21/47 - seems a bit better.
 1-10-48 - Diarrhea has continued since noted on 12/20/47; very watery today.
 1-26-48 - Sacrificed (chloroform - exsanguination) for histopathology.

Autopsy: no gross Tbc.

TISSUES FOR PATHOLOGY: olfactory bulbs (left one adherent to dura? inflammatory reaction); Thalamus; midbrain, {medulla; } 3 levels. } cord levels. (2A) } 23 levels.

(Reviewed 7/31/48 - with ABS)

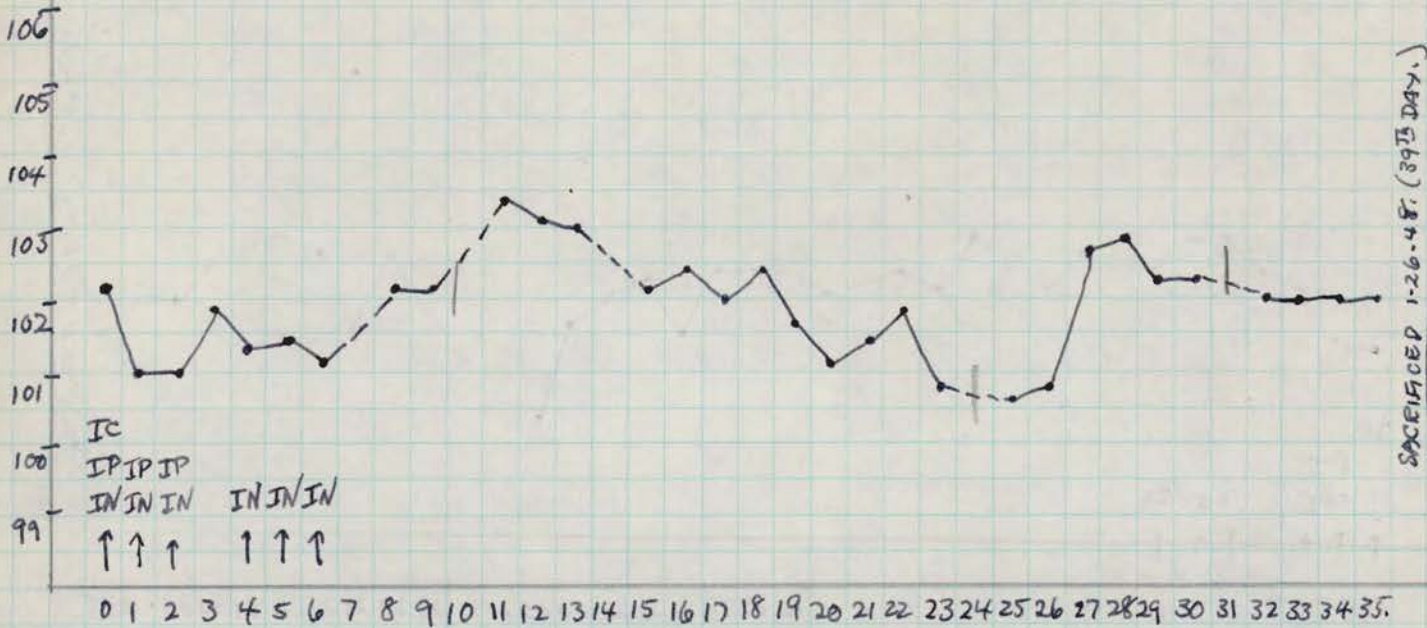
HISTOLOGY: Olf. Bulb. I. Extensive PV infiltration of meningeal layer and of a vessel of the mitral cell layer; but no nodules or evidences of neuronophagia found in mitral cell layer. Ent's bulb looks abnormal.

Olf. Bulb. II - Meningeal infiltration.

Other levels listed above neg.

DIAGNOSIS: NO POLIO.

Rhesus #40-



IC
 IP IP IP
 IN IN IN IN IN IN
 ↑ ↑ ↑ ↑ ↑ ↑

SACRIFICED 1-26-48. (39th DAY.)

12/18/47. Inoculated 1.5 cc IC; 20 cc IP; 1 cc per nostril.

12/29/47. Mod. severe diarrhea.

1-3-48 - Still having mod. severe diarrhea.

1-10-48 - Mod. severe diarrhea continues.

1-26-48 Sacrificed (chloroform - exsanguination) for histopathology.

Autopsy: no gross TBC.

TISSUES FOR PATHOLOGY: olfactory bulbs; Thalamus, midbrain, ^{4 levels} medulla, 26 cord levels. (Z-A.)

HISTOLOGY: (Revised 7/31/48 with ABS.)

Olf. Bulbs: Both show minimal meningeal infiltration. All other levels listed above neg.

DIAGNOSIS: NO POLIO