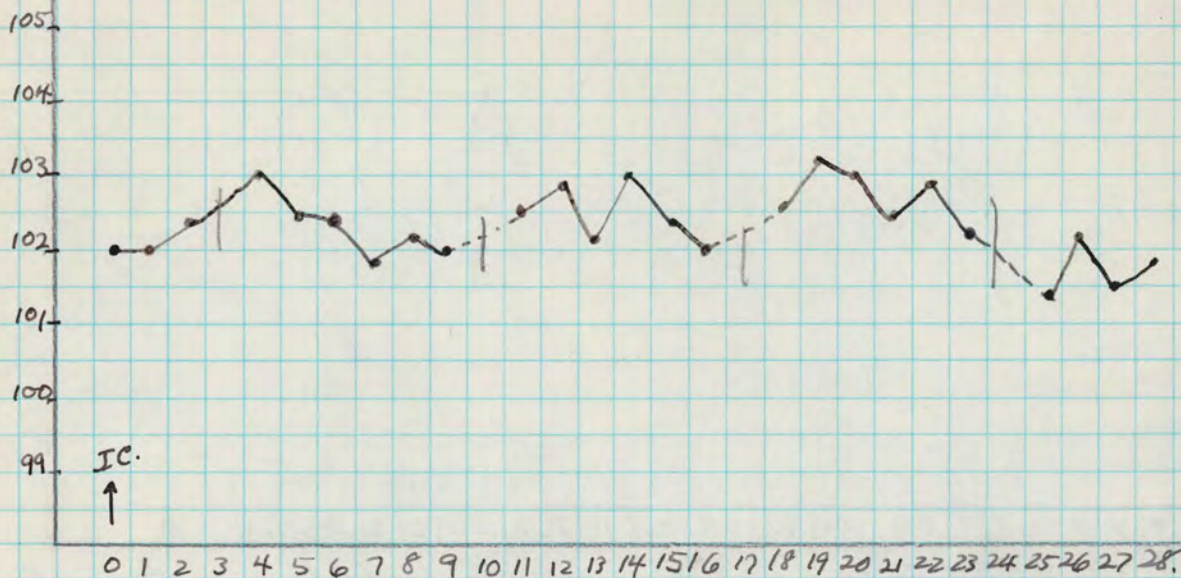


FIVE  
METER  
challenge

OCT 21 1948

- Heterologous Challenge of Polio Convalescent Monkeys -

Rh. 572-

Fine convalescentchallenged with  
HOFERKAMP virus.

OCT 21 1948

- Challenged by IC inx. of 0.5 cc of 1:200 HOFERKAMP polio virus (Gm II), estimated to be 100 PD<sub>50</sub>. (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.). -

CONDITION AT CHALLENGE: No demonstrable weakness or paralysis; altho monkey is occasionally awkward with right wrist which he tends to favor when climbing. - Moderate atrophy of both lower R > L.

(isolated since 1942)

11-20-48 (30<sup>th</sup> day) - No changes from challenge with HOFERKAMP polio virus; - challenged today with 100 PD<sub>50</sub> of TENNANT polio virus (isolated from Akron 1947) - See record.

OCT 21 1948

Heterologous Challenge of Polio Convalescent Monkeys-Rh. 573- FINE ConvalescentChallenged with  
HOFERKAMP virus

OCT 21 1948

- Challenged by IC inoc. of 0.5 cc of 1:200 Hoferkamp strain of polio virus - Estimated to be 100 PD<sub>50</sub>. (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.).

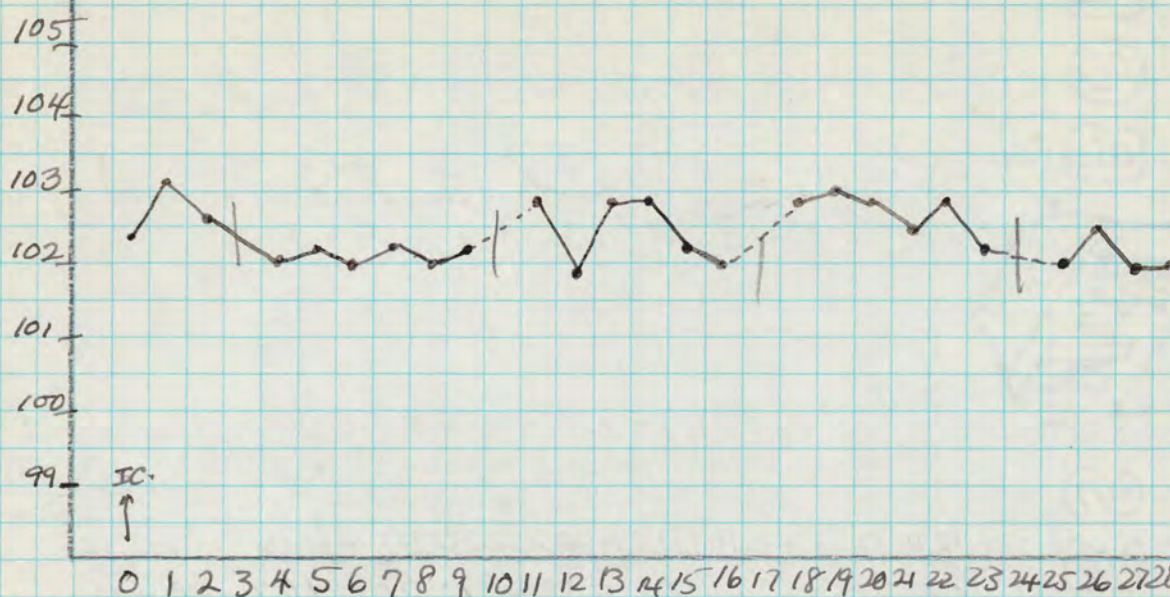
CONDITION AT CHALLENGE: Left lower shows eversion of foot in climbing or in running - but otherwise no weakness or paralyses are shown. There is moderate atrophy of both lowers, and to a lesser extent in both uppers L > R. (Monkey has developed a weeping rash in left groin resembling *Tinea cruris*.)

11-20-48 (38<sup>th</sup> day) - No change resulting from above challenge with the Hoferkamp virus (isolated Cincinnati 1947). Challenged today with 100 PD<sub>50</sub> of TENNANT virus (isolated Akron 1947), see record.

OCT 21 1948 Heterologous Challenge of Polio Convalescent Monkeys-

Rh. 577- FINE convalescent

Challenged with  
HOFERKAMP virus-



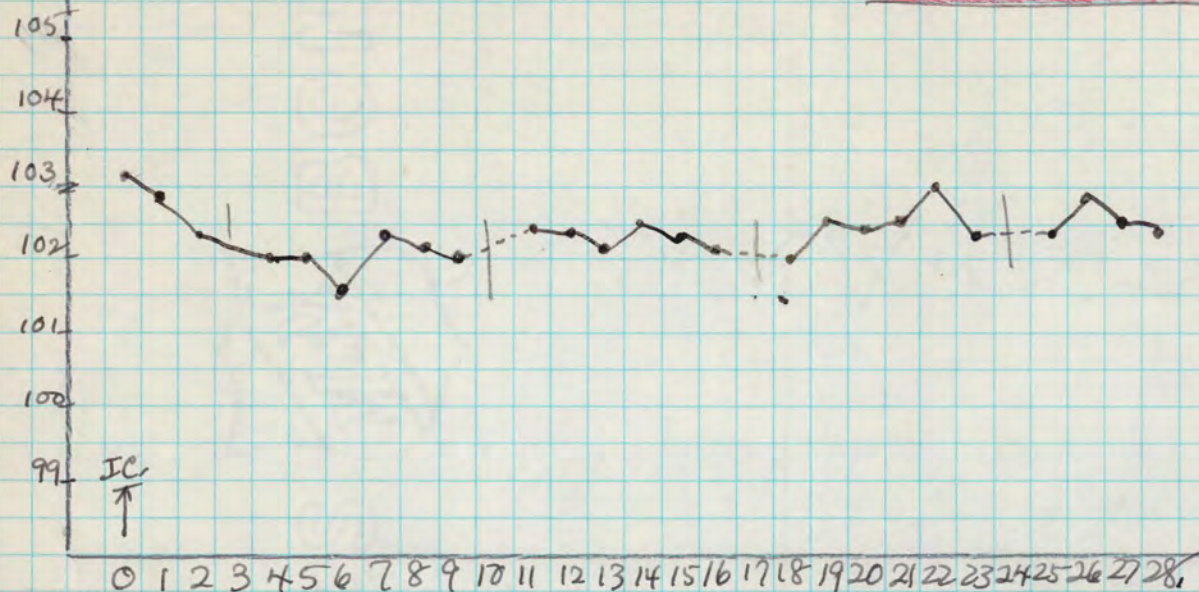
OCT 21 1948 - Challenged by IC inoc. of 0.5 cc of 1:200 HOFERKAMP polio virus (Gsm II), estimated to be 100 PD<sub>50</sub>. - (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.).

CONDITION AT CHALLENGE: ~~No demonstrable~~

There is partial paralysis of both towers, R > L, also monkey uses them considerably in climbing, and in running along on the floor; ~~both~~ lower moderately atrophic R > L. - Complete paralysis of left upper with considerable atrophy. - Right upper seems O.K.; The monkey's head, neck, back OK; - gets around with Rt. upper and both legs. Diarrhea is getting better slowly.

11-20-48 (30<sup>th</sup> day) - No change from above challenge with Hofekamp polio virus (isolated Cincinnati 1942). challenged today with 100 PD<sub>50</sub> of TENNANT polio virus (isolated Abcon 1942) - see record.

OCT 21 1948

Heterologous Challenge of Polio Convalescent Monkey.Rh. 578 - FINE ConvalescentChallenged with  
HOFERKAMP virus.

OCT 21 1948 - Challenged by IC inor. of 0.5 cc of 1:200 Hoferkamp polio virus (Genit), Estimated to be 100 PD<sub>50</sub>. (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.). -

CONDITION AT CHALLENGE: Both lowers = partial paralysis, L > R, with moderately severe atrophy in both. - There is weakness of right upper but none in left upper - also both uppers show mild atrophy. Animal gets around very well.

11-20-48 (30<sup>th</sup> day) - No change resulting from above challenge with The Hoferkamp polio virus (isolated Cincinnati 1947). - Challenged today with 100 PD<sub>50</sub> of TENNANT polio virus (isolated in Akron 1947) - per record.

OCT 21 1948

Heterologous Challenge of Polio Convalescent Monkeys -Ph. 583 - FINE convalescentChallenged with  
HOFERKAMP virus

OCT 21 1948 - Challenged by IC inst. of 0.5 cc of 1:200 HOFERKAMP polio virus (Gen II), estimated to be 100 PD<sub>50</sub>. - (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.).

CONDITION AT CHALLENGE: No focal weakness or paralysis, although monkey is readily exhausted in lowers when chased about. (The right index and third finger are bruised and he favors them in grasping. There is mild atrophy of both lowers L > R.)

11-2-48. T: 104.9. - Still no changes.

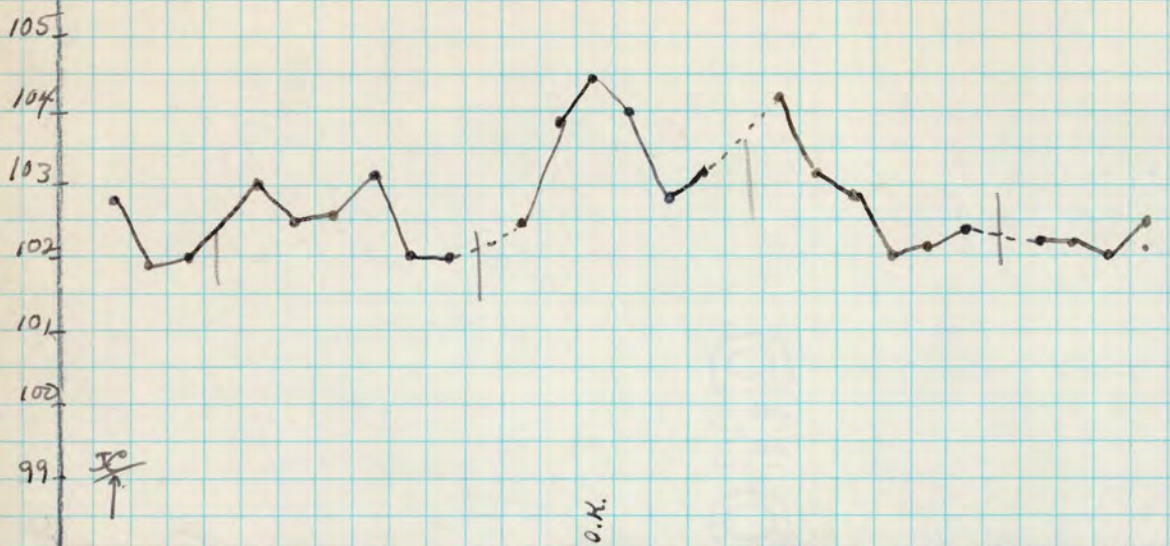
11-20-48 (30 Day) - No change resulting from above challenge with Hoferkamp polio virus (isolated Cincinnati 1947); challenged today with 100 PD<sub>50</sub> of TENNANT polio virus (isolated in Akron 1947). - see records.

OCT 21 1948

Heterologous challenge of Polio Convalescent Monkey

Rh. 600 - FINE convalescent

Challenged with HOFERKAMP virus.

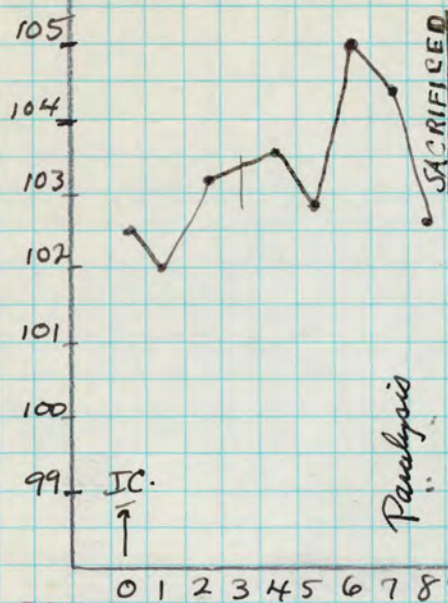


OCT 21 1948 Challenged by the IC virus of 0.5 cc of 1:200 HOFERKAMP polio virus (Gen. II) estimated to be 200 PD<sub>50</sub>. (Simultaneous controls are Rh. 1014 and Rh. 1015 g.v.)

CONDITION AT CHALLENGE: ~~Almost~~ Complete paralysis of both lower legs with very marked atrophy; both uppers are OK. except for mild bilateral atrophy.

11-20-48 (30<sup>th</sup> day). No change resulting from challenge with Hoferkamp strain of polio virus (isolated in Cincinnati 1947). Challenged with the TENNANT polio virus today (isolated in Akron 1947); see record.

OCT 21 1948

Control Monkeys - HOFERKAMP Virus - (Heterologous Challenge Experiment).Rh. 1014 - Control for FIVE Cerebral Rh. 572, 573, 577, 578, 583, 600.

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.

OCT 21 1948

Inoc. IC with 0.5 cc of a 1:200 dilution HOFERKAMP strain polio virus (Gen II) estimated to be 100 PD<sub>50</sub>. (Rh. 1015 overlaid also a control.

10-26-48 T=102.8° excited; clumsy

10-27-48 T=105.2° " "

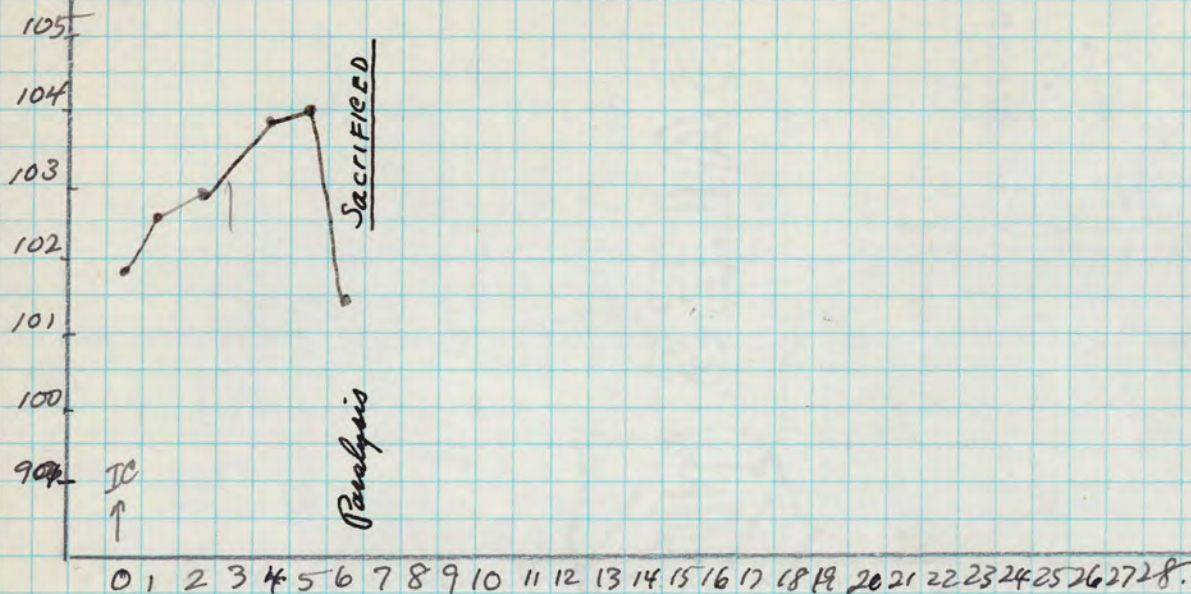
10-28-48 T=104.4° Partial Paralysis of right upper. Weakness of left upper.

10-29-48 T=102.6° Complete Paralysis of right upper, Part. Par. of left upper.

SACRIFICED (chloroform - exsanguination)AUTOPSY: No gross ltrTISSUE FOR SECTION 5 lumbar and Cervical cord (2.A.)HISTOLOGY: Above levels show extensive acute neurophagia; with mild PV cuffing.DIAGNOSIS: POLIO (Acute)

OCT 21 1948 Control Monkeys - HOFERKAMP virus (Heterologous Challenge Experiment)

Rh. 1015 - Control for FINE convalescents Rh. 572, 573, 577, 578, 583, 600.



OCT 21 1948 Inoc. IC with 0.5 cc of 1:200 Hoferkamp polio virus (Gen II), estimated to be 100 P.D.<sub>50</sub> - (Rh. 1014 overlaid also a control.)

10-26-48 excited, clumsy, easily exhausted

10-27-48 Complete Paralysis of both upper and lt. lower; Post. Par. of left lower. Weakness of neck back and voice

SACRIFICED (chloroform - exsanguination)

AUTOPSY: No gross th.

TISSUE FOR SECTION 5 Cervical and 3 lumbar cord segments (Z.A.)

HISTOLOGY: Widespread acute early neuronophagia; with mod. PV. cuffing present.

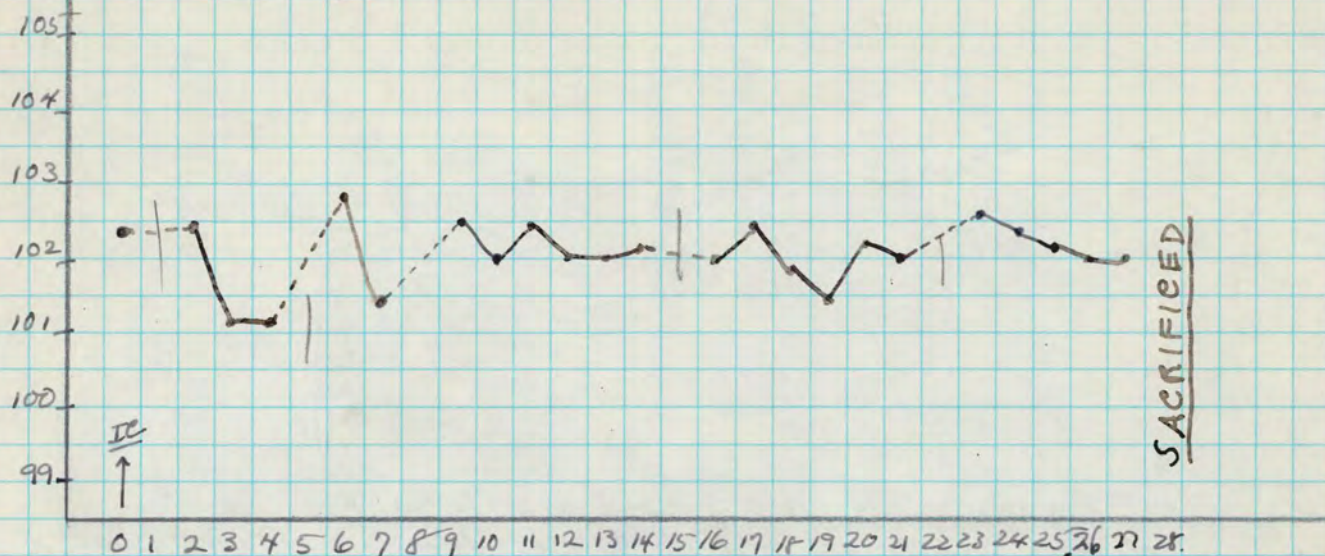
DIAGNOSIS: POLIO (acute)

NOV 20 1948 Heterologous Challenge of Polio Convalescent Monkeys -  
INTER-DEBAN

Ph. # 572 - FINE convalescent  
 unaffected by challenge  
 with 100 PD<sub>50</sub> of HÖFERKAMP virus  
CINCINNATI

Challenged  
 with

TENNANT polio  
 virus  
AKRON



NOV 20 1948 - Challenged IC with 0.5 cc of 1:50 Tennant polio virus (Gen. 8), estimated 100 PD<sub>50</sub>. (Controls are Ph. 976X and 977X - g.v.).

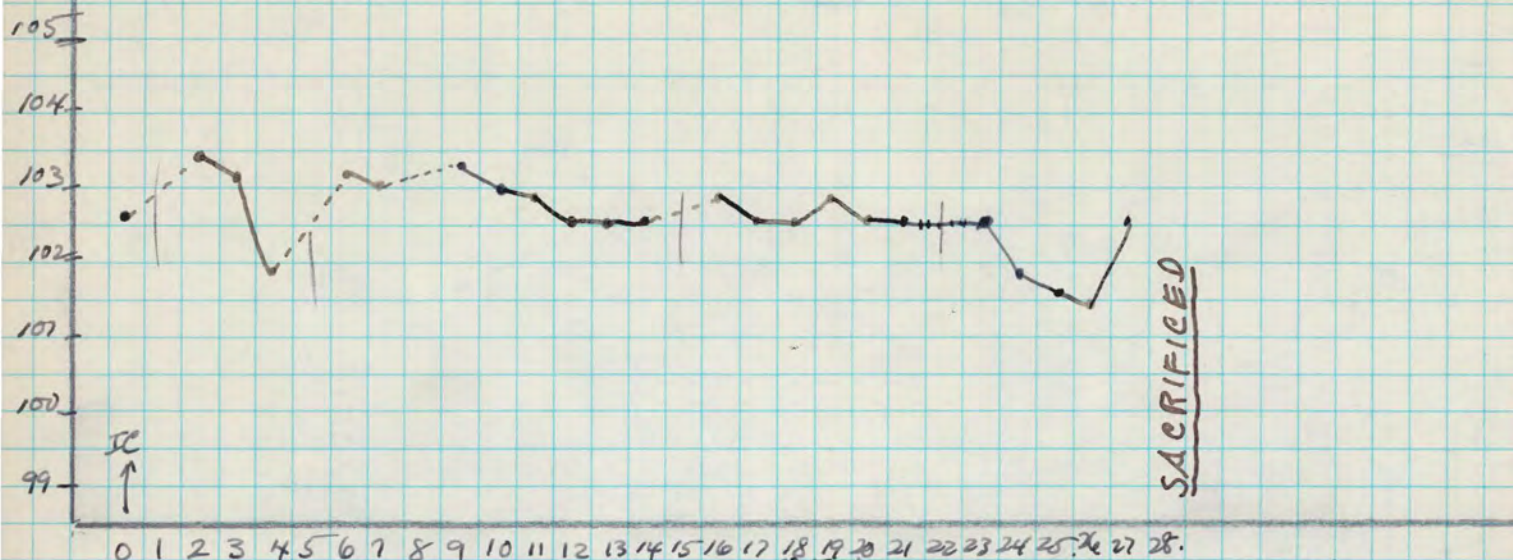
CONDITION AT CHALLENGE: No demonstrable weakness or paralysis - act as the right wrist is readily exhausted as in quick climbing. - There is moderately extensive atrophy of both lower R > L.

12-18-48 Observation Terminated - SACRIFICED - Discarded

NOV 20 1948 - Heterologous Challenge of Polio Convalescent Monkey  
- INTER URBAN -

Rh. #573 - FINE convalescent  
 unaffected by challenge  
 with 100 P<sub>50</sub> HOPKINS virus.

Challenged with TENNANT polio virus.  
AKRON



NOV 20 1948 - Challenged by IC inoc. of <sup>(0.5 cc)</sup> TENNANT polio virus (Contt), estimated to be 100 P<sub>50</sub>. (Controls are Rh. 976X; 977X - f.v.).

CONDITION AT CHALLENGE: Left foot evens when monkey climbs or runs along on floor, but no other signs of weakness or paralysis. - Both lowers show moderate atrophy; and there is mild atrophy in both uppers. -

12-18-48 Observation Terminated  
SACRIFICED - Discarded

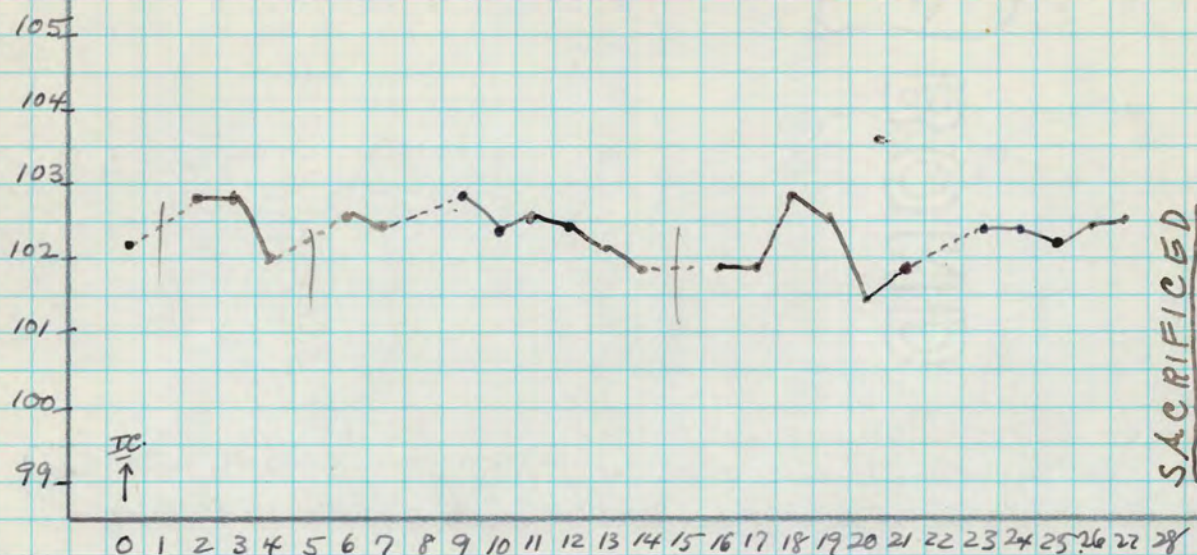
NOV 20 1948 - Heterologous Challenge of Polio Convalescent Monkeys.

INTER-URBAN

Rh. # 577 - FINE convalescent CINCINNATI  
 - unaffected by challenge  
 with 100 PD<sub>50</sub> HOPKAMP virus.

Challenged  
 with

TENNANT polio  
AKRON virus.



NOV 20 1948 - Challenged by IC virus of 0.5 cc of 1:50 TENNANT polio virus (cont.).  
 representing 100 PD<sub>50</sub>. (Simultaneous controls are Rh. 976X and Rh. 977X. - g.v.).

CONDITION AT CHALLENGE: Partial paralysis of both lowers R>L, with moderate degree  
 of atrophy R>L. There is compl. paralysis of left upper with considerable atrophy.  
 Rt. uppers is O.K.; head, neck and back O.K. - Monkey is very active climbs  
 with rt. upper and use both lowers considerably in climbing.

12-18-48 Observation Terminated  
SACRIFICED - Discarded

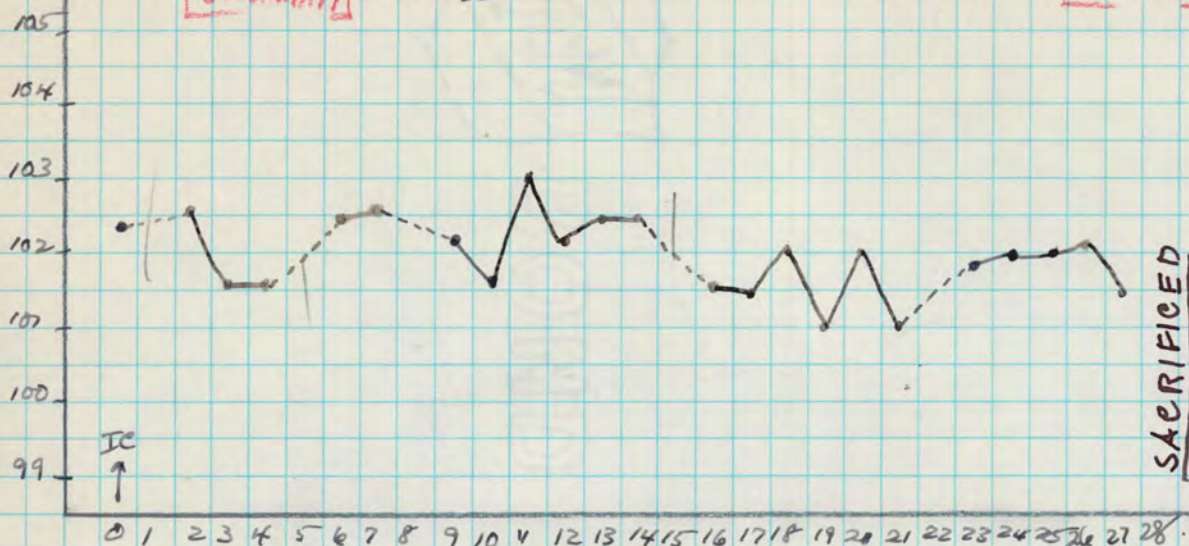
NOV 20 1948

# Heterologous Challenge of Polio Convalescent Monkeys

INTERURBAN

Rh #578 - FINE convalescent  
unaffected by challenge  
with 100 PD<sub>50</sub> HOTERKAMP virus.  
CINCINNATI

Challenged with TENNANT strain  
AKRON polio



NOV 20 1948 - Challenged by IC mix. of 0.5 cc of 1:50 TENNANT polio virus (inst),  
representing 100 PD<sub>50</sub>. (Simultaneous controls are Rh. 976X and 977X. ff. 11).

CONDITION AT CHALLENGE: There is partial paralysis of both lowers, with  
L > R, and with moderately severe atrophy of both lowers. There  
is weakness of rt. upper, but left upper is OK. - Mild atrophy of  
both uppers. Neck, back OK. Monkey climbs and runs quite well.

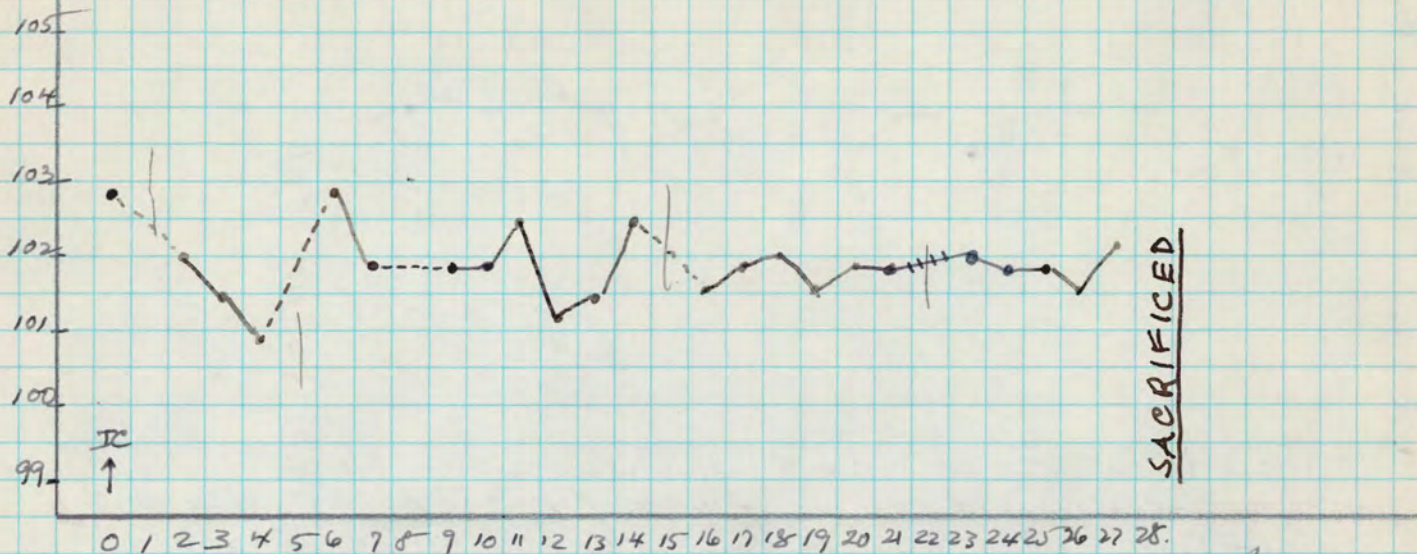
12-18-48 Observation Terminated  
SACRIFICED Discarded

NOV 20 1948 - Heterologous Challenge of Polio Convalescent Monkeys  
INTERURBAN

Pk. #583 - FINE convalescent  
 unaffected by challenge  
 (CINCINNATI) with 100 PD<sub>50</sub> of HOPEKAMP virus.

Challenged  
 with

TENNANT polio  
 (AKRON) virus.



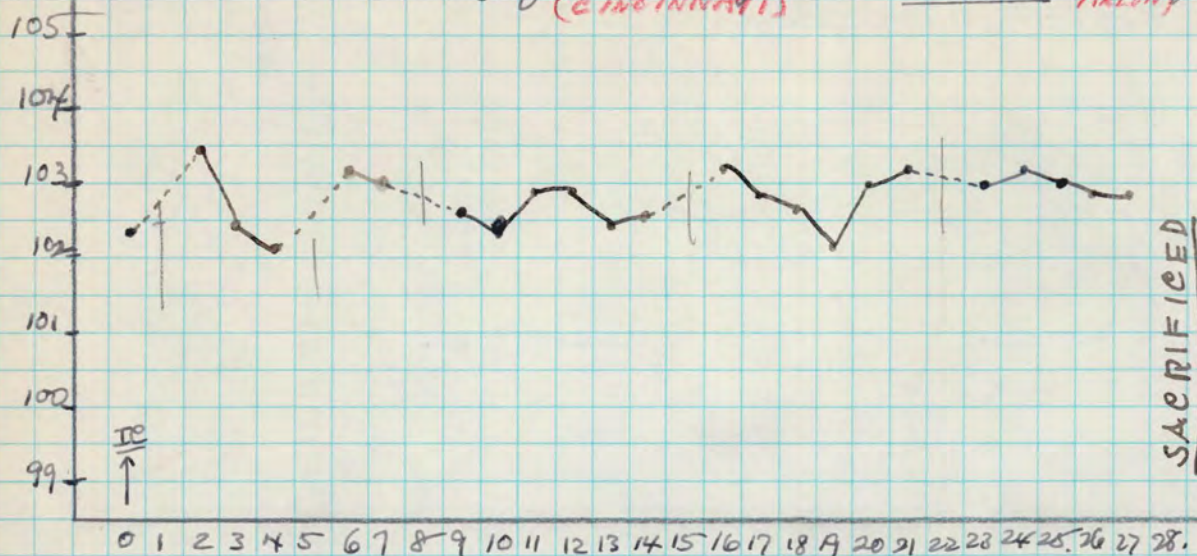
NOV 20 1948 - Challenged by IC inoc. of 0.5 cc of 1:50 TENNANT polio virus  
 (Cont'd) representing 100 PD<sub>50</sub>. (Simultaneous controls Pk. 976X and 977X.)

CONDITION AT CHALLENGE: Loweres show no weakness or paralysis - rather loweres  
 become exhausted quickly. There is mild atrophy of both loweres L > R.

12-18-48 Observation Terminated  
SACRIFICED Discarded

NOV 20 1948 - Heterologous Challenge of Polio Convalescent Monkeys -  
INTER-URBAN

Rh. # 600 - FINE convalescent - unaffected by challenge with 100 P<sub>50</sub> of HOFERKAMP polio- (CINCINNATI) - Challenged with TENNANT ARIZONA polio virus.



NOV 20 1948 - Challenged by IC vir. of 0.5 cc of 1:50 TENNANT polio virus, Gen II (Est. 100 P<sub>50</sub>); Simultaneous controls Rh. 976X and 977X g.v.).

CONDITION AT CHALLENGE: <sup>Both</sup> Lovers show complete paralysis with extensive atrophy. - Uppers show mild atrophy only. - Neck OK.

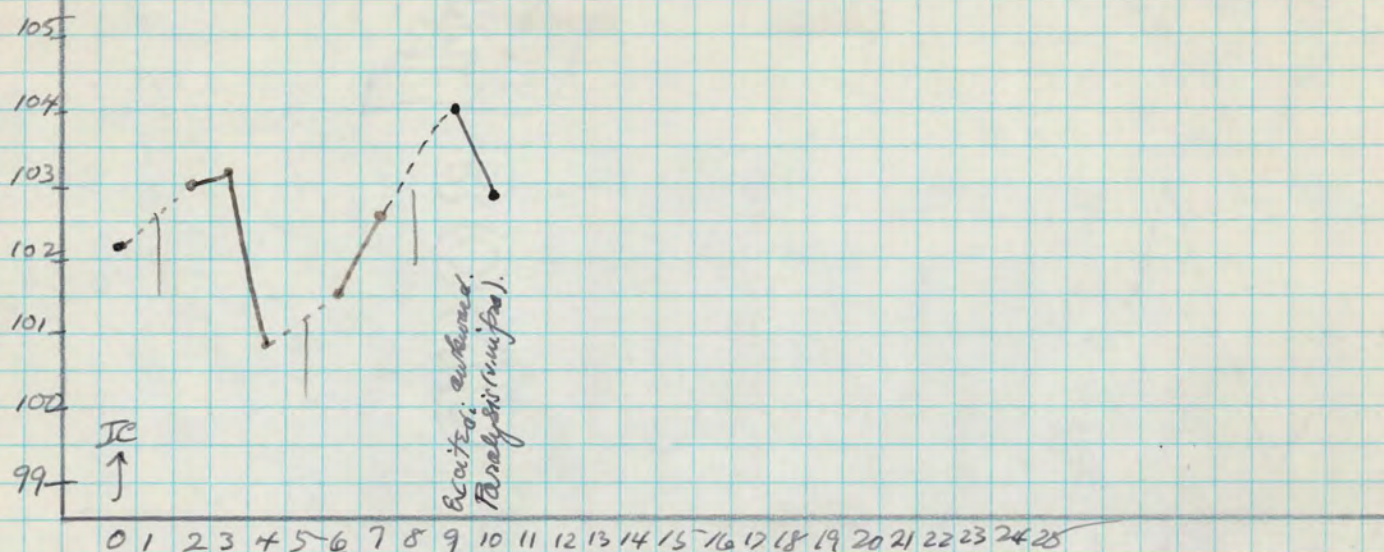
12-18-48 Observation Terminated  
SACRIFICED - Discarded

NOV 20 1948

Control Monkeys - TENNANT virus.

Heterologous Challenge Experiment (INTERURBAN)

Rh. 976X - (formerly used in Berlin Test g.v.) - Control for Rh. 572, 573, 577, 578, 583, 600.



NOV 20 1948 Inoc Tc with 0.5 cc of 1:50 Tennant polio virus (Cont), estimated to be 100 PD<sub>50</sub>. - Rh. 977X overlaid also a similar control.

11-24-48 Thin. mild diarrhea

11-27-48 very thin, diarrhea.

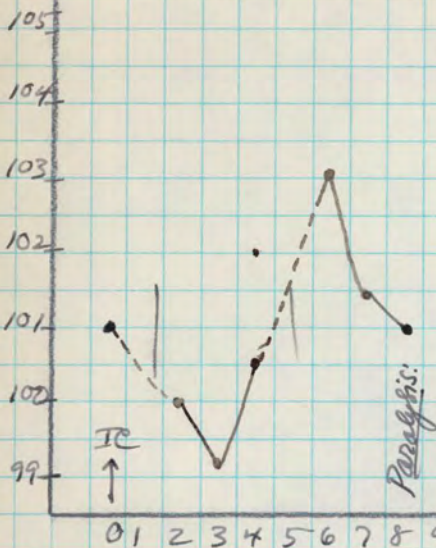
(8<sup>th</sup> day) 11-28-48 - Thin; mod. diarrhea; alert;

(9<sup>th</sup> day) 11-29-48 - Excited; awkward.

(10<sup>th</sup> day) 11-30-48 - Partial paralysis all 4 extremities. -  
Sacrificed - Discarded.

NOV 20 1948 Control Monkeys - TENNANT - Heterologous Challenges  
VIRES - Experiment  
INTERURBAN

Rh. 977X (used previously in (control test for)). Control for Rh. 572, 573, 577, 578, 583, 600.



NOV 20 1948 - Inoc. IC with 0.5 cc of 1:50 TENNANT poli virus (Centi), est. to be 100 PD<sub>50</sub>. (Rh. 976 X control also a similar control.)

(8<sup>th</sup> day) 11-24-48 thin, mild diarrhea  
 11-28-48 - Quadriplegia; aphonia. - Sacrificed; discarded.