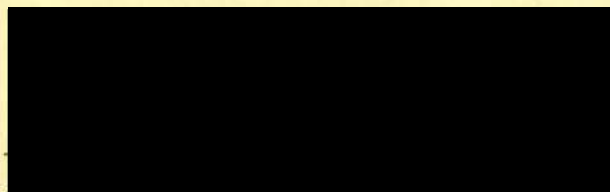


Polio 1947.



Cincinnati

- white boy, 6 $\frac{1}{2}$  yrs

ONSET - 8/21/47 - Fever, sore throat & vomited once

8/22 & 8/23 - Fever persisted to 103°; malaise, anorexia, sore throat; no diarrhea or constipation! - Dr. Selkirk could find no evidence of nuchal or spinal rigidity

8/24 to 8/25 - Back hurt

8/25 - Nuchal rigidity, Kernig pos.

Admitted to hospital - temp 102.6°

Sitting in tripod posture, Brudzinski pos.

No weakness - deep reflexes very active

CSF - 70 WBC - 75% polys.

Pandy ±

Brood taken at midnight

8/26 - still febrile; condition same

Swabs I - Stool I

8/27 - Temp. down; can kiss knees without difficulty or pain.

Swabs II - Stool II

8/28 - Appears well - Swabs III - Stool III

9-2 - Temp. normal since 8/30

DEC 9 1947

A. Stools.

Estimated Solids	_____	40 Gms.
Liquid Present	_____	200 cc.
Dist. Water Added	_____	<u>200 cc.</u>

Blended at low speed for 1 minute.

For Centrifugation	±	230 cc.
For Refreezing	±	180 cc (Box "C")

Volume of First Supernatant	=	200 c.c.
Ether Added	=	40 cc.

untreated sediment = 40 c.c. (for Postnasal use.)

12/10/47. Final Amt Treated Stool Suspension = 150 c.c.

Cult - (Before Final Centrifugation) =  $\times$  many mucoid hemolytic colonies + a spreader  
 (After Final Centrifugation) =  $\times$  { 2 large mucoid hemolytic colonies  $\rightarrow$  2m. towards square ended  
 6 small non-hemolytic colonies  $\rightarrow$  ditto on smear.  
 on smear  $\rightarrow$  large 2m. neg. rods.

12/11/47. Re-etherized - 30 cc. ether added

12/12/47. - Final Amt of Supernatant After Re-etherization = 60 cc. (on 100 cc tube broken in centrifuge 12-12-47, Schless)  
 Culture (Before Final Centrifugation) -  $\times$  10 Col. - square ended 2m + rods.  
 (After Final Centrifugation) - ✓✓✓

DEC 9 1947

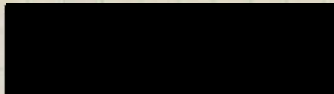
B. Pharyngeal Swab Material -

Amount Liquid Expressed	2.2 cc.
Distilled Water Added	1.8 cc.
	<hr/>
Ether Added	1.5 cc. <del>2.0 cc.</del>

12/10/47. -

After Removal Top layer	= 3.8 cc.
After Final Centrifugation	= 3.4 cc.
<u>Cult.</u> ✓✓✓	

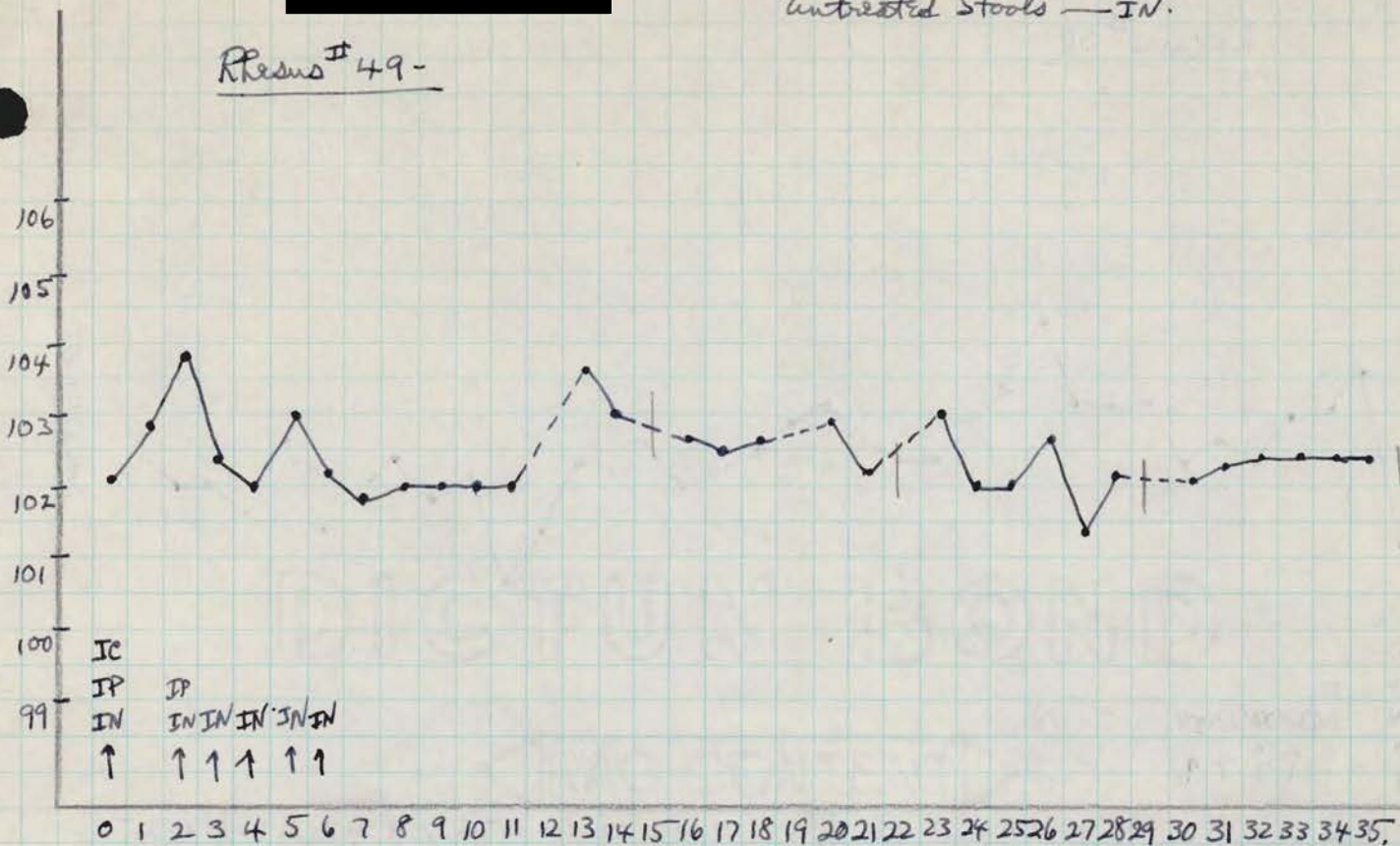
DEC 13 1947



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

Cult:  
✓✓✓  
✓✓✓

Rhesus # 49-



SACRIFICED.

12/13/47. Inoculated 1.5 cc IC; 20 cc IP; and 1 cc IN per nostril.

12/15/47. - Mod. diarrhea. - 12/15/47. - IP dose was 10.0 cc.

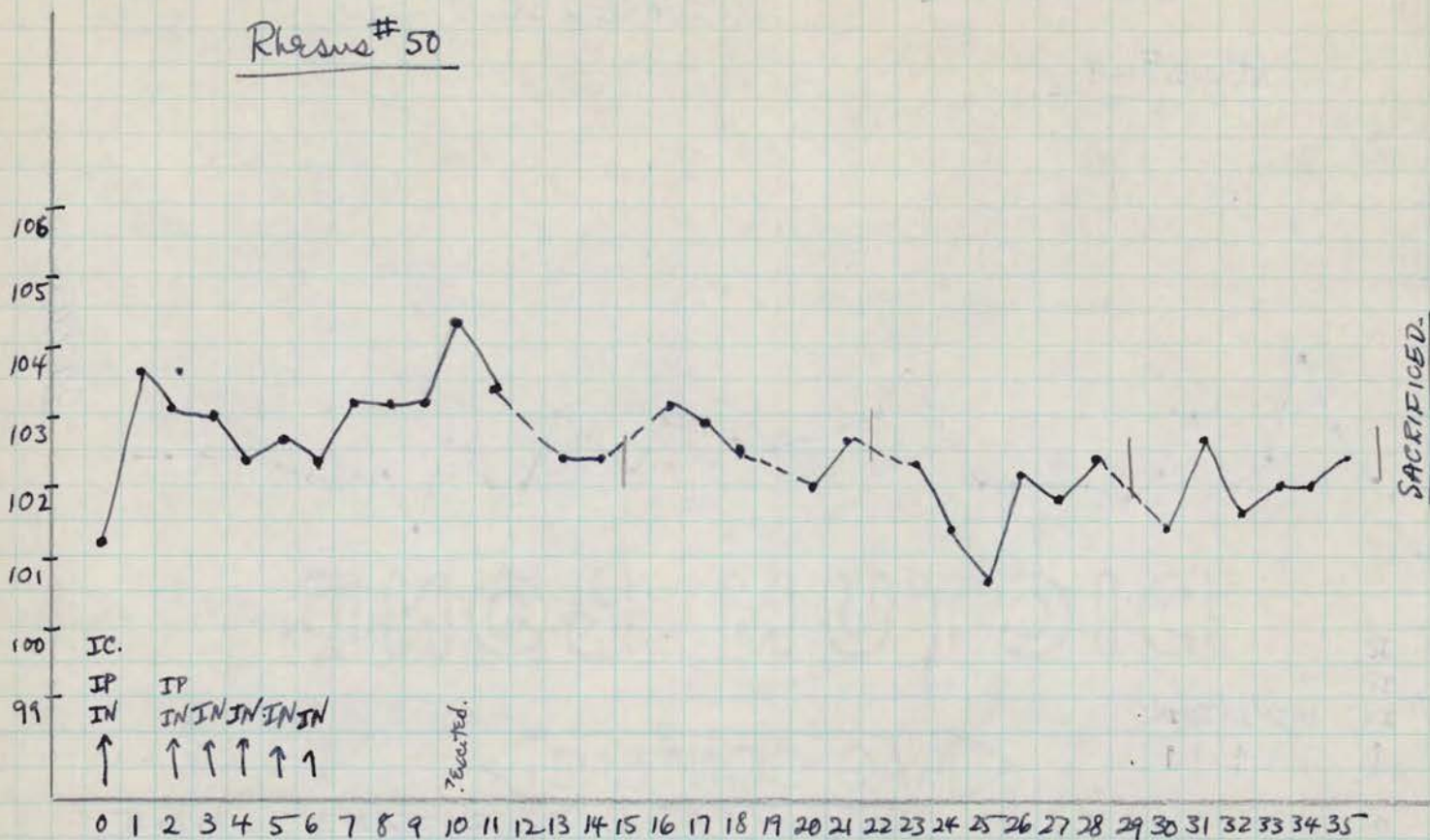
12/16/47. - Moderate diarrhea continues; given 2.0gms. Sod. sulfadiazine IP.

1-9-48 - Intermittent diarrhea has continued - stools watery today.

1-19-48 - Sacrificed (chloroform - ~~exsanguination~~) for histopathology; - no TBc found. - olfactory bulbs; midbrain; medulla; cord to ZA.

DEC 13 1947

Rhesus # 50



12/13/47. Inoculated 1.5 cc. IC; 20<sup>cc</sup> IP, and 1<sup>cc</sup> per nostril IN.

12/15/47. IP dose was 10<sup>cc</sup>.

12/30/47 - Mod. diarrhea.

1-9-48 - Diarrhea has continued; rather bad today.

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

no gross Tbc. -

olfactory bulbs; Thalamus; Hypothalamus; medulla; cord levels (ZA)

PONO. 1947.

MONKEY HISTOLOGY.

MK. #	Leptom.	Prosence- Cerebral	Medulla	Midbrain	Thalamus (caudate nucleus) needle tract	Optic Bulb	DIAGNOSIS
Rh. 49	0	0	0	0	0	Pt; meningeal reaction.	V. infra
Rh. 50	0	0	Pt;	Pt	0	Pt; Pt.	V. infra

Examination 7-31-48 by ABS. -

Rh. 49 -  
 Opt. Bulb. I: - areas of Pt just beneath surface } search in available sections reveals no infiltration  
 " II: - mild meningeal infiltration. } in mitral cell layer or other places where neurones  
 might be present.

(Pre-Chiasm) Region of Caudate Nucleus: - needle tract reaction.

Rh. 50. Opt. Bulbs: Definite PV infiltration but nothing more.

Midbrain: - 2 foci of extensive PV infiltration in periaqueductal grey matter.

Medulla: focus of marked PV infiltration with scattered glial cells in surrounding grey matter. -

Summary Diagnosis (ABS) "Possible Evidence for Polio - not enough to warrant a diagnosis of polio"