

HE TERA

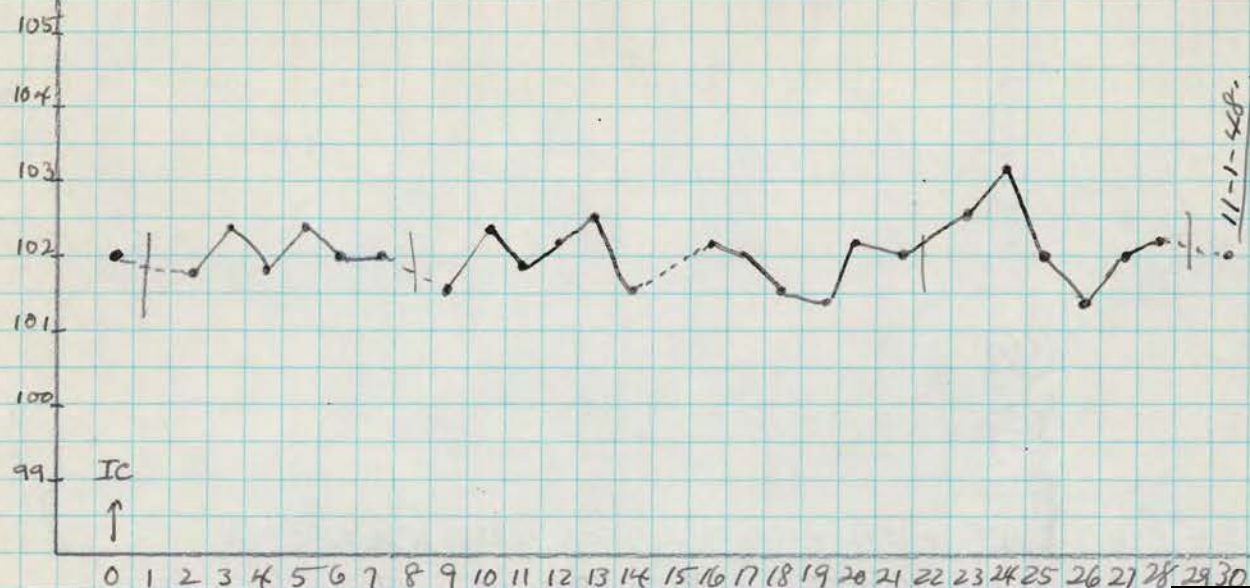
OCT 2 1948 Heterologous Challenge of Polio Convalescent Monkey -

Ph. 388 -

convalescent

challenged with

virus.



OCT 2 1948 - Challenged by the i.c. inoc. of 0.5 cc of 1:100 strain of polio virus (Gen II) - Simultaneous controls Ph. 956 (overleaf).

CLINICAL CONDITION WHEN CHALLENGED: no distinguishable weakness; paralysis, or atrophy. - This monkey has always been excitable with tendency to palmo motor response when disturbed.

11-2-48. This animal resisted homologous challenge and now has resisted 100 PD₅₀ of the heterologous virus. - Challenged today with 100 PD₅₀ of the heterologous virus. (see record); simultaneous controls Ph. 1090.

OCT 2 1948

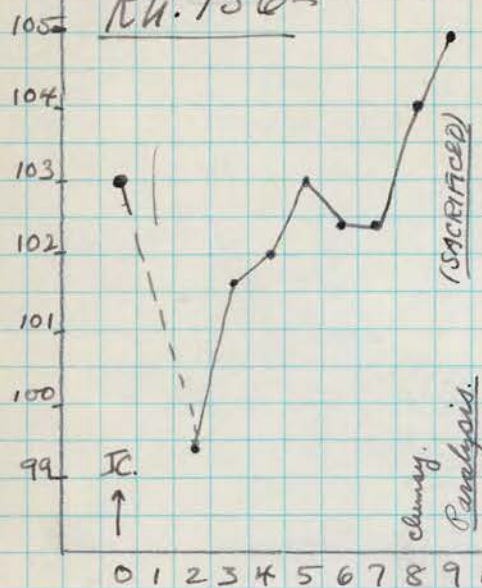
Control Monkey -

virus

used for The

Heterologous Challenge of Ph. 388 (convalescent) oval of.

Ph. 956-



OCT 2 1948

- inoc. with 0.5 cc of 1:100 strain folio; Gen II.

10-11-48 T=104.9. Complete Paralysis of both lowers. Partial Paralysis of both uppers. Weakness of back; cranial nerves intact

SACRIFICED - (chloroform - exsanguination)

AUTOPSY: - - No gross etc.

TISSUE FOR SECTION: - - segments of lumbar, of thoracic
and of cervical cord; sections of medulla

11-19-48 tissues discarded

NOV 2 1948 Heterologous Challenge of Polio Convalescent Monkeys

Ph. 388

CONVALESCENT

(also resisted strain)

challenged with VIRUS.



NOV 2 1948 - Challenged by IC virus of 0.5 cc of 1:25 virus (Gen. II), estimated to be 100 PD₅₀. (Simultaneous control is Ph. 1090 (over)).

CLINICAL CONDITION WHEN CHALLENGED: no distinguishable weakness; paralysis or atrophy; animal has always been aggressive and excitable with tendency to pilomotor response.

DEC 6 1948 Heterologous Challenge with MV virus

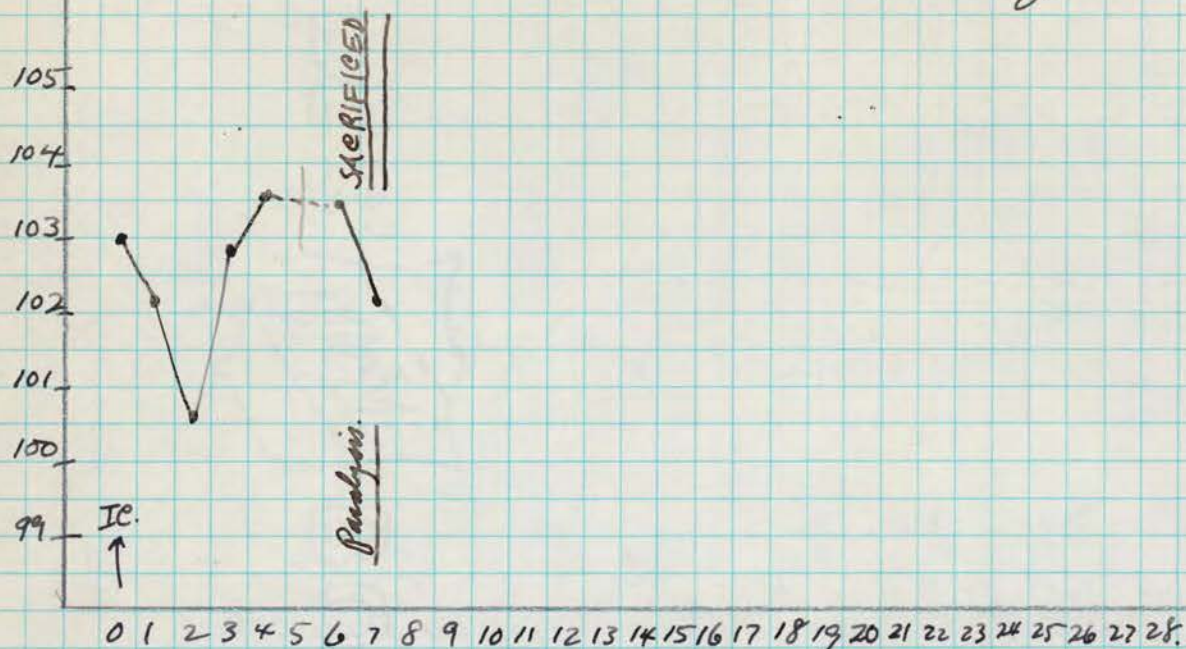
36 days following challenge with virus, which was resisted by Ph. # 388, the monkey was today inc. with 1.0 cc of 1:50 MV virus IC

DAY	TEMP.	EMP.
0	102.0	✓
1	103.2	✓
2	102.2	✓
3	103.2	✓
4	105.2	✓
5	104.2	✓
6	104.5	✓ mild tremors of head.
7	102.9	✓ Partial paralysis of both lower and rt. upper.
8	100.8	✓ Complete par. rt. lower; almost compl. par. left lower; weakness left upper.
9	101.0	✓ Lies prostrate but can lift head, moves tail; wrists still have some power.
10	101.2	✓ Same plus weakness of left lower facial! (N.B. when first paralyzed with Walter strain this monkey had rt lower facial paralysis.)
11	101.2	✓ No Change
12	101.2	✓ " " "
13	99.6	✓ Almost prostrate; moves tail, can partially raise head off cage floor.
14	98.8	✓ No Change
15	101	✓ " " "
16	101.4	✓ Same. - (looks as if he would survive) - 12/22/48 } Observation terminated. Sacrificed - Discarded.

NOV 2 1948

Control - [redacted] virus ($\pm 100 \text{ PD}_{50}$)

Rh. 1090 - Control for Heterologous Challenge of Rh. 388 (overleaf).



NOV 2 1948 Inoc. I.C. with 0.5 cc of 1:25 [redacted] polio virus (Ant II), estimated to be 100 PD_{50} , simultaneously with Rh. 388 (overleaf).

11-9-48 T = 102.3. Partial Paralysis of both lowers; Weakness of left upper and voice and back.

SACRIFICED (chloroform - exsanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION lumbar and cervical cord (Z.A.)

11-19-48 tissues discarded

OCT 21 1948 Heterologous Challenge of Polio Convalescent Monkeys



OCT 21 1948 Challenged ~~with~~ IC with 0.5 cc of 1:50 [redacted] polio virus (Gen. II), estimated to be 100 PD₅₀. - (Simultaneous controls are Rh. 1011 and Rh. 1012 g.v.).

CONDITION AT CHALLENGE: Almost complete paralysis of both forelegs, with free elevation and depression of feet maintained. - severe atrophy of both forelegs. - Gets around very well with both uppers - which show mild atrophy R > L. - Head, neck and upper back O.K.

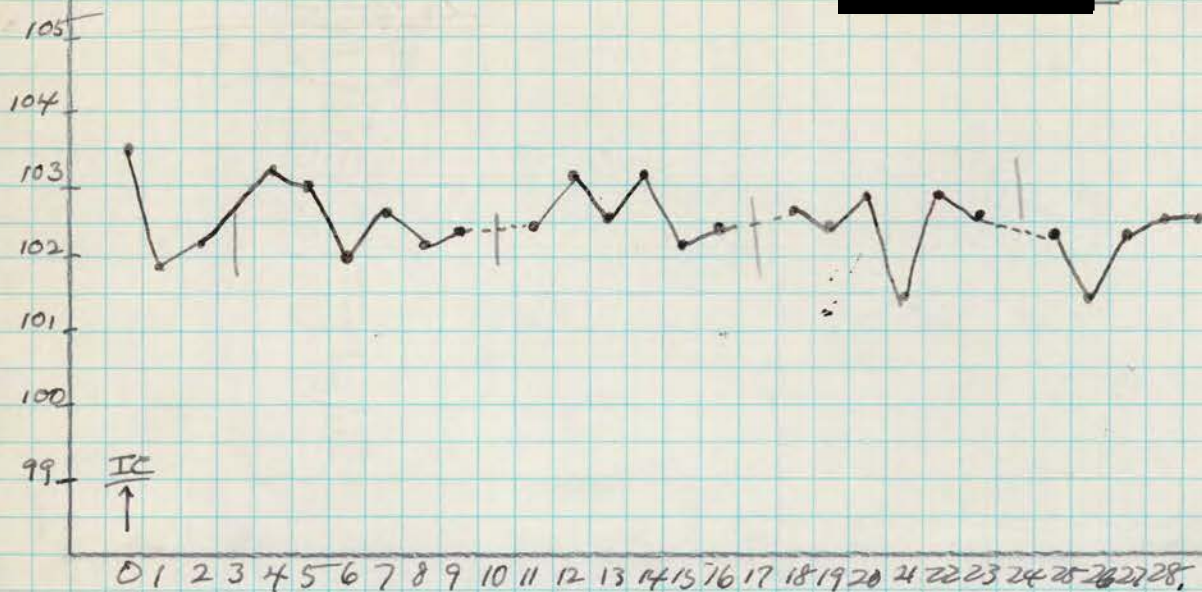
11-20-48 - (30th Day) - Unaffected by heterologous challenge with Tennant polio virus above (isolated Akron 1947) - Challenged today with the [redacted] strain (polio (Cincinnati 1947), using 100 PD₅₀. - see record.

OCT 21 1948

Heterologous Challenge of Polio Convalescent Monkeys

Rh. 537 -

Convalescent

Challenged with
virus.

OCT 21 1948

- Challenged by IC. inoc. of 0.5 cc of 1:50 [redacted] strain of polio virus, estimated to be 100 PD₅₀. - (Simultaneous control monkeys are Rh. 1011 and Rh. 1012: q.v.).

CONDITION AT CHALLENGE: - Left lower shows partial paralysis - and moderate atrophy; rt. lower and both uppers seem entirely normal now, and no significant atrophy.

(30 Days)

11-20-48. Unaffected by above challenge with [redacted] virus (Abram 1947).
challenged today with 100 PD₅₀ of [redacted] polio virus. (Cucinadi 1947). (See record)

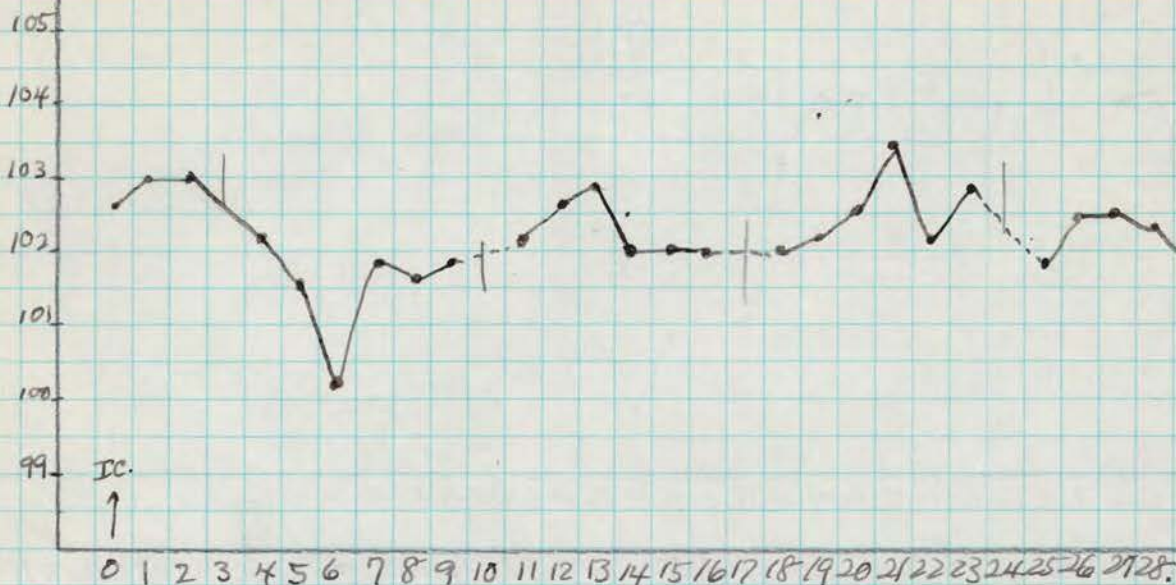
OCT 21 1948 - Heterologous Challenge of Polio Convalescent Monkeys:

Rh. 545-

convalescent

challenged with

virus.



OCT 21 1948 - Challenged IC with 0.5 cc of 11:50 [redacted] polio virus (Gen. II), estimated to be 100 PD₅₀. (Simultaneous controls are Rh. 1011 and Rh. 1012 g.v.).

CONDITION AT CHALLENGE: Right upper = almost complete paralysis - with preservation of feeble wrist motion - and severe atrophy. - Left upper - seems OK. Right lower = almost complete paralysis except for feeble foot movements when monkey climbs. - Left lower = complete paralysis. - Both lowers show mod. severe atrophy. Neck, head, back OK.

11-20-48 (30 Days) - Unaffected by above challenge with [redacted] polio virus (Akron 1947). Challenged today with 100 PD₅₀ of [redacted] polio virus (Cincinnati 1947). (see record)

OCT 21 1948

Heterologous challenge of Polio Convalescent Monkeys

Rh. 546 -

Convalescent

Challenged with
viral.

OCT 21 1948 - Challenged by IC dose of 0.5 cc of 1:50 [redacted] polio virus (Gen II), estimated to be 100 PD₅₀. (Simultaneous controls: Rh. 1011 and Rh. 1012 g.v.).

CONDITION AT CHALLENGE: No distinguishable weakness or paralysis. There is very mild atrophy of both lower legs. -- Monkey has no diarrhea but has been getting thinner recently.

11-9-48 a.m. Temp: 98°. This monkey has been getting progressively thinner but has not shown focal weakness at any time.

Died @ 2.30 p.m. Autopsy: Extensive tuberculosis - both lungs; pericardium (with effusion); spleen; liver; peritoneum. -

TISSUE FOR SECTION: Thalamus; midbrain^(Horn); medulla; cervical; Thoracic; Lumbar. (Z-A).

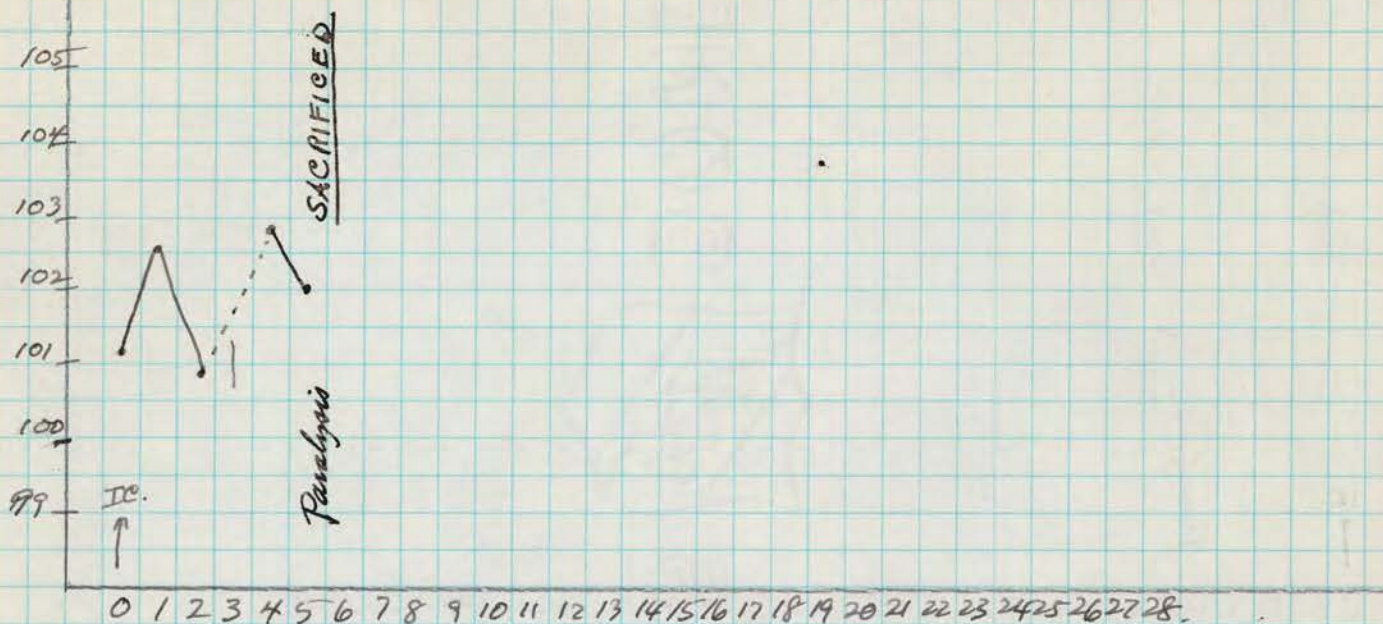
HISTOLOGY:

NO acute neuronal changes. Spinal cord shows extensive neuronal loss; glial infiltration; one ant. horn in a sacral segment shows organizing hematomyelia; medulla shows sparse glial infiltration; midbrain shows very mild cuffing. Thalamus shows scattered interstitial glial infiltration.

DIAGNOSIS: POLIO "old"

OCT 21 1948 Control Monkey [redacted] IKUS - (Heterologous Challenge Experiment)

Rh. 1011 - Control for [redacted] Coalescent Rh. 536; 537; 545; 546.



OCT 21 1948 Inoc. IC with 0.5 cc of 1:50 [redacted] polio virus (Gen. II),
Estimated to be 100 PD₅₀. (Rh. 1012 overleaf also control.)

10-23-48 ambulant

10-24-48 " "

10-25-48 Both lower extremities are clumsy and ambulant

10-26-48 T = 102° almost complete paralysis of left upper. Partial paralysis of both lowers. Weakness of right upper and neck, back & voice.

SACRIFICED (chloroform - exsanguination)

AUTOPSY: No gross the

TISSUE FOR SECTION - lumbar and cervical cord (Z.A.)

11-19-48 tissues discarded

OCT 21 1948

Control Monkeys -

virus. (Heterologous Challenge)
Experiment

Ph. 1012 - Control for Walter's Convalescents Ph. 536, 537, 545, 546.



OCT 21 1948

Inoc. I.C. with 0.5 cc of 1:50

stranifoliovirus (En II)

Estimated to be 100 PD₅₀. (Ph. 1011 overleaf - also a control.)

10-25-48 T=101³ Partial Paralysis of both lowers and back.

10-26-48 T=101⁴ Complete Paralysis of both uppers and back.

Partial Paralysis of both lowers. Weak neck and voice

SACRIFICED (chloroform - exsanguination)

AUTOPSY: No gross lcs

TISSUE FOR SECTION

Spinal and Cervical cord (Z.A.)

11-19-48 tissues discarded

NOV 20 1948

Heterologous Challenge of Polio Convalescent Monkeys.

INTER-URBAN

Rh. # 536

convalescent
unaffected by challenge
with [redacted] virus (100 P.D.₅₀)

Challenged
with

[CINCINNATI]

polio
virus.



NOV 20 1948

Challenged by IC inoculation of 0.5 cc of 1:200
polio virus (Cn II); estimated 100 P.D.₅₀.

(Controls Rh. 478 X } g.u. record with
979 X } Rh. 521 - Terminal
convalescent.

CONDITION AT CHALLENGE: Almost complete paralysis of both lowers, with preser-
vation of feeble foot motions; - There is extensive atrophy of both lowers.
The uppers show mild atrophy R > L, but monkey got around and
climbs well with uppers. - Head; neck: back O.K.

12-18-48 Observation Terminated
SACRIFICED Discarded

NOV 20 1948 - Heterologous Challenge of Polio Convalescent Monkeys -

Rh. #537-

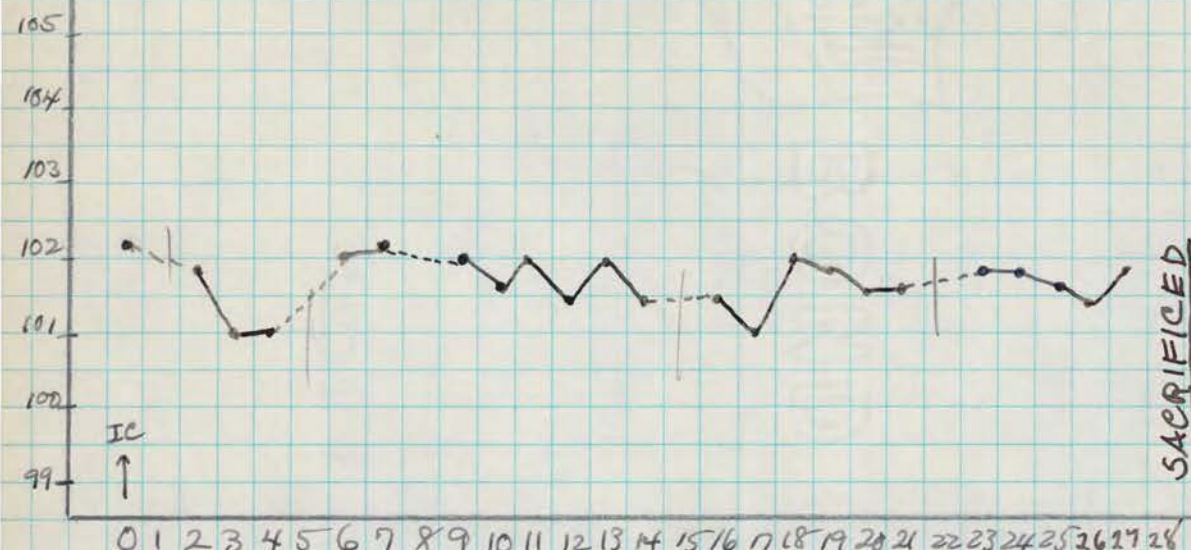
INTER-URBAN

convalescent,
unaffected by
virus (100 PD₅₀)

challenged
with

polio
virus [CINCINNATI]

[AKRON]



NOV 20 1948 - Challenged by IC inoculation of 0.5 cc of 1:200 strain of polio virus - Gen II, Estimated 100 PD₅₀. - simultaneous controls Rh. 975X, 979X - records kept with that of Rh. 521, a convalescent monkey. (g.v.).

CONDITION AT CHALLENGE: left lower shows partial paralysis with moderate atrophy; right lower and both uppers appear of normal power and without atrophy.

12-18-48 Observation Terminated
SACRIFICED Discarded

NOV 20 1948

Heterologous Challenge of Polio Convalescent Monkeys
- INTER-URBAN -

Rh. #545 -

[AKRON] 100 PD₅₀ of [redacted] convalescent
 unaffected by challenge with [redacted] polio

challenged with [redacted]

[CINCINNATI] polio virus.



NOV 20 1948 - Challenged IC with 0.5 cc of 1:200 [redacted] strain of polio virus (Gen II), Estimated 100 PD₅₀ (controls Rh. 170A and Rh 979X - whose records are with that of Rh. 521 - [redacted] convalescent. -

CONDITION AT CHALLENGE: Almost complete paralysis of right upper, with preservation of feeble wrist motion; severe atrophy in rt. upper. - The left upper O.K. - Almost complete paralysis of right lower except for feeble foot movement. - - left lower shows complete paralysis - and both lowers show mod. severe atrophy. The neck, back, head O.K.

12-18-48 Observation Terminated
SACRIFICED Discarded