

June 6, 51

Comparative test for neutralizing antibody vs own virus in
3 months and 3 year serum of patient

Virus: Gen II, 2-20-48 / (Cum. titer in 1948 $10^{-4.1}$), test of 10-14-48 5+?

Sera to be tested: 3 mo serum 11-24-47
3 yr serum. 7-14-50
10

Selection of dose of virus: $10^{-2.3}$ (= 1:200)

Procedure: prepare following dilutions of indicated sera in saline:

a	3 mo serum 1:4	0.4 cc undil. + 1.2 cc saline.	remainder 1.2 cc
b	1:16	0.4 cc 1:4 + "	"
c	1:64	0.4 cc 1:16 + "	"
d	1:256	0.4 cc 1:64 + " → discard 0.4 cc	"
e	3 yr serum undil.	1.2 cc —	"
f	1:4	0.4 cc undil + "	"
g	1:16	0.4 cc 1:4 + "	"
h	1:64	0.4 cc 1:16 + "	"
i	1:256	0.4 cc 1:64 + " → " "	"

f Saline control 1.4 cc saline.

Virus: 1:100 = 1 cc 20% (1:5) + 19 cc saline = virus 10^{-2} .

Add to each tube a-i 1.2 cc virus 10^{-2} and to f 1.4 cc virus 10^{-2} →
final dil. of virus $10^{-2.3}$ (1:200)

Leave at room t. (79°F) for 1 hr and in refrigerator overnight.

Immediately prior to inoculation of monkeys prepare 10 fold dilutions in saline from saline control tube as follows:

$10^{-2.3}$ (2.8 cc)
 $10^{-3.3}$ (0.3 cc $10^{-2.3}$ + 2.7 cc saline)
 $10^{-4.3}$ (" $10^{-3.3}$ + " ")
 $10^{-5.3}$ (" $10^{-4.3}$ + " ")

Inoculate $\frac{1}{2}$ cc into the right thoracic area of each of 4 rhesus monkeys.

11⁰⁰ a.m. dilutions made for virus.

PREPARATION	DILUTION	Rhesus No.	RESULTS	
3 Mo. SERUM	1:256	2063 X P22	Killed	22
		2064 X K		
		2065 X K		1/4
		2066 X K		
	1:64	2067 X K		
		2068 X K		1/4
		2069 X K		
		2070 X P28		28
	1:16	2071 X K		
		2072 X K		0/4
		2073 X K		
		2074 X K		
	1:4	2075 X K		
		2076 X K		0/4
		2077 X K		
		2078 X K		
3 YEAR SERUM	1:256	2079 X D5	protein pos. checked by MBS	1/4
		2080 X K		
		2081 X K		
		2082 X K		
	1:64	2083 X K		
		2084 X P9 killed		9
		2085 X K		2/4
		2086 X P21 Killed		21
	1:16	2087 X K		
		2088 X K		0/4
		2089 X K		
		2090 X K		
	1:4	2091 X K		
		2092 X K		0/4
		2093 X K		
		2094 X K		
VIRUS CONTROL AND TITRATIONS	UNDIL.	2103 X K		0/4
		2104 X K		
		2105 X K		
		2106 X K		
	10 ^{-5.3}	2107 X K		0
		2108 X K		13
		2109 X P13 Killed		13
		2110 X P13 Killed		
	10 ^{-4.3}	2025 X P10 killed		10
		2026 X P10 killed		10
		2027 X P10 killed		10
		2028 X K		NP
	10 ^{-3.3}	2029 X K		NP
		2030 X P6 killed		6
		2031 X P10 killed		10
		2032 X P14 Killed		14
10 ^{-5.3}	10 ^{-2.3}	2111 X P6 killed		6
		2112 X P10 killed		10
		2170 X P11 Killed		11
		2171 X P14 Killed		14

1:322+?
X2

1:644+?

1:256+?
X2

1:512+?

VIRUS CONTROL
AND
TITRATIONS

10^{-5.3}

- SERUM DILUTION NEUTRALIZATION

Rh 2063

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
JUNE 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
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	20	
JUNE 28	21	
JULY 1	22	Definite paresis of lower and right arm. Killed. CNS sections in Zenkers.
JULY 2	23	
JULY 3	24	
JULY 4	25	
JULY 5	26	
JULY 6	27	
JULY 7	28	
JULY 8	29	
JULY 9	30	

SERUM DILUTION NEUTRALIZATION

Rh 2064

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
JUNE 7, 1951	0	
	1	
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10	3	
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30	22	
	23	
July 1	24	
2	25	
3	26	
4	27	Killed for histology.

- SERUM DILUTION NEUTRALIZATION

Rh 2065

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
	27	→ Killed for histology.

- SERUM DILUTION NEUTRALIZATION

Rh 2066

3 MONTH SERUM - 1:256

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
	27	Killed for histology.

Rh 2067

3 MONTH SERUM - /'64

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	24	
	25	
	26	
	27	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2068

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
	27	Killed for histology.

Rh 2069

3 MONTH SERUM - 1:64

DATE	DAY	REMARKS
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June 7, 1951

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Killed for histology

— SERUM DILUTION NEUTRALIZATION

Rh 2070

3 MONTH SERUM — 1:64

DATE	DAY	REMARKS
June 7, 1951	0	
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July 5		definite paralysis of lower killed piece of lumbar cord (enlargement) in tentacles.

— SERUM DILUTION NEUTRALIZATION

Rh 2071

3 MONTH SERUM — 1:16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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- SERUM DILUTION NEUTRALIZATION

Rh 2072

3 MONTHS SERUM - 1:16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
	27	
July 6	29	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2073

3 MONTH SERUM - 1/16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	27	
	28	
July 6	29	Killed for histology.

- SERUM DILUTION NEUTRALIZATION

Rh 2074

3 MONTH SERUM - 1:16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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July 6	29	Killed for Histology.

SERUM DILUTION NEUTRALIZATION

Rh 2075

3 mo. serum - 1:4

DATE	DAY	REMARKS
June 7, 1951	0	
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	27	
July 6	28	
	29	killed for histology

STANDARD B & P "NOE"AR

STANDARD B & P "NOE"AR

SERUM DILUTION NEUTRALIZATION

Rh 2076

3 MONTH SERUM - 1:4

DATE	DAY	REMARKS
June 7, 1957	0	
	1	
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	27	
	28	
July 6	29	killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2077

3 MONTH SERUM - 1:4

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	28	
July 6	29	Killed for histology.

SERUM DILUTION NEUTRALIZATION

Rh 2078

3 MONTHS SERUM - 1:4

DATE	DAY	REMARKS
June 7, 1951	0	
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	27	
July 6	28	→ Killed for histology.
	29	

Rh 2079

3 YEAR SERUM - 1:256

DATE	PAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	Prostrate - no ptyalism - no diarrhea. Dehydrated. temp. 101. Injection - 60cc. saline subcut. - 1 gram chloramphenicol per cc. Later: died - sections CNS in zenker. Very meager animal. Autopsy: belly no gross lesions. thorax: acute fibrinous pericarditis and pleuritis. Slight adhesions. Culture: <u>E. coli</u> .
		In abdomen - weak sm. small foci of leucocytes + interstitial necrosis could be due to acute periton. Possibility of extension of septal thrombi - can not be ruled out.

SERUM DILUTION NEUTRALIZATION

Rh 2080

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	27	
	28	
July 6	29	Killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2081

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
July 5	27	Killed for histology.
	28	

SERUM DILUTION NEUTRALIZATION

Rh 2082

3 YEAR SERUM - 1:256

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	26	
	27	
	28	
July 6	29	Killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2083

3 YEAR SERUM - 1.64

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
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June 17,	10	
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	12	
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	17	
	18	
	19	
	20	
	21	
	22	
June 30,	23	
July 11	24	
	25	
	26	
	27	
July 5	28	1 killed for antibodies

- SERUM DILUTION NEUTRALIZATION

RL 2084

3 YEAR SERUM - 1'64

DATE	DAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
15	8	
16	9	Paralysis of lowers. Can walk with difficulty Hilled fastness & pieces enlargement in testes.

- SERUM DILUTION NEUTRALIZATION

Rh 2085

3 YEAR SERUM - 1/64

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
July 5	27	
	28	killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2086

3 YEAR SERUM - 1/64

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	19	
	20	
28	21	Paralysis of lowers. Cant walk. Killed. Sections CNS in zippers.

SERUM DILUTION NEUTRALIZATION

Rh 2087

3 YEAR SERUM - 1/16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
July 4	27	skipped for history
July 5	28	

SERUM DILUTION NEUTRALIZATION

Rh 2088

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
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June 7, 1951

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July 4
" 5

27 - Killed for histology
28

- SERUM DILUTION NEUTRALIZATION

Rh 2089

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	Looks ill but no paralysis.
	8	
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	23	
	24	
	25	
	26	
July 4	27	pills for mobility
" 5	28	

- SERUM DILUTION NEUTRALIZATION

Rh 2090

3 YEAR SERUM - 1:16

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	23	
	24	
	25	
	26	
July 4	27	sterilized for histology
" 5	28	

Rh 2091

3 YEAR SERUM - 1.4

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
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	4	
	5	
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	7	
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	10	
	11	
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	24	
	25	
	26	
July 4	27	killed for histology

— SERUM DILUTION NEUTRALIZATION

Rh 2092

3 YEAR SERUM - 1:4

DATE

DAY

REMARKS

June 7, 1951

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1

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July 4

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Killed for histology

Rh 2093

3 YEAR SERUM - 1:4

DATE	DAY	REMARKS
June 7, 1951	0	
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	25	
	26	
July 4	27	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2094

3 YEAR SERUM - 1.4

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	25	
	26	
July 4	27	killed for histology

- SERUM DILUTION NEUTRALIZATION

Rh 2103

3 YEAR SERUM - UNDI.

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
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	24	
	25	
July 4	26	
	27	illed for histology

— SERUM DILUTION NEUTRALIZATION

Rh 2104

3 YEAR SERUM — UNDI.

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
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	7	
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	9	
	10	
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	24	
	25	
	26	
July 4	27	collected for histology

Rh 2105

3 YEAR SERUM - UNOIL.

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
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	5	
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	7	
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	10	
	11	
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	26	
July 4	27	killed for histology.

SERUM DILUTION NEUTRALIZATION

Rh 2106

3 YEAR SERUM - UNDIW

DATE	DAY	REMARKS
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June 7, 1951

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July 4

27

collected for histology

SERUM DILUTION NEUTRALIZATION

Rh 2107

CONTROL - $10^{-5.3}$

DATE	DAY	REMARKS
June 7, 1951	0	
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	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
July 5	28	killed for histology

SERUM DILUTION NEUTRALIZATION

Rh 2108

CONTROL - 10-5.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
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	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
July 5	28	collected for histology

Rh 2109

CONTROL - 10-5.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	Paresis of lowers. Deltoid paralysis of left.
	14	
	15	
	16	
	17	
	18	
	19	Same as above.
	20	
	21	Killed. Sections CNS in Zenkers.

SERUM DILUTION NEUTRALIZATION

Rh 2110

CONTROL - 10-5.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	Weakness of lowers. Later: definite paralysis of lowers
	14	Prostrate today. Killed for virus

- SERUM DILUTION NEUTRALIZATION

Rh 2025

CONTROL - $10^{-4.3}$

DATE	DAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
15	8	
16	9	
17	10	paralysis of rear legs, cannot walk or stand. killed for virus.

- SERUM DILUTION NEUTRALIZATION

Rh 2026

CONTROL - 10-4.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
17	10	analysis of test legs and left arm. Cannot sit. Killed for virus.

Rh 2027

CONTROL - 10-4.3

DATE	DAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
15	8	
16	9	
17	10	paralysis of rear legs, cannot walk or stand. Killed for virus.

SERUM DILUTION NEUTRALIZATION

Rh 2028

CONTROL-10-43

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
17	10	sampled for serum type and Rh factor
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
July 4	27	delivered for histology

Rh 2029

CONTROL—10^{-3.3}

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	Seems somewhat atactic or weak in lowers but no definite paresis or paralysis
	17	
	18	
	19	
	20	
	21	same.
	22	
	23	
	24	
	25	
	26	
July 4	27	killed for histology

— SERUM DILUTION NEUTRALIZATION

Rh 2030

CONTROL - 10^{-3.3}

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	Definite paralysis of lowers. Can sit but not walk. Killed for virus. Section of lumbar enlargement in gembars.

SERUM DILUTION NEUTRALIZATION

Rh 2031

CONTROL - 10-3.3

DATE	DAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
15	8	
16	9	
17	10	pareisis of front legs - paralysis of right arm killed for virus.

SERUM DILUTION NEUTRALIZATION

Rh 2032

CONTROL - 10-3.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
17	10	Weakness of lower
	11	
	12	
	13	
21	14	definite incomplete paralysis of right rear leg
22	15	Same
	16	
	17	
	18	
	19	
	20	
	21	same. Killed. Sections CVS in ginkgo.

Rh 2111

CONTROL - 10-2.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	Definite paralysis of thigh muscles. Weak. Difficulty in walking. Killed for virus. Section of lumbar enlargement in zebrafish.

Rh 2112

CONTROL - 10-2.3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
17	10	very remarkable tremor of head. Very excitable. Can climb and walk but is atactic.
	11	Also radialis paralysis, left. Paresis of lowers. In afternoon prostrate. Killed. Sections CNS in gestans.

- SERUM DILUTION NEUTRALIZATION

Rh 1970

CONTROL - 10-2,3

DATE	DAY	REMARKS
June 7, 1951	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	Very nervous. Can walk + climb but slowly, not like a normal monkey
	10	
	11	Weakness of lowers.
	12.	paralysis of lowers. Can sit but not climb or walk.
	13	Same.
	14	worse. Paralysis.
June 21	14	Killed. Dissected.

SERUM DILUTION NEUTRALIZATION

Rh 1971

CONTROL - 10-2.3

DATE	DAY	REMARKS
June 7, 1951	0	
8	1	
9	2	
10	3	
11	4	
12	5	
13	6	
14	7	
15	8	
16	9	
17	10	
18	11	
19	12	
20	13	
July 4, 1951	14	Deltoid + radialis paralysis, left. Killed for virus
21		