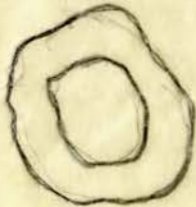
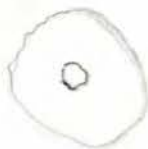
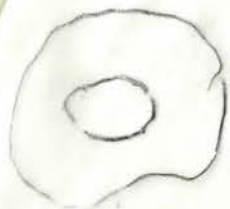


Tyrod's



Rabbit 266  
8th May



# Toxoplasma Neutralization

Toxoplasma used

7th day reading — 1/12/40 - R23

[Redacted]

Post Mortem



N

[Redacted]

1 (10th day)



N

Control



[Redacted]

(10 weeks)



Hyperimmune  
Monkey Serum



N

N

N

1-5-40

Rabbit 23 +  
Dead 1/16/40

Serum neutralization with Homocid 7<sup>th</sup> mouse passage

	1/9	1/10	1/11	1/12	1/9	1/10	1/11	1/12	1/9	1/10	1/11	1/12	10,000
13x N 1/1	13x N 1/2	14x N 1/4	14x N 1/4	13x N 1/8	0.8x 0.8	0.5x 0.7	0.9 N 1.1	1.5 N 1.1	0	0	0.2 0.3	0.7 0.7	0
12x N 1/2	14x N 1/2	14x N 1/4	2x N 1.6	0.5x 0.4	0.4x 0.4	0.6 0.5	0.8 0.9	0	0	0	0	0	0
16x N 1/3	18x N 1/8	18x N 1/8	21x N 1/8	1.3x N 1/2	1.5x N 1/5	1.6 N 1.7	1.7x N 1.3	0.8x 0.8	0.8x 0.8	1.1x N 1.1	1.7x N 1.3	0.8x 0.8	0.8x 0.8
17x N 1/7	21x N 1/8	22x N 1/8	5	13x N 1/2	15x N 1/4	1.6 N 1.4	1.8 N 1.5	0.8x 0.8	0.5x 0.5	0.7 N 0.6	1.1x N 1.1	1.1x N 1.1	0
0.4x 0.4	0	0	0	0	0	0	0	0	0	0	0	0	0

Monkey Serum.

Rabbit 24 +  
Dead 1/13/40

17 N 1/7	19x N 1/6	0.2 N 2.0	0.4 N 2.2	0.8x 0.8	1.5x N 1.5	1.7 N 1.6	1.8 N 1.7	0	0.5x 0.5	0.6 N 0.6	0.8 N 0.4	0	0
19 N 1/8	17x N 1/6	1.8 N 1.8	2x N	1.2 N 2.1	1.6x N 1.6	1.8 N 1.8	2x N	0	1.2x N 1.1	1.2 N 1.2	1.2 N 1.4	0	0
2x N 1/9	5	2x N	2x N	1.5x N 1.5	1.6 N 1.3	1.6 N 1.6	1.9 N 1.7	0.8 N 0.7	1.3x N 1.2	1.4 N 1.2	1.8 N 1.6	0	0
17 N 1/7	2x N	2.2 N 2.2	2.4 N 2.4	1.1 N 1.1	1.5 N 1.3	1.7 N 1.5	1.8 N 1.5	0	1.6x N 1.6	1.9 N 1.9	1.2 N 1.0	0	0
18 N 1/8	21x N 1/2	2.2 N 2.2	2.4 N 2.4	1.5 N 1.4	2.2 N	2x N	2.0 N 2.0	0	0	1.4x N 1.0	2x N 2	0	0



2-20-40

Serum neutralization with

Homans 19<sup>th</sup> mouse passage

Rabbit 35 +  
Found dead 3/3/40

rh. 6 - 3 weeks  
18d

rh. 6 - 31 days  
(Swimmed & discarded)

Tyroses Control

rh. 8 15 days

rh. 8 21 days

Rabbit 36 +  
Found dead 3/4/40

rh. 11 - 15 days

rh. 11 - 21 days  
(Serum checked out)

Tyroses Control

Rubens TT

Collins

	20		100		1000		10000	
	3/4	7/5	3/4	7/5	3/4	7/5	3/4	7/5
rh. 6 - 3 weeks	0.8 x 0.8	1.2 x 1.2	0.3 x 0.5	0.5 x 0.5	0	0	0	0
rh. 6 - 31 days	0.6 x 0.6	1.2 x 1.4	?	0.2 x 0.2	0	0	0	0
Tyroses Control	1.0 x 1.1	1.3 x 1.3	0.5 x 0.5	1.1 x 1.0	0	?	0.14 x 0.12 0.40.9	0.25 x 0.25 0.25
rh. 8 15 days	0.9 x 0.9	1.3 x 1.5	0.2 x 0.2	0.4 x 0.4	0	0.2 x 0.2	0.50.9 x 0.50.6	0
rh. 8 21 days	?	0.5 x 0.5	0	0	0	0	0	0

	20		100		1000		10000	
	3/4	7/5	3/4	7/5	3/4	7/5	3/4	7/5
rh. 11 - 15 days	1.2 x 0.9	1.7 x 1.6	?	?	0	0	0	0
rh. 11 - 21 days	?	0.2 x 0.2	0	0	0	0	0	0
Tyroses Control	1.1 x 1.0	1.7 x 1.7	?	0.2 x 0.2	0	0	0.09 x 0.07	0
Rubens TT	1.1 x 1.1	1.2 x 1.2	?	?	0	0	0	0
Collins	1.1 x 1.1	1.2 x 1.2	?	?	0	0	0	0

3 brains used of 19<sup>th</sup> m. pass. 2 of which were found dead. - Suspension in ice about 3 hours  
0.15 cc serum + 0.15 cc dilution. - 0.2 cc I. Titaneously.

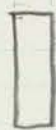
1:20

1:100

1:1000

1:10,000

15 days



15 21

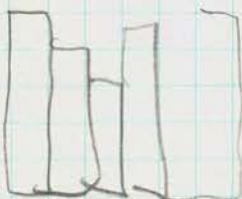
21



1:20

1:10

Monkey No 6.



15 21 31 42

M No



4-22-40 Serum neutralization with Homan 25<sup>th</sup> mouse passage

	20	100	1000	10 000
Rab 56	29 30	29 30	29 30	29 30 51
rh. 6 - 6 wks	0.9 1.1 1.2 0.8 1.1 1.2	1.3 1.7 1.4 1.7	0.6 0.7 0.5 0.7	1.3 1.5 1.8 1.8
rh. 6 - 13 wks	0.3 0.5 1.1 0.3 0.5 1.0	1.7 1.9 1.7 1.9	0.2 0.8 0.2 0.9	1.3 1.5 1.2 1.6
Tyrodas	1.2 1.3 1.4 1.2 1.3 1.7	1.9 2.1 1.8 2.1	0.4 0.9 1.2 0.4 0.9 1.2	1.7 1.7 1.7 1.7
rh. 8 - 6 wks	0.7 1.4 1.5 0.7 1.4 1.5	1.9 2.1 1.8 1.8	0 0 1.0 0 0 0.9	2.0 2.0 1.8 2.0
rh. 8 - 11 1/2 wks	0.8 1.3 1.5 0.8 1.4 1.5	2.1 2.1 2.1 2.1	0 0 1.1 0 0 1.0	1.8 1.8 1.7 1.7

Rab 57 + - 10 dead 5/1/40

rh. 11 - 6 wks	0.6 1.0 1.2 0.6 0.9 1.1	2.0 2.2 1.9 2.2	0.5 0.6 0.4 0.6	1.6 2.0 1.6 2.0
rh. 11 - 11 1/2 wks	0.6 0.9 1.4 0.6 0.9 1.4	2.1 2.3 2.1 2.2	0 0 0.9 0 0 0.9	1.3 1.5 1.3 1.5
Tyrodas	1.6 1.6 1.9 1.6 1.6 1.9	2.1 2.4 2.0 2.3	IXI 1.2 1.4 1.2 1.6	1.7 1.7 1.8 2.0
I - 3-2-40	0.9 1.5 1.8 0.9 1.5 1.8	2.2 2.2 2.0 2.0	0 0.8 1.4 0 0.8 1.4	1.7 1.8 1.7 1.8
II - 4-2-40	IXI 1.4 1.8 1.4 1.8	2.1 2.2 2.1 2.2	0 0.9 1.6 0 0.9 1.6	1.8 2.0 1.7 2.0

Rab 58 + - 10 dead 4/30/40

I	1.6 1.8 2.0 1.7	1.9 2.0	0 1.6 2.0 1.4 2.0	2.2 2.2
II	0.9 1.2 1.7 0.9 1.8 1.4	1.9 1.9	0 0.9 1.7 0.9 1.4	1.9 2.0
Tyrodas	0.8 1.3 1.9 0.8 1.4 1.8	1.9 2.3	0 1.0 1.7 1.4 1.7	1.8 1.8
I - 2-24-40	0.9 1.5 1.6 0.9 1.5 1.6	2.0 2.0	0 1.0 1.6 1.0 1.7	1.9 1.9
II - 3-13-40	0.8 1.7 1.9 0.8 1.8 1.9	2.1 2.0	0 1.5 1.8 1.5 1.8	2.0 2.0

	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8
6-3wks	.64	1.44	2.34	2.4	1.82	.09	.25	.36	.49	1.31	0	0	0	.16	.84	0	0	0	0	0
%	58	85	-	78	56	36	25	-	34	43	0	0	-	100	70	0	0	-	0	0
" 31d	.36	.81	1.68	2.89	2.55	0	.04	.04	.56	1.1	0	0	0	0	0	0	0	0	0	0
	33	48	-	94	79	0	4	-	38	36	0	0	-	0	0	0	0	-	0	0
T	1.1	1.69	2.4	3.06	3.24	.25	1	1.2	1.44	3.04	0	0	0	.46	1.2	0	0	0	0	.25
	100	100	100	100	100	100	100	-	100	<del>100</del>	0	0	-	100	100	0	0	-	0	0
8-15d	.81	1.69	2.25	2.89	3.42	.04	.16	.42	1	3.42	0	0	.04	.25	.54	0	0	0	0	0
	74	100	-	94	105	16	16	-	69	112	0	0	-	156	45	0	0	-	0	0
" 21d	0	.09	.25	.36	1.95	0	0	0	0	.09	0	0	0	0	0	0	0	0	0	0
	0	5	-	12	60	0	0	-	0	3	0	0	-	0	0	0	0	-	0	0

11-15d	.84	1.96	2.72	4.41	3.4	0	0	.09	.36	1	0	0	0	0	0	0	0	0	0	0
	76	116	-	136	104	0	0	-	80	83	0	0	-	0	0	-	-	-	-	-
" 21d	0	.04	.04	.36	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	2	-	11	55	0	0	-	0	0	0	0	-	0	0	-	-	-	-	-
T	1.1	1.69	2.89	3.24	3.24	0	0	.04	.45	1.21	0	0	0	0	0	0	0	0	0	0

6-6 wks	1.21	1.44	-	1.82	2.89	.3	.49	-	2.34	2.7	0	0	-	.9	1.2	0	0	-	.15	.35
	71	60	-	53	65	37	34	-	81	93	0	0	-	58	54	0	0	-	17	29
6-13 wks	.25	1.10	-	2.89	3.61	.04	.72	-	1.56	2.25	0	.2	-	.84	1.5	0	0	-	0	.15
	15	46	-	84	81	5	50	-	54	78	0	.22	-	54	68	0	0	-	0	12
T	1.69	2.38	-	3.42	4.41	.81	1.44	-	2.89	2.89	.35	.9	-	1.54	2.21	0	.04	-	.9	1.21
	100	97	-	100	100	100	100	-	100	100	100	100	-	100	100	0	100	-	100	100

8-6 wks	1.96	2.25	-	3.42	3.78	0	.9	-	3.6	4	0	0	-	1.3	2.56	0	0	-	0	.25
	116	94	-	100	85	0	.62	-	124	138	0	0	-	84	116	0	0	-	0	.21
8-11 1/2 wks	1.82	2.25	-	4.41	4.41	0	.61	-	3.06	3.06	0	0	-	0	.06	0	0	-	0	0
	107	94	-	129	100	0	.76	-	108	106	0	0	-	0	3	0	0	-	0	0

11-6 wks	.9	1.31	-	3.8	4.84	.2	.36	-	2.56	4	0	0	-	.36	1.2	0	0	-	0	.24
	35	36	-	90	87	14	16	-	83	117	0	0	-	21	57	0	0	-	0	14
11-11 1/2 wks	.81	1.96	-	4.41	5.06	0	.81	-	1.69	2.25	0	0	-	0	0	0	0	-	0	0
	32	54	-	105	91	0	.36	-	55	66	0	0	-	0	0	0	0	-	0	0
T	2.56	3.61	-	4.2	5.52	1.44	2.24	-	3.06	3.41	.09	1.44	-	1.68	2.08	0	1.1	-	1.56	1.69

6 - 3wks 31d 6 wks 13 wks  
 8 15d 3wks - 6 wks 11 1/2 wks  
 11 15d 3wks - 6 wks 11 1/2 wks

$\frac{13}{7.2}$   
 $\frac{9}{9}$

RABBIT 132

7<sup>th</sup> DAY

1:20

1:100

1:1000

1:10,000

Normal  
rhesus  
(145)



rh. 6  
55 wks



rh. 8  
54 wks



Tyroides  
Control



2-10-41

6

Serum neutralization with Homan 57th mouse passage  
 toxoplasma dilution + equal amt. of serum. - Rm. temp 1/2 hr  
 0.2°C 1. Cuti

Rab 132 -  
 + dead 2/19/41  
 1800 gms.

Ser of Rh 6 + R8 - 5 days old

Age? 116 days	1:20					1:100					1:1000					1:10000				
	2/4	15	16	17	18	2/4	15	16	17	18	2/4	15	16	17	18	2/4	15	16	17	18
Rh 145	1.0 x 1.3	1.2 x 1.4	S	1.8 x 1.7	N	1.5 x 1.5	1.5 x 1.5	S	flashing	N	?	0.5 x 0.5	S	1.0 x 0.6	N	0	0	?	0.3 x 0.3	Sa
Rh 6 55 wks	0.6 x 0.5	S	0.5 x 0.5	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rh 54 wks	0	0	0	0.6 x 0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	1.4 x 1.5	1.5 x 1.5	S	1.8 x 1.8	N	1.5 x 1.6	1.8 x 1.7	S	1.7 x 1.7	N	0.9 x 0.9	1.1 x 1.1	S	1.2 x 1.5	N	0	0	?	0.3	N

Rh 6 - 55 wks after 1st inj. - Bled 2/5/41

2-18-41

Serum neutralization with Homan 59<sup>th</sup> mouse passage  
 Toxoplasma dilution + equal amt. of serum. Rm. temp -30<sup>min</sup>

7

Rab 133 - + dead 2/26/41  
 ♀ - 2200 gms  
 white

Rh 648 - sera 13 days old

1:20

1:100

1:1000

1:10,000

	7/22	24	25	22	24	25	22	24	25	22	24	25
Rh 6 55 wks	1.0 x 1.0	1.1 x 1.1	H	0.9 x 0.9	1.1 x 1.1	H 1.8 x 1.8	0.6 x 0.6	1.1 x 1.1	H 1.2 x 1.2	0	0.6 x 0.6	0.7 x 0.7
old normal Rh 2 10 wks	1.1 x 1.1	1.5 x 2.8	H	1.0 x 1.0	1.8 x 1.7	H 2.4 x 2.2	0.7 x 0.7	1.1 x 1.2	H 1.2 x 1.2	0	0.8 x 0.8	1.0 x 1.3
Jynodes Control	1.2 x 1.2	H 1.5 x 1.5	H	1.0 x 1.0	1.3 x 1.3	H 1.6 x 1.6	0.8 x 0.8	1.1 x 1.1	H 1.3 x 1.1	0.4 x 0.4	0.8 x 0.9	1.1 x 1.1
Rh 8 54 wks	1.3 x 1.3	H 1.5 x 1.5	H	1.0 x 1.0	1.7 x 1.7	H 1.7 x 1.7	0.5 x 0.5	1.1 x 1.1	H 1.2 x 1.2	0	0.6 x 0.6	1.0 x 1.0

2-25-41 - blanching lesions - measurements not accurate

Rabbit 134  
7<sup>th</sup> day

Black



Rh  
408  
2 wks

Rh  
409  
2 wks

TYRODES  
CONTROL

2-22-41

Serum Neutralization with Human 60<sup>th</sup> m. pass. of  
 temp. dil. + eq pt. Serum - run temp - 1/2 hr.  
 0.2 cc & cut.

Rab 134

8 1750 qms / :20

1:100

1:1000

1:10,000

	26	27	28	3/1	3/2	26	27	28	3/1	2	26	28	3/1	2	26	27	28	3/1	2
Black	0.6 x 0.6	0.9 x 0.9	1.1 x 1.1	1.4 x 1.4	N	?	0.7 x 0.7	0.8 x 0.8	1.2 x 1.2		0	0.2 x 0.2	0.3 x 0.8	0.6 x 0.8	0	0	0	0	0
rh 408 14 days 2 days	0.7 x 0.7	0.9 x 0.8	1.1 x 1.1	1.2 x 1.4	N	?	0.2 x 0.2	0.4 x 0.6	1.1 x 0.9		0	0	0	0	0	0	0	0	0
rh. 409 14 d 2 days	0.9 x 0.9	1.2 x 1.1	1.3 x 1.3	1.5 x 1.3	N	?	0.7 x 0.7	0.8 x 0.8	1.3 x 1.0		0	0	0	0	0	0	0	0	0
Typhoid Control	1.5 x 1.5	1.7 x 1.8	1.9 x 1.9	2.1 x 1.9	N	1.1 x 1.0	1.3 x 1.2	1.5 x 1.5	1.5 x 1.6	N	0.5 x 0.5	0.9 x 0.9	1.2 x 1.2	1.5 x 1.4	N	0	0	0.6 x 0.7	0.7 x 0.8

3-2-41 8<sup>th</sup> day - blanching of the lesions  
 3-3-41 Found dead

2-26-41

Serum Neutralization - Roman 61 St  
Rm. Temp. - 1 hourResistant - 9Rab 135 ♀  
1700 gms

20

100

1000

10 000

rh. 8  
54 wks  
1st inf.

	3/2		3/2		3/2		3/2	
	0.6 x 0.6	0.7 x 0.7	?	0.2 x 0.2	0	0	0	0

rh. 8  
10 days  
2nd inf.

	0.4 x 0.4	0.4 x 0.6	?	0	0	0	0
--	-----------------	-----------------	---	---	---	---	---

Tyrodes  
Control

	0.7 x 0.6	0.7 x 0.6	?	0.	0	0	0 - 0
--	-----------------	-----------------	---	----	---	---	-------

rh. 6  
55 wks  
1st inf.

	0.7 x 0.7	0.9 x 0.9	?	0.3 x 0.3	0	0	0	0
--	-----------------	-----------------	---	-----------------	---	---	---	---

rh 6  
10 days  
2nd inf.

	0.7 x 0.7	0.8 x 0.8	?	0	0	0	0	0
--	-----------------	-----------------	---	---	---	---	---	---

2-27 Tyrodes skin reaction - nothing at 1:10000, 1:1000, slight at 1:100 + 1:20  
Serum - reaction on skin - area of erythema about 3cm x 3cm.

2-28 - Serum - diffuse erythematous areas

Tyrodes - smaller areas for 1:20 + 1:100, nothing 1000 + 10 000

3-1 Serum reactions almost gone  
low dilutions appearing

3-4 - lesions about the same

3-5 - Temp. 102.8

Rabbit 136

7<sup>th</sup> day reading

1:20

1:100

1:1000

1:10 000



Black

rh 8  
54 wks  
after  
1st inj.



rh 8  
10 days



rh 8  
23 days  
after  
2nd inj



Tyroses  
Control



3-15-41

Serum Neutralization @ Homan 66<sup>sh</sup>  
room temp - 1/2 hr.

10

Rabbit 136 ♂

1700 gms

20

100

1000

10 000

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
Black	1.3 x 1.3	N 1.8 x 1.8	N 1.8 x 1.8	N 2.1 x 1.7	0.8 x 0.8	N 1.1 x 1.2	N 1.2 x 1.2	N 1.8 x 1.2	0.3 x 0.3	0.4 x 0.4	0.6 x 0.6	N 1.0 x 1.1	0	0	?	1.0 x 0.8
rh. 8 54 wks 1st inf.	1.3 x 1.3	N 1.7 x 1.8	N 1.7 x 1.7	N 1.8 x 1.6	0.7 x 0.7	N 1.1 x 1.1	N 1.2 x 1.1	N 1.7 x 1.3	0	0.3 x 0.3	0.7 x 0.7	1.2 x 1.4	0	0	?	0.6 x 0.8
rh. 8 10 days 2nd inf.	0.6 x 0.6	0.9 x 0.9	0.9 x 0.9	N 1.3 x 1.2	0	0.3 x 0.3	0.6 x 0.6	1.3 x 1.1	0	0	?	0.7 x 0.6	0	0	0	0
rh. 8 23 d 2nd	0.5 x 0.5	0.9 x 0.9	0.9 x 0.9	N 1.3 x 1.2	0	?	0.3 x 0.3	1.2 x 1.0	0	0	0	0	0	0	0	0
Tyodes Control	1.8 x 1.8	N 1.9 x 1.9	N 1.9 x 1.9	N 1.7 x 1.3	1.1 x 1.1	N 1.3 x 1.3	N 1.3 x 1.3	N 1.7 x 1.8	0.4 x 0.4	0.7 x 0.7	0.8 x 0.8	N 1.0 x 1.1	0	0	?	0.4 x 0.3

- 3-16 Tyodes skin reactions nothing at  $10^{-4}$  &  $10^{-3}$ , slight at  $1:20$  &  $10^{-2}$   
Serum - erythema about  $3 \times 3$  cm.
- 3-17 Serum reactions - diffuse erythema
- 3-22- Blanching lesions PM
- 3-24 Prostrate + dead

$$\sqrt{1.64}$$

$$\begin{array}{r} 11 \overline{) 16.4^9} \\ \underline{.58} \end{array}$$

$$\begin{array}{r} 11 \overline{) 3.6} \\ \underline{48} \\ 33 \end{array}$$

$$\begin{array}{r} 11 \overline{) 8.1^7} \\ \underline{.73} \\ 000 \end{array}$$

$$\begin{array}{r} 169 \overline{) 144.0} \\ \underline{131.2} \\ 12.8 \end{array}$$

$$\begin{array}{r} 169 \overline{) 810} \\ \underline{670} \\ 140 \end{array}$$

$$\begin{array}{r} 169 \overline{) 090} \\ \underline{09} \\ 005 \end{array}$$

$$\begin{array}{r} 306 \overline{) 240.0} \\ \underline{214.2} \\ 2580 \end{array}$$

$$\begin{array}{r} 306 \overline{) 2890} \\ \underline{2448} \\ 16 \end{array}$$

3-19-41

Serum Neutralization  $\bar{c}$  Homologous Plasma 67<sup>th</sup>  
room temp. 1/2 hr.Resistant

11

Rabbit 137

♀ 2300 gm

	20			100			1000			10000		
	4	5	6	4	5	6	4	5	6	4	5	6
rh. 408 2 wks	0.7 x 0.7	0.8 x 0.8	Sa	?	0.4 x 0.4	Sa		0	0	0		
3 wks	0.8 x 0.8	0.8 x 0.8	Sa	?	0.6 x 0.6	Sa		0	0	0		
4 wks	0.9 x 0.9	0.9 x 0.9	Sa	?	0.3 x 0.3	Sa		0	0	0		
5 wks	0.7 x 0.7	0.8 x 0.8	Sa	?	?	0.3 x 0.3		0	0	0		
6 wks	0.8 x 0.8	0.8 x 0.8	Sa	?	?	?		0	0	0		
Tyodes Control	0.9 x 0.9	0.9 x 0.9	Sa	0.8 x 0.8	0.8 x 0.8	Sa		?	0	0		

3/20/40

Skin reactions - 1<sup>st</sup> day - as before

3-21-

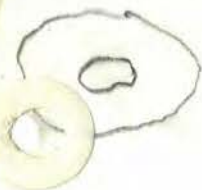
Areas of erythema - diffuse

20

100

1000

10000



2 WKS



3 WKS



4 WKS



5 WKS



6 WKS



Tyrod's Control



rhesus 409 Serum

rabbit 138 7th day

Serum Neutralization @ Homan Temp - 69th  
room temp - 1/2 hr

3-21-41

Rabbit 138

♀ 2600 gm

†

20 100 1000 10 000

4 5 6 7 4 5 6 7 4 5 6 7 4 5 6 7

rh 409  
2 wks

1.2	1.3	1.5	2.2	1.0	1.0	1.2	1.6	0.5	0.6	1.0	1.5	0	0	0	0.8
x	x	x	x	x	x	x	x	x	x	x	x				x
1.2	1.3	1.5	1.6	1.0	1.0	1.2	1.6	0.5	0.6	1.0	1.6				0.6

3 wks

1.4	1.4	1.5	2.0	1.2	1.2	1.3	1.7	0.5	0.4	0.7	1.4	0	0	0	0.8
x	x	x	x	x	x	x	x	x	x	x	x				x
1.4	1.4	1.5	1.6	1.2	1.2	1.3	1.5	0.5	0.4	0.7	1.3				0.2

4 wks

1.3	1.3	1.3	1.6	1.0	1.0	1.2	1.8	0	?	0.4	1.3	0	0	0	0.8
x	x	x	x	x	x	x	x			x	x				x
1.3	1.3	1.3	1.6	1.0	1.0	1.1	1.3			0.4	1.2				0.3

5 wks

1.2	1.2	1.3	1.6	0.8	0.9	1.0	1.7	0	0	?	0.7	0	0	0	0
x	x	x	x	x	x	x	x				x				
1.2	1.2	1.3	1.7	0.8	0.9	1.0	1.2				0.4				

6 wks

1.1	1.2	1.2	1.7	0.8	0.7	0.7	1.1	0	0	0	0	0	0	0	0
x	x	x	x	x	x	x	x								
1.1	1.1	1.2	1.6	0.8	0.7	0.7	1.0								

Tyodes

1.8	2.1	2.1	2.4	1.5	1.6	1.7	1.9	0.8	1.2	1.3	1.6	0	?	0.3	1.2
x	x	x	x	x	x	x	x	x	x	x	x			x	x
1.8	2.1	2.1	2.2	1.5	1.6	1.7	1.9	0.8	1.2	1.3	1.6			0.8	0.7

3-29-41 -  
3-30-41

hesions blanching  
found dead

RABBIT 139

7th DAY

1:20

1:100

1:1000

1:10000

rh. 408  
2 WKS



3 WKS



4 WKS



5 WKS



6 WKS



Tyroses  
Control



3-26-41

Serum Neut.  $\bar{c}$  Homan 68<sup>th</sup>  
room temp - 1/2 hr

13

Rabbit 139  
3500 gm

20

100

1000

10 000

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
rh 408 2 wks	1.4 x 1.4	N 1.5 x 1.7	N 1.5 x 1.8	N 2.0 x 2.2	1.0 x 1.0	1.0 x 1.0	1.0 x 1.0	N 1.4 x 1.4	? ? ?	? ? ?	? ? ?	N 1.5 x 1.4	0 0 0	0 0 0	0 0 0	0 0 0	0.3 x 0.3
3 wks	1.4 x 1.4	N 1.4 x 1.6	N 1.4 x 1.9	N 1.7 x 2.0	1.0 x 1.0	1.0 x 1.0	1.1 x 1.2	N 1.4 x 1.7	0 0 0	0 0 0	0 0 0	1.3 x 1.2	0 0 0	0 0 0	0 0 0	0 0 0	0.2 x 0.2
4 wks	1.2 x 1.2	1.2 x 1.3	N 1.3 x 1.5	N 1.8 x 2.0	0.8 x 0.8	0.8 x 0.8	1.1 x 1.2	N 1.4 x 1.6	0 0 0	0 0 0	0 0 0	1.0 x 1.0	0 0 0	0 0 0	0 0 0	0 0 0	0.5 x 0.5
5 wks	0.9 x 1.0	0.9 x 1.1	N 1.2 x 1.2	N 1.3 x 1.6	0.6 x 0.6	0.6 x 0.7	1.0 x 1.0	N 1.2 x 1.4	0 0 0	0 0 0	0 0 0	0.4 x 0.4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
6 wks	1.1 x 1.1	1.2 x 1.3	N 1.5 x 1.5	N 1.7 x 1.7	al ?	?	al ?	1.0 x 1.0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Tyroses Control	N 1.7 x 1.7	N 1.9 x 1.8	N 1.9 x 1.9	N 2.1 x 2.1	1.5 x 1.5	N 1.5 x 1.5	N 1.5 x 1.5	N 1.6 x 1.9	0.3 x 0.3	0.4 x 0.5	0.5 x 0.6	N 0.9 x 1.3	0 0 0	0 0 0	0 0 0	0 0 0	0.3 x 0.4

9th day - blanching lesions  
10th day - found dead

RABBIT 197  
7<sup>th</sup> DAY

1:20

1:100

1:1000

1:10000

rh. 6  
55 wks  
after  
1st inj.



rh. 6  
10 days  
after  
2nd inj.



rh. 6  
23 days  
after  
2nd inj.



Tyrodex  
Control



3-26-41

Serum neut @ Homaw 68<sup>th</sup>  
room temp - 1/2 hr

Rabbit 197

1650 gm.

20

100

1000

10 000

	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8		
sh. 6 55 hrs after 1st inj.	1.2 x 1.1	1.2 x 1.2	1.2 x 1.2	1.3 x 1.3	N x 1.3	0.3 x 0.3	0.5 x 0.4	0.8 x 0.8	1.1 x 1.0	1.1 x 1.1	?	0.3 x 0.3	0.4 x 0.4	0.7 x 0.7	0.7 x 0.7	0	0	0	0	0	0.5 x 1.3	0.3 x 0.3
sh. 6 10 days 2nd inj.	0.7 x 0.8	0.8 x 0.8	0.9 x 0.9	1.0 x 1.0	1.0 x 1.0	0	0	0.3 x 0.3	0.5 x 0.7	0.4 x 0.4	0	0	0	0	0	0	0	0	0	0	0	0
sh. 6 23 days 2nd inj.	0.3 x 0.3	0.5 x 0.4	0.8 x 0.8	1.0 x 1.0	1.0 x 1.0	0	0	0.3 x 0.3	0.5 x 0.6	0.5 x 0.7	0	0	0	0	0	0	0	0	0	0	0	0
Lynx Control	N x 1.4	N x 1.4	N x 1.5	N x 1.5	N x 1.6	1.0 x 1.0	1.5 x 1.5	1.5 x 1.5	1.6 x 1.6	1.6 x 1.6	0.4 x 0.4	0.6 x 0.6	0.8 x 0.9	1.1 x 1.1	N x 1.1	0	0	?	?	0.3 x 0.3	0.3 x 0.3	

8<sup>th</sup> day - not much change  
10<sup>th</sup> day - Prostrate & dead in P.M.

Rabbit 198  
7<sup>th</sup> Day

rh 6  
3 wks (2nd)



rh 6  
7 wks (2nd)



rh 8  
3 wks (2nd)



rh 8  
7 wks (2nd)



Thyroides



4-2-41

Feb 1988

†

Serum neutralization  $\bar{c}$  Homan 70<sup>ch</sup>  
room temp 40 min.

	20				100				1000				10000			
	4	5	6	7 8	4	5	6	7 8	4	5	6	7 8	4	5	6	7 8
rh 6 3 wks (2nd inj.)	0.8 x 0.8	0.9 x 0.9	0.9 x 0.9	N x 1.0	0.3 x 0.3	0.3 x 0.3	0.5 x 0.5	1.0 x 1.0	0	0	0	0 sl	0	0	0	0
rh 6 7 wks (2nd inj.)	1.0 x 1.0	1.0 x 1.0	N x 1.0	N x 1.2	0.3 x 0.3	0.3 x 0.3	0.3 x 0.3	N x 0.8	0	0	0	0 sl	0	0	0	0
rh 8 3 wks (2nd inj.)	0.9 x 0.9	0.9 x 0.9	N x 1.0	N x 1.3	0.4 x 0.4	0.4 x 0.4	0.3 x 0.3	1.0 x 1.0	0	0	0	0 sl	0	0	0	0
rh 8 7 wks (2nd inj.)	1.0 x 1.0	1.0 x 1.0	N x 1.0	N x 1.3	0	0	sl	0.4 x 0.4	0	0	0	0 sl	0	0	0	0
Tyrodes	1.4 x 1.4	N x 1.6	N x 1.7	N x 1.8	1.5 x 1.5	1.5 x 1.5	N x 1.5	N x 1.5	0.7 x 0.7	1.0 x 1.0	1.1 x 1.1	N x 1.3	N	?	0	0

11<sup>th</sup> day - head wobble - head rolling  
12<sup>th</sup> day - found dead

Rabbit 200  
7th Day

20

100

1000

10 000

rh 408  
6 wks



rh 408  
7 wks



rh 409  
6 wks



rh 409  
7 wks



Tyroses



6

Serum Neutralization @ Homare 71<sup>st</sup>  
 room Temp - 1 hour

4-2-41  
 Rab 200 +

	20				100				1000				10000										
	4	5	6	7	9	4	5	6	7	9	4	5	6	7	8	9	4	5	6	7	9		
rh 408 6 wks	1.2 x 1.2	N 1.2 x 1.2	N 1.2 x 1.2	N 1.2 x 1.3		0.8 x 0.8	0.9 x 0.9	0.9 x 0.9	N 1.0 x 1.0			?	?	?	0.4 x 0.4	0.4 x 0.4	0	0	0	0	0	0	0
rh 408 7 wks	1.3 x 1.3	N 1.2 x 1.2	N 1.3 x 1.3	N 1.4 x 1.3		0.7 x 0.4	0.6 x 0.6	0.7 x 0.7	N 0.8 x 0.9			0	0	0	0.4 x 0.4	0.4 x 0.4	0	0	0	0	0	0	0
rh 409 6 wks	1.0 x 1.0	N 1.2 x 1.2	N 1.2 x 1.2	N 1.4 x 1.4		0.7 x 0.7	0.7 x 0.7	0.9 x 0.9	N 0.9 x 1.0			?	?	?	0.4 x 0.4	0.4 x 0.4	0	0	0	0	0	0	0
rh 409 7 wks	0.8 x 0.8	1.0 x 1.0	0.9 x 0.9	1.2 x 1.1		0.3 x 0.3	0.3 x 0.3	0.5 x 0.5	0.5 x 0.8			0	0	0	0	0	0	0	0	0	0	0	0
Tyrodos	1.3 x 1.3	N 1.5 x 1.5	N 1.5 x 1.5	N 1.5 x 1.8		0.9 x 0.9	1.0 x 1.0	1.2 x 1.3	N 1.2 x 1.5			0.6 x 0.6	0.8 x 0.8	1.3 x 1.2	1.3 x 1.2	1 Sa	0	?	?	0.3 x 0.3	0.7 x 0.7	0.7 x 0.7	

4-12-41 - Found dead

Rabbit 140  
7th Day

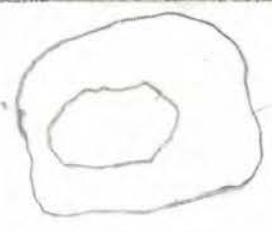
20

100

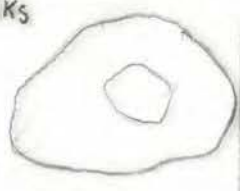
1000

10 000

rh 410 2 wks



3 wks



4 wks



5 wks



6 wks



7 wks



C Thyrodes
























4-4-41  
 Rab 140 +

Serum neutralization @ Homan 71st  
 room temp. 3/4 hr

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 410 2 wks (35)	H 1.8 x 1.8	H 2.0 x 3.5	H 2.0 x 4.0	H 2.2 x 4.5	H 1.0 x 1.0	H 3.0 x 3.5	H 2.8 x 3.5	H 3.0 x 3.2	H 0.8 x 0.8	H 0.9 x 1.5	H 0.9 x 1.5	H 1.0 x 1.5	H 0.3 x 0.3	H 0.7 x 0.7	H 0.7 x 0.7	H 0 x 0
3 wks (29)	H 1.6 x 1.6	H 1.6 x 1.6	H 1.7 x 1.8	H 2.1 x 3.0	H 0.8 x 0.8	H 1.0 x 1.0	H 1.2 x 1.2	H 1.8 x 1.8	0	H 0.3 x 0.3	H 0.6 x 0.6	H 1.0 x 1.0	0	0	0	H 0.4 x 0.3
4 wks (23)	H 1.4 x 1.4	H 1.5 x 1.5	H 1.7 x 1.7	H 2.0 x 2.5	H 0.4 x 0.4	H 0.8 x 0.8	H 1.1 x 1.1	H 1.5 x 1.5	0	?	H 0.3 x 0.3	H 1.0 x 1.0	0	0	0	0
5 wks (17)	H 1.2 x 1.2	H 1.4 x 1.4	H 1.5 x 1.6	H 1.7 x 1.9	H 0.5 x 0.5	H 0.7 x 0.7	H 1.0 x 1.0	H 1.5 x 1.6	0	0	0	0	0	0	0	0
6 wks (9)	H 1.1 x 1.1	H 1.2 x 1.2	H 1.2 x 1.2	H 1.5 x 1.7	H 0.3 x 0.3	H 0.3 x 0.3	H 0.5 x 0.5	H 1.0 x 0.9	0	0	0	0	0	0	0	0
7 wks (2)	H 0.7 x 0.6	H 1.0 x 1.0	H 1.0 x 1.0	H 1.4 x 1.6	0	?	?	H 0.3 x 0.2	0	0	0	0	0	0	0	0
Tyodes	H 1.2 x 1.0	H 1.1 x 1.1	H 1.2 x 1.2	H 1.6 x 2.0	H 0.8 x 0.8	H 1.0 x 1.0	H 1.0 x 1.0	H 1.3 x 1.3	H 0.6 x 0.6	H 0.8 x 0.8	H 0.8 x 0.8	H 1.4 x 1.3	?	?	?	H 0.2 x 0.2

2 wks serum diluted @ water. - Contaminated - filtered 4/10/41  
 5<sup>th</sup> day - dead in P.M. Touch of 3 wks nodule 1.20 bact + toxop

Rabbit 141  
7th Day

	20	100	1000	10000
hw 411 2 wks				
3 wks				
4 wks				
5 wks				
6 wks				
7 wks				
Tyrodex				

4-4-41

Rab 141

+

Serum neutralization - Homara 71<sup>ST</sup>  
room temp - 1 hr

18

	20					100					1000				10000					
	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8
2 wks	1.1 x 1.1	1.3 x 1.3	N x 1.5 x 1.5	N x 2.0 x 2.0	N x 2.1 x 0.6	0.6 x 0.8	0.6 x 0.8	0.7 x 0.8	N x 1.4 x 1.4	N Sa	?	0.3 x 0.3	0.6 x 0.7	1.1 x 1.2	N Sa	0	0	0	0.6 x 0.5	Sa
3 wks	1.1 x 1.1	1.2 x 1.4	N x 1.4 x 1.5	N x 1.9 x 2.0	N x 2.0 x 0.8	0.8 x 1.0	1.0 x 1.0	1.2 x 1.2	N x 1.6 x 1.6	N Sa	?	?	0.3 x 0.3	1.1 x 1.1	Sa	0	0	0	0.3 x 0.6	Sa
4 wks	1.2 x 1.2	1.3 x 1.3	N x 1.4 x 1.4	N x 2.0 x 2.0	N x 2.0 x 0.5	0.5 x 0.7	0.7 x 0.7	0.8 x 0.8	1.2 x 1.5	N Sa	?	0	?	0.6 x 0.7	Sa	0	0	0	0	0
5 wks	1.0 x 1.0	1.1 x 1.1	N x 1.2 x 1.2	N x 1.3 x 1.4	N x 1.3 x 0.3	0.3 x 0.3	0.6 x 0.6	1.0 x 1.0	1.1 x 1.5	N Sa	0	0	0	0	0	0	0	0	0	0
6 wks	1.0 x 1.0	1.0 x 1.0	N x 1.2 x 1.2	N x 1.5 x 1.5	N x 1.5 x 0.3	0.3 x 0.3	0.5 x 0.5	0.9 x 0.9	N x 1.2 x 1.4	N Sa	0	0	0	0	0	0	0	0	0	0
7 wks	0.6 x 0.6	0.9 x 0.9	N x 1.0 x 1.0	N x 1.5 x 1.6	N x 1.5 x 1.6	0	?	0.6 x 0.6	0.9 x 0.9	N Sa	0	0	0	0	0	0	0	0	0	0
Tyrodts	1.2 x 1.2	1.3 x 1.3	N x 1.4 x 1.4	N x 2.0 x 2.0	N x 2.0 x 1.2	1.2 x 1.2	1.3 x 1.3	1.6 x 1.6	1.7 x 1.8	N Sa	0.5 x 0.4	0.9 x 0.9	1.1 x 1.1	1.1 x 1.2	N Sa	0	0	0	0.4 x 0.3	Sa

8th day - found dead

9th day - found dead

Rabbit 142  
7<sup>th</sup> day

rh 408  6wks				
7wks				
8wks				
9wks				
rh 6 9wks 2nd				
Hydrates				

4-11-41  
Rab 142

+

Serum neutralization (Homard) 71<sup>st</sup>  
room temp - 4 1/2 hr.

19

20

100

1000

10 000

	20					100					1000					10 000				
	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8
rw 408			N	N	N		N	N	N	N										
6 wks (23)	0.7 x 0.7	0.9 x 0.9	1.0 x 1.1	1.4 x 1.5	Sa	0.4 x 0.4	0.9 x 0.9	1.2 x 1.2	1.2 x 1.3	1.3 x 1.5	0	?	0.6 x 0.6	1.2 x 1.5	Sa	0	0	?	0.3 x 0.5	0.5 x 0.5

7 wks 16 days	N 1.2 x 1.2	N 1.5 x 1.5	N 1.6 x 1.8	N 1.7 x 1.9	N 2.0 x 2.2	0.5 x 0.5	1.2 x 1.2	1.2 x 1.2	1.6 x 1.6	N Sa	0	0.6 x 0.6	0.9 x 1.0	1.4 x 1.4	Sa	0	0	?	0.8 x 0.6	0.6 x 0.8
------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----------------	-----------------	-----------------	-----------------	---------	---	-----------------	-----------------	-----------------	----	---	---	---	-----------------	-----------------

8 wks	1.2 x 1.2	1.3 x 1.3	1.5 x 1.5	1.5 x 1.8	1.7 x 1.9	0.3 x 0.3	0.8 x 0.8	1.1 x 1.1	1.6 x 1.6	N Sa	0	0	?	sl	0.4 x 0.4	0	0	0	0	0
-------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	---------	---	---	---	----	-----------------	---	---	---	---	---

9 wks	1.1 x 1.1	1.3 x 1.3	1.5 x 1.5	1.5 x 1.7	1.7 x 1.7	0.5 x 0.5	0.8 x 0.8	1.1 x 1.1	1.6 x 1.5	N Sa	0	0	?	sl	0.5 x 0.5	0	0	0	0	sl
-------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	---------	---	---	---	----	-----------------	---	---	---	---	----

rw. 6 8 wks 2nd inj.	0.4 x 0.4	1.0 x 1.0	1.5 x 1.5	1.6 x 1.9	2.0 x 2.0	0	0	sl	0.5 x 0.6	Sa	0	0	0	0	0	0	0	0	0	0
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Tyrodas	N 1.3 x 1.3	N 1.4 x 1.4	N 1.5 x 1.7	N 1.8 x 1.9	N Sa	1.0 x 1.0	1.3 x 1.5	1.5 x 1.6	1.5 x 1.8		1.0 x 1.0	1.2 x 1.2	1.5 x 1.5	1.5 x 1.5	Sa	0	0	?	1.0 x 1.0
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4-21-41- Found dead

Rabbit 143

7<sup>th</sup> day

rh 409

6 wks



7 wks



9 wks



rh 8

9 wks

2nd



Tyroses



4-11-41

Serum reult.  $\bar{c}$  Homog 71 st  
room temp - 1 hr.

20

Rab 143

20

100

1000

10 000

	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	
rh 409		N	N				N	N	N						N						
6 wks	0.8 x 0.8	1.0 x 1.0	1.0 x 1.0	1.5 x 1.3		0.5 x 0.5	0.6 x 0.8	0.8 x 0.9	0.9 x 0.9	1.0 x 1.1	?	0.4 x 0.4	0.6 x 0.6	0.7 x 0.7	0.7 x 0.7	0	0	?	0.5 x 0.5	0.5 x 0.7	

7 wks

		N	N	N			N	N	N												
	0.9 x 0.9	1.0 x 1.0	1.0 x 1.2	1.1 x 1.4		0.7 x 0.7	0.9 x 0.9	1.0 x 1.0	1.1 x 1.2	1.2 x 1.3	?	sl	0.8 x 0.8	1.2 x 1.2	1.1 x 1.1	0	0	?	0.5 x 0.5	sl	

8 wks

			N	N				N	N	N											
	0.9 x 0.9	1.1 x 1.1	1.2 x 1.2	1.3 x 1.3		0.5 x 0.5	0.8 x 0.8	1.0 x 1.0	1.1 x 1.1	1.1 x 1.1	0	0	?	0.3 x 0.4	0.5 x 0.5	0	0	0	0	0	0

9 wks

			N	N																	
	0.9 x 0.9	1.2 x 1.2	1.2 x 1.3	1.3 x 1.4		0.3 x 0.3	0.3 x 0.3	0.7 x 0.7	0.7 x 0.7	1.0 x 1.0	0	0	0	0	0.3 x 0.3	0	0	0	0	0	0

rh. 8

8 wks  
standing

			N	N																	
	0.5 x 0.5	1.0 x 1.0	1.0 x 1.0	1.2 x 1.2		0	0	sl	0.4 x 0.4	0.7 x 0.7	0	0	0	0	0	0	0	0	0	0	0

Tyrodes.

	N	N	N	N				N	N												
	1.1 x 1.1	1.2 x 1.5	1.2 x 1.5	1.6 x 1.8		1.0 x 1.0	1.3 x 1.3	1.3 x 1.3	1.3 x 1.5	sl	0.7 x 0.7	1.0 x 1.0	1.0 x 1.0	1.2 x 1.3	N	0	0	?	0.4 x 0.6	sl	

4-21-41 -

Weak-tremor

4-22-41

Found dead

Rabbit 144  
7<sup>th</sup> Day

20

100

1000

10000

rh 411  
3 wks



4 wks



5 wks



6 wks



7 wks



4-23-41 Reb 144 Serum neut.  $\bar{c}$  Homocid 74<sup>06</sup> - Sedmt - 1/2 hr at 4°C.  
 Ser.+ Dilutions ab room temp. 1 1/2 - 3 hrs. Effect of no. of injections

	20				100				1000				10 000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rw 411 3 wks	0.9 x 0.9	1.0 x 1.0	1.3 x 1.3	1.8 x 1.5	0.5 x 0.5	0.7 x 0.7	1.0 x 1.0	1.4 x 1.3	0	0.6 x 0.6	0.8 x 0.9	1.0 x 0.9	0	0	0	0
rw 411 4 wks	0.7 x 0.7	1.0 x 1.0	1.4 x 1.1	1.6 x 1.2	0	0.5 x 0.5	1.0 x 1.0	1.7 x 1.7	0	0.5 x 0.5	0.6 x 0.6	1.2 x 1.0	0	0	0	0
Tyroses Control	1.1 x 1.1	1.5 x 1.6	1.8 x 1.6	2.4 x 1.7	1.0 x 1.0	1.3 x 1.3	1.5 x 1.5	1.8 x 1.8	0	0.4 x 0.4	0.6 x 0.7	1.1 x 1.0	0	0	0	0
rw 411 6 wks	0.9 x 0.9	1.1 x 1.1	1.2 x 1.2	1.5 x 1.5	0.5 x 0.5	0.7 x 0.7	1.0 x 0.8	1.5 x 1.2	0	?	0.7 x 0.7	1.0 x 0.8	0	0	0	0
rw 411 7 wks	0.9 x 0.9	1.3 x 1.2	1.5 x 1.4	1.6 x 1.6	0.8 x 0.8	0.9 x 0.9	1.2 x 1.0	1.3 x 1.2	0	sl	0.6 x 0.8	1.0 x 0.8	0	0	0	0

5-2-41 Found dead

Rabbit 145  
7th Day

20

100

1000

10 000

411  
7 wks



6 wks



5 wks



Tyr



2 wks



3 wks



4 wks



4-23-41 + Rab 145

Serum recd. C. Homag 14<sup>th</sup>  
room temp. 1 1/2 - 3 hrs.

















Effect of no. of injections

20 100 1000 10 000

	20				100				1000				10 000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 411 7 wks	0.5 x 0.5	0.9 x 0.9	1.2 x 1.1	1.9 x 1.8	0	0.5 x 0.5	1.0 x 0.8	1.3 x 1.2	0	0	?	0.6 x 0.4	0	0	0	0
rh 411 6 wks	1.0 x 1.0	1.0 x 1.0	1.8 x 1.4	2.0 x 1.5	0	0.6 x 0.6	0.8 x 0.9	1.5 x 1.3	0	0	0.5 x 0.5	1.0 x 0.7	0	0	0	0
rh 411 5 wks	1.0 x 1.0	1.1 x 1.1	1.3 x 1.2	1.7 x 1.5	0	0.6 x 0.5	1.0 x 0.9	1.3 x 1.3	0	0	0.4 x 0.4	0.9 x 0.9	0	0	0	0
Synovels	1.2 x 1.2	1.5 x 1.3	2.1 x 1.6	2.4 x 1.6	0.8 x 0.8	1.2 x 1.2	1.5 x 1.2	1.8 x 1.4	0	0.5 x 0.5	0.8 x 0.8	1.0 x 1.0	0	0	0	0
rh 411 2 wks	0.7 x 0.7	1.2 x 1.2	1.2 x 1.2	1.5 x 1.5	?	0.8 x 0.8	1.1 x 1.0	1.2 x 1.2	0	0	0.4 x 0.4	1.0 x 1.0	0	0	0	0
rh 411 3 wks	0.7 x 0.7	1.0 x 1.0	1.2 x 1.1	1.7 x 1.5	0	0.6 x 0.6	1.2 x 0.8	1.3 x 1.0	0	0	0	0.9 x 0.9	0	0	0	0
rh 411 4 wks	0.9 x 0.9	1.0 x 0.9	1.1 x 1.0	1.3 x 1.2	0	sl	0.5 x 0.5	0.8 x 0.7	0	0	0	0	0	0	0	0

5-1-41 - Found dead

Rabbit 146  
7th Day

rh 410 5 wks				?
rh 410 6 wks				?
1 yr				
Forleo				
rh 410 7 wks				?

5-5-41  
Rab 146 +

Serum neut. c. *Homans* 76<sup>th</sup>  
Sediment 1/2 hr - Incubate @ room 1/2 hr.

23

	20				100				1000				10000					
	4	5	6	7 8	4	5	6	7 8	4	5	6	7 8	4	5	6	7 8		
rh 410 5 wks (47 days)	N 1.5 x 1.9	N 1.5 x 2.0	N 1.5 x 2.0	N 1.6 x 2.2	1.1 x 1.2	1.2 x 1.3	1.5 x 1.5	1.8 x 1.8 N	0	0.5 x 0.5	0.6 x 0.6	1.1 x 1.0	1.1 x 1.3	0	0	7	7 0.8 0.8	
rh 410 6 wks (40 d)	1.8 x 2.0	N 2.0 x 2.0	N 2.1 x 2.1	N 2.1 x 2.1	1.0 x 1.0	1.2 x 1.2	1.4 x 1.4	1.8 x 1.8 N	0	0	0.5 x 0.5	1.3 x 0.9	1.3 x 1.9	0	0	?	7 8	
Tyrodex	N 1.3 x 1.3	N 1.5 x 1.5	N 1.5 x 1.6	N 1.9 x 1.8	1.3 x 1.3	1.7 x 1.4	N 1.7 x 1.5	N 1.7 x 1.6	0.5 x 0.5	0.9 x 0.9	0.9 x 0.9	1.3 x 1.3	N	0	0	?	0 0	
Forleo (2 days)	1.3 x 1.3	N 1.4 x 1.5	N 1.4 x 1.5	N 1.8 x 1.8	1.0 x 1.2	1.3 x 1.4	1.4 x 1.4	N 1.6 x 1.6	0.3 x 0.3	0.7 x 0.7	0.8 x 0.9	1.5 x 1.5	1.5 x 1.5	0	0	?	0.8 x 0.6 1.1 x 0.8	
rh 410 7 wks (33 d)	1.8 x 1.8	N 1.8 x 2.0	N 2.0 x 2.1	N 2.1 x 2.3	0.4 x 0.4	0.7 x 0.7	1.0 x 0.8	1.6 x 1.3	N	0	0	0.5 x 0.5	1.0 x 1.0	1.0 x 1.0	0	0	?	7 0.6 x 0.6

Forleo - Patient at Babies - Columbia N.Y.C. - Toxoplasmosis  
bled 4/23/41

5-15-41 - Found dead

No neutralization c above sera kept in ice box several weeks

Rabbit 147

7<sup>th</sup> Day

20

100

1000

10 000

rh 408  
13 wks



rh 409  
13 wks



rh 410  
12 wks



Tyr.



rh 411  
12 wks



rh 6  
12 wks



5-7-41

Serum neut. e Homan 76<sup>th</sup>  
mouse brain - 5<sup>th</sup> day - room temp 1 hr.

24

Rab 147 +

20

100

1000

10000

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 408 13 wks (0 days)	0.4 x 0.4	0.5 x 0.5	0.7 x 0.8	N x 0.9	0	0	0	0	0	0	0	0	0	0	0	0

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 409 13 wks (0 days)	0.4 x 0.4	0.4 x 0.4	0.5 x 0.5	N x 0.7	0	0	0	0	0	0	0	0	0	0	0	0

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 410 12 wks (0 days)	0.5 x 0.5	0.5 x 0.5	0.8 x 0.8	N x 0.7	0	0	0	0	0	0	0	0	0	0	0	0

Tyr.	1.6	1.7	N	1.9	0.9	1.3	1.3	N	0.5	0.5	0.8	0.9	0	0	0	0
	x 1.6	x 1.8	x 1.9	x 2.1	x 0.9	x 1.3	x 1.5	x 1.5	x 0.5	x 0.5	x 0.9	x 1.0				

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 411 12 wks (0 days)	?	0	0.5 x 0.5	1.1 x 1.1	0	0	0	0	0	0	0	0	0	0	0	0

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 6 12 wks (0 days)	?	0	0.4 x 0.4	0.4 x 0.4	0	0	0	0	0	0	0	0	0	0	0	0

Sera tested the day they were obtained

5-15-41 - Found dead

all above sera neut. 10 + modif 100

Also test - serum 1:10  $\bar{c}$  to top. 1:20, 100, 1000, 10<sup>000</sup>  
 test tissues (monkey) for toxop.

Repeat forleo - bleed Toxop. imm. rabbits  $\frac{137}{135}$  + 1. Cer. rabbit  
 fresh normal rabbit

1. Active serum

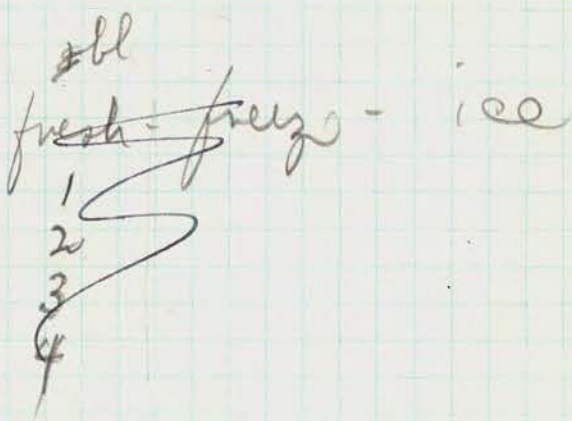
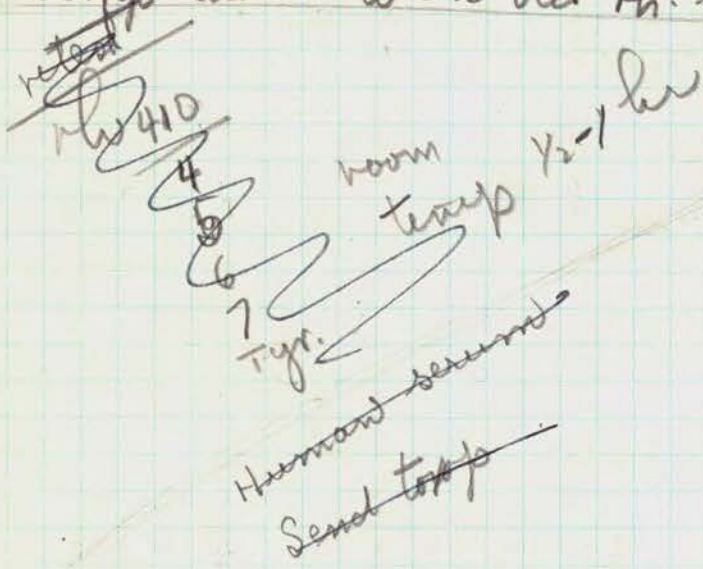
2. " " inact. at 56°C for 1/2 hr

3. " " " " " " + G.p. comp.

4. G.p. comp. control

5. Tyrode's control

6. comp. added to an old rh. serum which lost neut. capacity



- 1 + 4
- .1 + .4
- .2 + .8
- .3 1.2
- .4 1.6

Rab 150  
7th Day

1:20

1:40

1:50

1:10 000

Furles



H 408  
undil  
(15 wks)



H 408  
1:10  
(15 wks)



5-21-41  
Rab 150

	1:20				1:100				1:1000				1:10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
Forles (1 day)	0.5 x 0.5	0.7 x 0.7	0.7 x 0.8	1.0 x 1.0	0	0	0.3 x 0.4	0.6 x 0.6	0	* Eryth 0.7	* Eryth 0.7	0	0	* eryth 0.6	* eryth 0.6	0
rh. 408 undil (15 wt) (0 days)	0.4 x 0.4	0.8 x 0.8	0.9 x 0.9	N 1.0 x 1.0	0	0	0	0.3 x 0.6	0	0	0	0	0	0	0	0
rh. 408 1:10 (0 days)	0.9 x 0.8	1.2 x 1.2	1.2 x 1.2	N 1.3 x 1.4	0.5 x 0.5	0.9 x 0.9	1.0 x 1.0	1.0 x 1.0	0	0.5 x 0.3	0.5 x 0.3	0.8 x 0.7	0	0	?	0.3 x 0.3
Tyr. Control	1.6 x 1.6	1.8 x 1.8	N 1.8 x 1.8	N 2.1 x 2.0	1.3 x 1.3	1.4 x 1.5	1.5 x 1.5	1.5 x 1.6	0	1.0 x 0.6	1.0 x 1.0	1.2 x 1.3	0	0	0	0

Forles bled 5/20/41, tested 5/21/41

\* Forles - 1:1000 } erythema - not like typical toxop. lesions  
" 1:10000 }

5-29-41 - Found dead

Rabbit 151  
7th Day

rh 408  
13 weeks  
21 d. in  
ice chest



rh 408  
13 weeks  
frozen  
3 wks



7 orles

frozen  
7 days



Tyroses  
Control



rh 409  
13 wks  
frozen  
3 wks



rh 409  
13 wks  
21 d. in  
ice chest



5-28-41  
 Rab 151

Serum react. c Homans 80<sup>th</sup>

26

+

1:20

1:100

1:1000

1:10000

rh 408  
 13 weeks  
 (21d. in ice chest)

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
0.8	1.0	N	N	0.7	0.8	0.9	N	0	0.5	0.6	0.8	N	0	0	0	0.3	0.5
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
0.8	1.0	1.2	1.3	0.7	0.8	1.0	1.1	0	0.5	0.6	0.8	N	0	0	0	0.3	0.5
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

rh 408  
 13 weeks  
 (frozen 3 wks)

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
1.0	1.1	N	N	?	0.3	0.6	0.9	0	0	0	0	0	0	0	0	0	0
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1.0	1.1	1.3	1.4	?	0.3	0.6	0.9	0	0	0	0	0	0	0	0	0	0
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Forleo  
 (frozen 7 days)

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
1.0	1.2	N	N	0.7	0.7	1.0	N	0	0	0.3	0.7	Sa	0	0	0	?	?
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1.0	1.2	1.3	1.5	0.7	0.7	1.0	1.0	0	0	0.3	0.7	Sa	0	0	0	?	?
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Tyrodes  
 Control

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
1.3	1.5	N	N	1.2	1.5	N	N	1.1	1.1	1.1	1.5	N	0	0	0.3	0	0.4
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1.5	1.7	1.8	2.0	1.2	1.5	1.6	2.0	1.1	1.1	1.1	1.4	Sa	0	0	0.3	0	0.4
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

rh 409  
 13 weeks  
 (frozen 3 wks)

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
1.0	1.4	N	N	?	0.4	0.4	0.7	0	0	0	0	0	0	0	0	0	0
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1.0	1.6	1.7	1.9	?	0.4	0.4	0.7	0	0	0	0	0	0	0	0	0	0
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

rh 409  
 13 wks  
 (ice chest-21d)

1:20				1:100				1:1000				1:10000					
4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8
0.9	1.2	N	N	0.5	0.8	0.9	1.0	0	?	0.4	0.5	0.7	0	0	?	0.3	0.3
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
0.9	1.2	1.2	1.5	0.5	0.8	1.1	1.1	0	?	0.4	0.5	0.7	0	0	?	0.3	0.3
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

6-5-41 - blanching  
 6-6-41 - load

Rabbit 152  
7th Day

1:20

1:100

1:1000

1:10000

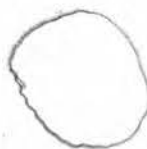
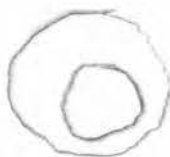
Rabbit  
135



Rabbit  
119



Typhoides



Rabbit  
137



5-29-41  
Rab 152

Serum neutralization c Homeu 80<sup>th</sup>

	20				100				1000				10000								
	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	9	
13 wks rabbit 135 (0 days)	0.8 x 0.8	1.0 x 1.0	1.2 x 1.2	N x 1.6	0.4 x 0.4	0.6 x 0.6	0.9 x 0.9	1.1 x 1.2	N	0	?	0.4 x 0.4	0.5 x 0.6	Sa	0	0	0	0	0	0	0
29 wks rabbit 119 (0 days)	1.2 x 1.2	1.2 x 1.2	1.4 x 1.4	N x 1.8	0.6 x 0.6	0.8 x 0.8	1.1 x 1.2	1.4 x 1.5	Sa	0	?	0.7 x 0.7	1.0 x 1.0	Sa	0	0	0	0	0	0	0
Tyodes Control	1.6 x 1.6	1.7 x 1.7	2.0 x 2.0	2.0 x 2.0	1.6 x 1.6	1.7 x 1.8	1.7 x 1.9	1.8 x 2.1	Sa	0.8 x 0.9	1.0 x 1.2	1.5 x 1.5	1.6 x 1.8	N	0	0	?	0	0	0	0
10 wks rabbit 137 (0 days)	1.0 x 1.0	1.2 x 1.2	1.6 x 1.6	N x 1.9	0.4 x 0.5	0.8 x 0.9	1.1 x 1.1	1.1 x 1.2	Sa	?	?	0.7 x 0.7	0.8 x 0.8	1.0 x 1.0	0	0	0	0	0	0	0

6-6-41 blanching  
6-7-41 no change  
6-10-41 - Dead

Rabbit 153  
7th Day



Rabbit 153  
6-2-41

Serum Neutralization @ Homan 8/27

	20				100					1000				10000				
	4	5	6	7	4	5	6	7	8	4	5	6	7	4	5	6	7	8
Normal mouse serum (0 days)	16 x 1.8	N x 2.0	17 x 2.2	17 x 2.3	15 x 1.5	20 x 2.0	20 x 2.0	20 x 2.2	N	06 x 0.6	1.2 x 1.0	1.3 x 1.0	15 x 1.5	?	?	0.4 x 0.4	0.9 x 0.9	1.0 x 1.0
Toxoplasma mouse serum (0 days) A113-2/24/41	1.1 x 1.4	1.3 x 1.5	N x 1.8	1.7 x 2.0	11 x 1.1	12 x 1.3	14 x 1.4	15 x 1.6	N	0.7 x 0.9	1.0 x 1.0	1.2 x 1.4	1.2 x 1.4	?	?	0.7 x 0.7	0.7 x 0.7	1.0 x 1.0
Normal human serum (0-days) I.R.	1.5 x 1.5	1.7 x 1.7	N x 1.8	1.7 x 2.0	1.3 x 1.3	1.3 x 1.5	1.3 x 1.6	1.5 x 2.0	N	?	0.8 x 0.8	1.0 x 1.0	1.1 x 1.1	?	?	?	?	0 x 0.5
Tyroses Control	1.2 x 1.2	1.5 x 1.5	N x 1.7	1.7 x 1.8	1.1 x 1.0	1.3 x 1.2	1.5 x 1.5	1.8 x 1.9	N	?	0.7 x 0.8	1.0 x 1.0	1.2 x 1.2	0	0	0	0	0
Normal rabbit serum (0 days)	1.4 x 1.2	1.6 x 1.3	N x 1.7	1.7 x 2.0	0.7 x 0.8	0.9 x 0.9	1.1 x 1.2	1.2 x 1.2	N	?	?	0.5 x 0.5	0.7 x 0.7	0	0	0	0	?
Normal rhesus serum 0 days	1.3 x 1.4	1.6 x 1.7	N x 1.8	1.8 x 2.0	1.0 x 1.0	1.2 x 1.2	1.3 x 1.3	1.7 x 1.6	N	?	0.5 x 0.5	0.8 x 0.8	1.0 x 1.1	0	0	?	0.3 x 0.3	0.3 x 0.3

normal rabbit serum - no non-specific reaction

6-9-41 - jaundice + blanching  
6-11-41 - dead

RABBIT 155



0



8



0



6-11-41

Rabbit 155

Serum neut.  $\bar{c}$  Human 82<sup>nd</sup>  
Sediment 1 hr - Incubate 1 hr.

29

	20				100				1000				10 000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 281 normal (0 days)	1.4 x 1.6	1.7 x 1.8	1.7 x 2.0	2.1 x 2.6	1.5 x 1.5	1.6 x 1.8	1.8 x 1.8	2.0 x 2.0	?	?	0.7 x 0.7	1.0 x 1.1	0	0	0	0.3 x 0.3
rh 392 normal (0 days)	1.6 x 2.1	1.7 x 2.1	1.7 x 2.3	2.0 x 2.5	1.5 x 1.9	1.6 x 2.0	2.0 x 2.0	2.0 x 2.2	?	0.9 x 0.9	1.4 x 1.4	1.4 x 1.5	0	0	0	0.2 x 0.5
rh 393 normal (0 days)	1.4 x 1.9	1.7 x 1.9	1.7 x 2.0	2.1 x 2.3	1.6 x 1.6	1.8 x 1.8	1.9 x 1.9	2.1 x 2.1	?	0.7 x 0.7	0.8 x 0.9	1.1 x 1.2	0	0	0	0.3 x 0.3
Lynx	1.7 x 1.7	1.8 x 1.8	1.8 x 1.9	1.9 x 2.1	1.7 x 1.7	1.8 x 1.8	2.0 x 2.0	2.0 x 2.0	0.8 x 0.9	1.0 x 1.0	1.1 x 1.1	1.4 x 1.6	0	0	0	?
rh 409 18 wks (0 days)	0.9 x 0.9	1.0 x 1.0	1.0 x 1.0	1.0 x 1.2	0	0.4 x 0.4	0.5 x 0.5	0.6 x 0.6	0	0	0	0	0	0	0	0
rh 410 17 wks (0 days)	1.1 x 1.1	1.1 x 1.1	1.2 x 1.2	1.2 x 1.2	?	?	?	0.3 x 0.3	0	0	0	0	0	0	0	0
rh 411 14 wks frozen 22 days	1.1 x 1.1	1.2 x 1.2	1.2 x 1.2	1.2 x 1.2	?	?	0	0.3 x 0.3	0	0	0	0	0	0	0	0

6-20-41 - Found dead

RABBIT 156

7th Day



6-11-41

Serum neut. @ Roman 82<sup>nd</sup> m. pass.

30

Rab 156

	20				100				1000				10 000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 161		N	N	N		N	N	N				N				
33 wks	1.7	1.7	1.8	2.0	1.7	1.7	1.8	2.0	0.7	1.0	1.2	1.4	0.4	0.4	0.4	0.5
@ 40C	x 1.7	x 2.0	x 2.0	x 2.4	x 1.7	x 1.8	x 1.8	x 2.2	x 0.7	x 1.0	x 1.0	x 1.2	x 0.4	x 0.4	x 0.4	x 0.5
rh 133		N	N	N				N								
32 wks	1.4	1.5	1.8	2.0	1.2	1.5	1.6	2.0	0.5	0.5	0.8	1.0	0	0	0	0
	x 1.4	x 1.5	x 1.8	x 2.2	x 1.2	x 1.5	x 1.6	x 2.0	x 0.5	x 0.5	x 0.8	x 1.0				
rh 141			N	N				N								
32 wks	1.4	1.4	1.7	2.0	0.6	1.0	1.5	1.9	0	0	0	0.5	0	0	0	0
	x 1.4	x 1.5	x 1.9	x 2.1	x 0.6	x 1.0	x 1.5	x 1.9				x 0.5				
Tyrades		N	N	N			N	N								
	1.9	1.9	2.0	2.2	1.5	1.7	1.7	1.7	1.0	1.1	1.1	1.4	0	0	0	0
	x 1.9	x 2.0	x 2.1	x 2.2	x 1.5	x 1.7	x 1.7	x 1.7	x 1.0	x 1.1	x 1.1	x 1.6				
rh 197		N	N	N		N	N	N						N		N
31 wks	1.6	1.7	1.9	2.2	0.8	0.6	0.6	1.0	0	?	?	0.5	0.5	0.5	N	0.4
	x 1.6	x 1.7	x 1.9	x 2.2	x 0.8	x 0.6	x 0.6	x 1.0				x 0.6	x 0.5	x 0.5		x 0.4
rh 201			N	N			N	N								
32 wks	2.0	2.1	2.1	2.3	1.1	1.2	1.3	1.9	?	?	0.4	0.8	0	0	0	
	x 2.0	x 2.1	x 2.1	x 2.3	x 1.1	x 1.2	x 1.3	x 1.9			x 0.4	x 0.8				

Above sera filtered thru Sutz to remove molds - To test for effect on toxoplasma.

6-20- found dead

Rabbit 157  
7th Day

20

100

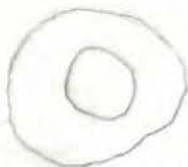
1000

10000

rh 281  
1 wk



rh 392  
1 wk



Tyr  
Control



rh 393  
1 wk



6-18-41

Serum neut. @ Homan 85<sup>th</sup>  
Sediment @ ice box 2 hours - incubate mixtures 1/2 hr. 31

Reb 157

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
rh 281 1 week (0 days)	1.0 x 1.0	1.5 x 1.5	1.6 x 1.6	N x 2.0	?	0.3 x 0.5	0.5 x 0.8	0.5 x 0.8	0	0	0	0	0	0	0	0
rh 392 1 wk (0 days)	1.4 x 1.8	N x 2.0	N x 2.1	N x 2.2	0.7 x 0.7	1.2 x 1.3	1.2 x 1.3	N x 1.8	0	0	0	0	0	0	0	0
Tyrosides Control	1.5 x 1.7	N x 2.0	N x 2.1	N x 2.2	1.4 x 1.5	2.0 x 2.0	2.2 x 2.1	N x 2.1	?	0.6 x 0.6	0.7 x 0.9	1.0 x 1.0	0	0	0	0
rh 393 1 wk (0 days)	1.6 x 1.6	N x 1.8	N x 1.9	N x 2.0	?	0.4 x 0.4	0.6 x 0.6	0.7 x 0.7	?	?	0	0	0	0	0	0

# Titration of Hemolysin

6-27-41

Shupe & Dahms. Stock = 0.1cc + 99.9% H<sub>2</sub>O 0/1:10000

Complement = pooled from 3 pigs. B. led on 12-6-40, has been frozen in ampoules.

Hemolysin	Comp; 1:10	30 min at 37°C
0.2cc 1:10000	0.2cc	+++
1:1200		+++
1:1600		+++
1:2000		+++
1:2400		+++ ←
1:3000		++
1:4000		0
1:6000		0

# Titration of Complement. — used in neutralization test

Comp. as above. Used also for serum inact. test (P.D. check)

Comp.	Then 2 units	
0.2cc 1:18	0.2cc - 1:2400	+++ <del>+++</del>
1:18	"	+++ <del>+++</del> ←
1:16	"	+++ <del>+++</del>
1:14	"	+++ <del>+++</del>
1:12	"	+++ <del>+++</del>
1:10	"	+++ <del>+++</del>
1:8	"	+++ <del>+++</del>
1:6	"	+++ <del>+++</del>

$\beta$ , Ind No 409

Foster - 0.9a of 5-20-41

0 - 4-23-41

Rabbit 159  
7th day

20

100

1000

10,000

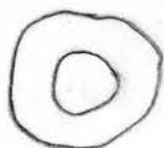
Rh 409  
abt 4 1/2 mos  
12 hrs ice



Rh 409 @ 56°C



Tyroses



Rh 409 @ 56°C  
+  
G. P. serum



G. P. serum



6-26-41

Serum react @ Home 87<sup>th</sup>

32

Rab 159

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
1 rh 409 (abt 4 1/2 mo) (12 hrs ice)	0.2 x	0.8	1.6	1.5	0.2	0.2	0.2	0.8	0	0	0	0	0	0	0	0
	0.2	0.8	1.0	1.2	0.2	0.2	0.2	1.0								
2 rh 409 @ 56°C 1/2 hr	1.3	1.3	1.3	2.1	0.6	1.0	1.2	2.0	0	0.2	0.5	1.0	0	0	0.2	0.6
	x	x	x	x	x	x	x	x		x	x	x			x	x
	1.5	1.3	1.3	1.4	0.7	1.1	1.2	1.3		0.1	0.7	1.4			0.3	1.0
			N	N												
3 Tyrodes	2.2	2.2	2.0	2.8	1.6	1.6	1.5	1.9	1.1	1.2	1.2	1.5	0.6	0.6	0.5	1.0
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	1.8	2.0	1.9	1.9	1.9	2.0	1.8	1.8	1.2	1.3	1.5	1.4	0.2	0.5	0.8	1.3
			N	N		N	N	N			N	N				
4 rh 409 inact + G.P. serum	1.2	1.3	1.5	1.5	0.5	0.8	1.0	1.5	0.5	0.5	0.5	1.0	0	0	0	0.3
	x	x	x	x	x	x	x	x	x	x	x	x				x
	1.0	1.3	1.5	2.0	0.4	0.8	1.2	1.7	0.5	0.5	0.5	1.2				0.5
		N	N	N			N	N			N	N				
5 G.P. serum	2.0	2.5	2.5	2.2	1.2	1.6	2.0	2.0	0.5	0.6	0.6	1.1	0	0	0	0
	x	x	x	x	x	x	x	x	x	x	x	x				
	2.0	2.2	2.2	1.9	1.0	1.6	1.8	1.6	1.0	0.7	0.8	1.3				
		N	N	N			N	N								

- 1 - 3 parts serum, 1 pt saline
  - 2 - " " " " " "
  - 3 - " " " " " "
  - 4 - 3 parts serum, 1 pt g.p. serum
  - 5 - 3 " saline, 1 " " " "
- } 1:1 @ loop dilution

Serum Pig Serum - complete lysis of sensitized sheep R.B.C. @ 5 dilutions of

Rabbit 158  
7<sup>th</sup> Day

20

100

1000

10,000

Rh 393 - 2 wks  
12 hrs ice



Tyroses



Rh-392 - 2 wks



Rh 281 - 2 wks





Rabbit 160  
7<sup>th</sup> Day

20

400

1000

10000

rh  
409 - 14 wks

dried  
Sperm



Tyroses



8-30-41

Serum Neut. @ Human 9/27

34

Rabbit 160 +

	4	5	20	7	4	5	6	7	4	5	6	7	4	5	6	7
(18 hrs) frozen overnight	1.2 x 1.2	1.3 x 1.4	1.7 x 1.9	2.1 x 2.0	1.3 x 1.3	1.5 x 1.5	1.9 x 1.9	1.7 x 2.0	?	?	1.0 x 1.0	1.3 x 1.3	0	0	?	0.7 x 0.9
Tyrosine Control	1.0 x 1.1	1.2 x 1.2	1.2 x 1.2	2.0 x 2.0	1.1 x 1.1	1.4 x 1.5	1.8 x 1.8	2.0 x 2.0	0.6 x 0.6	1.0 x 1.0	1.1 x 1.1	1.5 x 1.5	0	0	?	0.4 x 0.4
Rh 409 serum dried 5/16/41 (106 days)	0.9 x 1.1	1.0 x 1.1	1.1 x 1.1	1.7 x 2.0	?	0.6 x 0.6	0.9 x 0.9	1.4 x 1.6	0	0	0	0.5 x 0.5	0	0	0	0

Read down →

8-29-41 - Simpson serum - frozen overnight - tested next A.M.  
 8-30-41 - Rh 409 serum killed 5/16/41 - taken up in 0.75% H<sub>2</sub>O (106 days)  
 9-9-41 - Found dead

Purpose: [redacted] - Prolonged fever - test for Neut. Anti bodies  
 2. Rh 409 dried from frozen state - 106 days - test for stability

Rabbit T 162  
7<sup>th</sup> Day

20

100

1000

10 000

7/17/41  
Frozen 72 days



Tyrodles



IV  
(0 days)



9-24-41

Serum Neutralization  $\bar{c}$  Homan 94<sup>th</sup>

Rabbit 162

	20				100				1000				10,000							
	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8
7/17/41 72 days	N	N	N	N	N	1.1	1.2	1.3	1.5	N	0.6	0.6	0.8	N	N	?	?	?	0.3	N
	1.3	1.5	1.7	1.8	1.1	1.2	1.3	1.5	1.5	0.6	0.6	0.8	N	N	?	?	?	0.3	N	
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	1.6	1.8	2.0	2.1	1.1	1.2	1.4	1.5	1.5	0.7	0.8	0.9	1.1	N	?	?	?	0.3	N	
Syrocles	N	N	N	N	N	1.0	1.2	1.2	1.4	N	0.6	0.7	0.7	N	N	0	?	0.2	0.2	N
	1.2	1.4	1.4	1.7	1.0	1.2	1.2	1.4	1.4	0.6	0.7	0.7	1.0	N	0	?	0.2	0.2	N	
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	1.3	1.7	1.8	2.0	1.0	1.2	1.4	1.5	1.5	0.6	0.9	1.0	1.2	N	0	?	0.4	0.4	N	

0 days	0.8	?	?	N	N	?	0	0	0	0	?	0	0	0	0	?	0	0	0	0
	x			x	x															
	0.8			0.3	0.4															

serum persisted as areas of erythema  
 10-1-41 - CNS  
 10-3-41 - Found dead

Rabbit 163

	4	5	6	7	4	5	6	7	4	5	6	7	8	4	5	6	7	8		
rh. 409 dried 14 wks	0.7	1.0	1.2	1.3	N	?	0.4	0.9	1.1	N	0	0	?	?	?	0	0	0	0	
19 wks	0.7	1.0	1.2	1.6	N	?	0.4	0.9	1.2	N	0	0	?	?	?	0	0	0	0	
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Syrocles	1.8	1.8	1.8	1.9	N	1.2	1.3	1.5	1.7	N	0.5	0.6	0.7	1.2	N	0	0	0.4	0.8	1.0
	1.8	2.0	2.0	2.1	1.2	1.3	1.5	1.7	1.8	0.5	0.6	0.7	1.2	N	0	0	0.4	0.8	1.0	
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	

rh. 409-14 wks frozen	0.8	1.0	1.4	1.7	N	0	0	0.7	1.1	N	0	0	0	0	0	0	0	0	0
19 wks	0.8	1.0	1.5	1.8	N	0	0	0.7	1.1	N	0	0	0	0	0	0	0	0	0
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

10 wks serum obtained 7/17/41 - frozen 72 days when tested  
 " " " 9/24/41 - Tested same day or frozen  
 rh. 409-14 wks. Dried from frozen state, tested after 19 wks  
 " " " frozen " " " (none left)  
 10-5-41 - Found dead

Rabbit 163  
7<sup>th</sup> Day

20

100

1000

10 000

rh 409 - 14 wks  
dried 19 wks



Tyrocytes



rh 409 - 14 wks  
frozen 19 wks



Rabbit 171  
7<sup>th</sup> Day



10-7-41

Serum quant. @ Roman 97<sup>th</sup>

36

Rabbit 171

20

100

1000

10 000

10 mg Spot  
normal  
(Froz. 12 days)

			N				N									
	1.2	1.5	1.5	1.7	0.9	1.1	1.5	1.7	?	0.9	1.3	1.3	0	?	0.8	0.8
	x	x	x	x	x	x	x	x		x	x	x			x	x
	1.2	1.6	1.6	1.9	0.9	1.1	1.5	2.0		0.9	1.3	1.4			0.8	1.0

14 rods

		H	N	N			N	N				N				
	1.3	1.6	1.8	2.0	1.2	1.5	1.6	1.9	0.4	0.7	1.1	1.2	0	?	0.7	0.7
	x	x	x	x	x	x	x	x	x	x	x	x			x	x
	1.7	1.9	2.0	2.1	1.2	1.5	1.6	1.9	0.6	0.8	1.2	1.4			0.7	0.8

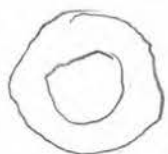
Dog 645  
normal  
(Froz. 12 days)

		N	N	N			N	N				N				
	1.6	1.8	1.9	2.0	1.0	1.2	1.5	1.6	?	0.7	0.9	1.0	0	?	0.8	0.8
	x	x	x	x	x	x	x	x		x	x	x			x	x
	1.9	2.0	2.1	2.0	1.0	1.3	1.5	1.6		0.7	1.1	1.1			0.8	0.8

9/25/41 - Dogs bled for normal serum. Frozen  
 10/7/41 - Tested after frozen for 12 days.  
 10/15/41 - Dead

Rabbit 170

7th Day  
8th Day



10-7-41

Tox-Serum neutralizations @ Human 92 37

Rabbit 170

rabbit  
Reverse

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
100g 'Spot'		N	N	N				N								
1 week	1.2	1.6	1.7	2.0	1.0	1.0	1.1	1.5			E					
7 (0 days)	1.5	1.8	1.9	2.1	1.0	1.0	1.1	1.5	N	E	E	0.4 0.8	E	E	E	E

father

frozen 3 days

	1.2	1.4	1.5	1.7	N	?	?	0.5	0.8					E	E	E	E
	1.2	1.4	1.6	1.8				0.5	0.9								

Syrodus

	1.8	N	N	N				N	N									
	1.8	1.8	1.8	2.0	1.2	1.5	1.6	1.6										
	1.9	2.0	2.1	2.0	1.2	1.5	1.6	1.6	N	0	0.7	1.4	1.5	N	0	0	E	E
											0.7	1.5	1.6					

100g 645  
1 wk  
(0 days)

	1.2	1.4	1.5	1.6	N	?		1.3	1.3					E	E	E	E	
	1.2	1.4	1.6	1.8				0.7	1.3									
								0.7	1.4	1.6								

Erythema

(1 wk)  
Serum of 2 dogs tested same day & frozen.  
father serum: Bld @ 40C for 6 hrs. Serum obtained & frozen  
frozen 3 days when tested.

10-15-41 - Sacrificed in P.M.

Syrodus photographed

Rabbit 172  
7th Day

20

100

1000

10 000



10-14-41

Serum neut. c. Homan 99

38

Rabbit 172

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	8
Spot 2 wks (1 day)	1.1 x 1.1	1.2 x 1.2	1.3 x 1.5	1.5 x 1.8	1.0 x 1.0	1.1 x 1.1	1.3 x 1.3	1.5 x 1.6	0	0	0.4 x 0.6	1.0 x 1.0	0	0	0	0.4 x 0.5	0.7 x 0.8

Typhoid	1.3 x 1.3	N x 1.8	1.7 x 1.8	1.7 x 2.0	1.2 x 1.2	1.5 x 1.5	1.5 x 1.5	1.7 x 1.8	0	0.7 x 0.7	0.8 x 0.9	1.2 x 1.5	0	0	0	?	?
---------	-----------------	---------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	---	-----------------	-----------------	-----------------	---	---	---	---	---

Dog 645 2 wks (1 day)	1.3 x 1.3	N x 1.5	N x 1.7	N x 1.9	?	1.0 x 1.0	1.5 x 1.5	1.7 x 1.7	0	?	0.5 x 0.8	0.9 x 1.1	0	0	0	?	0.3 x 0.5
-----------------------------	-----------------	---------------	---------------	---------------	---	-----------------	-----------------	-----------------	---	---	-----------------	-----------------	---	---	---	---	-----------------

Both dog sera obtained after blood @ 40c overnight.  
Frozen in A.M. & Thawed in P.M. for test.

10-15-41 - Areas of erythema where dog serum injected, None for Typhoid.

10-24-41 - Found dead

Rabbit 173  
7<sup>th</sup> Day



10-18-41

Serum - rec'd. a Human 100  
Incubated one hour

39

Feb 173

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
(0 days)	1.0 x 1.0	1.2 N x 1.3	1.3 N x 1.5	1.6 N x 1.8	0.6 x 0.6	1.0 x 1.0	1.3 x 1.3	1.6 N x 1.7	?	?	0.4 x 0.4	0.6 x 1.0	0	0	?	0.4 x 0.5

mother (Frozen 9 days) (10-9-41)	0.9 x 0.9	1.1 N x 1.2	1.2 N x 1.5	1.6 N x 2.0	0.6 x 0.6	1.0 x 1.0	1.1 x 1.1	1.5 N x 1.5	?	0.5 x 0.5	0.6 x 0.7	1.0 x 1.0	0	0	0.5 x 0.5	0.7 x 0.7
--	-----------------	----------------------	----------------------	----------------------	-----------------	-----------------	-----------------	----------------------	---	-----------------	-----------------	-----------------	---	---	-----------------	-----------------

Tyrodos	1.2 x 1.2	1.5 N x 1.5	1.7 N x 1.8	1.8 N x 2.0	0.8 x 0.8	1.2 x 1.2	1.3 x 1.3	1.5 N x 1.5	?	0.7 x 0.7	0.9 x 0.9	1.2 x 1.2	0	0	?	0.3 x 0.3
---------	-----------------	----------------------	----------------------	----------------------	-----------------	-----------------	-----------------	----------------------	---	-----------------	-----------------	-----------------	---	---	---	-----------------

(0 days) normal	1.2 x 1.2	1.4 N x 1.4	1.5 N x 1.5	1.7 N x 1.9	0.8 x 0.9	0.9 x 0.9	1.1 x 1.1	1.3 N x 1.3	0	?	0.3 x 0.4	0.8 x 0.8	0	0	?	0.4 x 0.4
--------------------	-----------------	----------------------	----------------------	----------------------	-----------------	-----------------	-----------------	----------------------	---	---	-----------------	-----------------	---	---	---	-----------------

(0 days) normal	1.3 x 1.3	1.4 N x 1.4	1.7 N x 1.7	1.8 N x 1.8	1.2 x 1.2	1.3 x 1.3	1.4 x 1.4	1.4 N x 1.4	?	0.9 x 0.9	1.0 x 1.0	1.1 x 1.1	0	0	0.6 x 0.6	0.7 x 0.7
--------------------	-----------------	----------------------	----------------------	----------------------	-----------------	-----------------	-----------------	----------------------	---	-----------------	-----------------	-----------------	---	---	-----------------	-----------------

serum obtained + tested 10-18-41  
 mother's serum - obtained 10/9/47 - frozen until tested 10/18  
 - normal human serum obtained + tested 10/18/41  
 " " " " " "

10-25-41 - Blanching lesions - Weakness  
 10-26-41 - Found dead

Rabbit 174  
7th Day



10-18-41

Serum - rabbit - C. Homan 100  
Incubated 1 1/2 hrs.

40

Rabbit 174

### Effect of Inactivation

20                      100                      1000                      10 000

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
IV 24 days																	
E	0.7 x 0.7	1.2 x 1.3	1.5 x 1.5		0	?	0.3 x 0.3	0.6 x 0.6	0	0	0	0.2 x 0.2	0	0	0	0	0

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
IV 24 days @ 56°C.	1.3 x 1.3	1.4 x 1.5	1.7 x 1.8	2.0 x 2.0	E	1.0 x 1.2	1.5 x 1.5	1.5 x 1.5	0	?	0.5 x 0.5	0.7 x 0.7	0	0	0	0	0.3 x 0.3

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
Typhoid Control	1.5 x 1.6	1.8 x 1.9	2.0 x 2.1	2.0 x 2.1	1.2 x 1.2	1.5 x 1.5	1.5 x 1.5	1.7 x 1.7	?	0.7 x 0.7	1.2 x 1.2	1.2 x 1.2	0	0	0	0	0.2 x 0.2

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
Anti tox. Ser. Hyp. imm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	
Anti tox. Ser. @ 56°C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

serum - frozen 24 days. (blood obtained 9/24/41)  
 " " " " Inactivated @ 56°C - 1/2 hr.  
 Phases hyperimmune anti tox. serum - Kept in <sup>straw</sup> ice chest  
 " " " " - @ 56°C - 1/2 hr

10-28-41 - Found dead

Rabbit 175  
7th Day





Rabbit 176  
7th Day



10-22-41

Serum neut. c. Roman 101

42

Rabbit 176



















	20				100				1000				10 000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
100g 645- (1 day) 3 wk bleeding	1.1 x 1.3	1.2 x 1.3	1.3 x 1.5	1.3 x 1.7	0.9 x 0.9	1.0 x 1.0	1.1 x 1.4	1.4 x 1.6	0.6 x 0.6	0.7 x 0.7	0.7 x 0.9	0.8 x 0.9	0	0	0.4 x 0.4	0.6 x 0.6
100g Spot (1 day) 3 wk bleeding	1.1 x 1.2	1.2 x 1.2	1.2 x 1.3	1.5 x 1.5	0.7 x 0.7	0.8 x 0.8	0.9 x 1.0	1.2 x 1.3	?	0.5 x 0.5	0.6 x 0.7	0.9 x 0.9	0	0	?	0.3 x 0.4
Tyroses	1.1 x 1.3	1.2 x 1.3	1.3 x 1.6	1.5 x 1.6	0.9 x 0.9	0.9 x 1.0	1.1 x 1.2	1.3 x 1.3	0.9 x 0.9	0.9 x 1.0	1.0 x 1.0	1.1 x 1.1	0	0	0	0.3 x 0.5
100g 'Tratten' (1 day)	1.3 x 1.3	1.3 x 1.5	1.5 x 1.6	1.6 x 1.7	0.8 x 0.8	1.1 x 1.1	1.3 x 1.3	1.3 x 1.5	0.6 x 0.6	0.8 x 0.8	1.0 x 1.2	1.1 x 1.2	0	0	0.6 x 0.6	0.6 x 0.6

Day 645- (10/21/41) Bled 3 wks after infection. Serum @ 40C overnight  
 100g Spot " " " " " " " "  
 100g 'Tratten' - "Normal" - Test for Neutralization (10-21-41) " " " "  
 (Showed Comp. fix. )

10-29-41 - Found dead in p.m

Rabbit 177

7th Day

10-23-41

Serum-neut.  $\bar{c}$  Homen 101

43

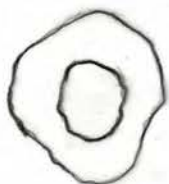
Reb 177

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
normal (1 day)	1.4 x 1.6	1.4 x 1.6	1.5 x 1.9	1.9 N x 1.9	0.8 x 0.8	1.0 x 1.2	1.2 x 1.3	1.9 x 1.9	?	0.6 x 0.6	0.7 x 0.8	1.2 x 1.3	0	0.4 x 0.4	0.5 x 0.7	0.7 x 0.9
Mother (1 day)	0.6 x 0.6	0.8 x 0.9	1.0 x 1.1	1.2 x 1.5	?	?	?	0.3 x 0.4	0	0	0	0	0	0	0	0
Tyrodles	1.5 x 1.5	1.6 x 1.6	1.6 x 1.7	1.9 N x 2.0	1.1 x 1.1	1.3 x 1.3	1.5 x 1.5	1.6 x 1.6	?	0.6 x 0.7	1.0 x 1.0	1.1 x 1.2	0	0	0.3 x 0.6	0.3 x 0.6
(0 days)	1.5 x 1.6	1.5 x 1.7	1.7 x 1.8	2.0 N x 2.0	1.0 x 1.0	1.2 x 1.3	1.5 x 1.5	1.6 x 1.6	?	1.0 x 1.0	1.3 x 1.3	1.5 x 1.5	0	?	0.5 x 0.5	0.5 x 0.7
(0 days)	1.5 x 1.5	1.5 x 1.6	1.5 x 1.6	1.8 N x 2.0	1.0 x 1.1	1.2 x 1.2	1.4 x 1.5	1.7 x 1.7	?	0.9 x 0.9	1.3 x 1.3	1.3 x 1.5	0	?	?	0.2 x 0.2 } 4x

- Serum @ 40C overnight  
 - Bled 10/22/41 - mailed - tested 10/23  
 10/23/41

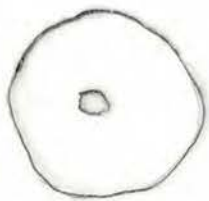
10-30-41 . Found dead in P.M.

Rabbit 178  
8th Day





Rabbit 179  
7th Day



10-29-41

Serum Neul. C. Hornan 102

45

Reb 179

20

100

1000

10000

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	8
				N				2.0			0.3	0.9					
40°C - 3 days	.2	1.3	1.7	2.2	0.7	1.1	1.3	2.0	0	0	0.3	0.9	0	0	0	0	0
	x	x	x	x	x	x	x	x			x	x					
	1.4	1.7	2.1	2.5	0.7	1.1	1.3	2.0			0.4	1.0					

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	8
40°C - 3 days	0.6	0.7	1.0	2.0	0	?	0.4	0.6	0	0	0	?	0	0	0	0	0
	x	x	x	x			x	x									
	0.6	1.0	1.2	2.0			0.4	0.8									

	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7	8
				N				2.0			0.4	0.8					
	.2	1.3	1.5	2.2	0.7	1.1	1.2	2.0	0	0	0.4	0.8	0	0	0	0	0
	x	x	x	x	x	x	x	x			x	x					
	1.3	1.6	1.7	2.3	0.7	1.1	1.2	2.0			0.6	1.0					

			N	N				1.8			0.5	0.7	1.0					
Tyrodex	1.3	1.3	1.6	2.5	1.0	1.1	1.3	1.8	?	0.5	0.7	1.0	0	0	0	0	0	
	x	x	x	x	x	x	x	x		x	x	x						
	1.3	1.6	1.6	2.5	1.0	1.2	1.4	1.9		0.6	0.8	1.0						

bled 10/26 - Serum 10/27 - @ 40°C until 10/29  
 " " " "

11-7-41 Found dead

10-29-41

Serum Neut.  $\bar{c}$  Roman 102

46













Rab 180

	20				100				1000				10000			
	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
Pup 5 0 days normal	15 x 15	16 x 17	17 x 17	22 x 22	12 x 12	13 x 13	17 x 17	23 x 23	0 x 1.1	1.1 x 1.1	1.3 x 1.3	1.4 x 1.4	0 x 0	0 x 0	0.7 x 0.7	0.8 x 0.9
Tyroses	1.6 x 1.7	1.7 x 1.7	1.8 x 1.9	2.5 x 2.6	1.3 x 1.3	1.3 x 1.3	1.6 x 1.6	2.2 x 2.2	?	0.5 x 0.7	0.7 x 1.0	1.2 x 1.5	0 x 0	0 x 0	0.3 x 0.4	0.5 x 0.5
Pup 6 0 days normal	1.6 x 1.6	1.9 x 1.9	2.1 x 2.1	2.5 x 2.5	0.9 x 0.9	1.3 x 1.3	1.7 x 1.7	2.3 x 2.3	P	0.5 x 0.6	0.8 x 1.0	1.2 x 1.4	0 x 0	0 x 0	0.4 x 0.4	0.6 x 0.6

11-9-41-

Found dead

Rabbit 180  
7th Day

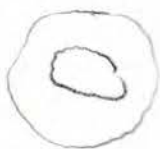
Rabbit 181  
8th Day

20

100

1000

10 000



Hem.  
Nec.

Hem.  
Nec.

Hem.  
Nec.

11-7-41

Serum - Neut. & Homan 103

Rab # 181

	20					100					1000					10000								
	X	5	6	7	8	9	X	5	6	7	8	9	X	5	6	7	8	9	X	5	6	7	8	9
[Redacted]				N	N	N					N													
	1	1.4	1.4	1.4	1.5	0.9	1.0			1.1	1.5	?				?	0.5	1.0	E	0		0.3	0.3	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1.1	1.4	1.4	1.9	1.9	0.9	1.1			1.3	1.5						0.7	1.1						

0.9	1.3	1.3	1.4	1.9	N	0.7			0.8	0.9	1.2	?	0.7	0.7	0.7			E	0		0.3		
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.0	1.4	1.4	1.5	1.9	0.8	0.8			0.9	1.2			0.7	0.7	0.8								

Tyroses

1.2	1.4	1.4	1.4	2.0	N	1.0			1.2	1.6	N	0.5	0.6	1.0	1.0	N	0	?	?	0.3	0.4		
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.2	1.4	1.4	1.6	2.0	1.0	1.3			1.4	1.7	0.5		0.8	1.1	1.1								

norma  
0 days

1.9	1.0	1.1	1.2	N	N	E	E	0.4	0.5	0.7	E	E	0	0	0	E	E	E	0	0	0
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.0	1.0	1.1	1.2					0.4	0.6	0.8											

E	0.9	1.1	N	N	E	E	E	E	N	E	E	E	E	N	E	E	E	E	E	E
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	0.9	1.1							1.0											

- tested 11/7/41  
 - tested 11/7/41  
 - 3W - tested 11/7/41  
 - 3W - tested 11/7/41  
 "Pseudo tumor" 3W

8th day read

[Redacted] showed large areas of hemorrhagic necrosis  
 of test difficult. These areas were present almost  
 at the first day and persisted. However the  
 necroses appeared larger towards the end.

11-17-41 Found dead

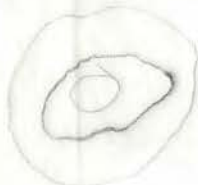
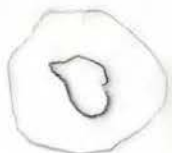
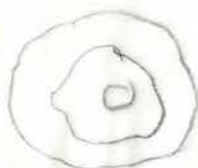
Rabbit 182  
7th Day  
8th Day

20

100

1000

10 000



11-7-41

Serum neut. @ Homan 103

48

Feb 182

20

100

1000

10 000

	* 5	6	7	8	9	* 5	6	7	8	9	* 5	6	7	8	9	* 5	6	7	8	9	
0 days	15	15	20	N	N	0.7	0.9	1.2	1.3	H	?	?	?	0.3	0.4	0.4	E	0	0	0	0
	x 15	x 15	x 20	x N	x N	x 0.7	x 0.9	x 1.2	x 1.3	x H	x ?	x ?	x ?	x 0.3	x 0.4	x 0.4	x E	x 0	x 0	x 0	x 0
	1.0	1.5	2.0	2.0	2.0	0.9	1.1	1.3	1.5					0.3	0.4	0.7					

normal 0 days

	1.2	1.8	1.8	1.9	N	N	0.6	1.4	1.5	2.0	N	N	0.3	0.5	1.1	1.1	1.2	E	0	?	0.4	0.6	1.0
	x 1.2	x 1.8	x 1.8	x 1.9	x N	x N	x 0.6	x 1.4	x 1.5	x 2.0	x N	x N	x 0.3	x 0.5	x 1.1	x 1.1	x 1.2	x E	x 0	x ?	x 0.4	x 0.6	x 1.0
	1.2	1.9	1.9	2.2			0.7	1.4	1.6	2.0			0.6	0.8	1.1	1.3	1.4				0.5	0.7	1.0

Syodes

	1.1	1.3	1.7	1.9	N	N	0.8	1.4	1.5	1.8	N	N	0.5	0.5	0.7	0.9	1.0	N	N	0	0	?	0.2	0.4	0.6
	x 1.1	x 1.3	x 1.7	x 1.9	x N	x N	x 0.8	x 1.4	x 1.5	x 1.8	x N	x N	x 0.5	x 0.5	x 0.7	x 0.9	x 1.0	x N	x N	x 0	x 0	x ?	x 0.2	x 0.4	x 0.6
	1.1	1.3	1.7	1.9			0.9	1.6	1.6	1.8			0.7	0.7	0.9	0.9	1.2						0.4	0.6	0.9

normal 0 days

	1.4	1.6	1.7	2.0	N	N	?	1.1	1.3	1.8	N	N	?	?	0.5	1.0	1.0	N	N	E	0	?	?	0.2	0.6
	x 1.4	x 1.6	x 1.7	x 2.0	x N	x N	x ?	x 1.1	x 1.3	x 1.8	x N	x N	x ?	x ?	x 0.5	x 1.0	x 1.0	x N	x N	x E	x 0	x ?	x ?	x 0.2	x 0.6
	1.5	1.7	1.8	2.1				1.2	1.4	1.9					0.7	1.1	1.1							0.6	

Dick normal 0 days

	1.8	1.9	2.0	2.3	N	N	?	1.0	1.2	1.4	N	N	0.7	0.7	0.8	1.0	1.0	N	N	E	0	0	0.3	0.4	0.6
	x 1.8	x 1.9	x 2.0	x 2.3	x N	x N	x ?	x 1.0	x 1.2	x 1.4	x N	x N	x 0.7	x 0.7	x 0.8	x 1.0	x 1.0	x N	x N	x E	x 0	x 0	x 0.3	x 0.4	x 0.6
	1.8	2.0	2.1	2.3				1.1	1.2	1.5			0.8	0.8	1.0	1.0	1.0							0.3	0.4

4E bled and tested "1/7/41  
 normal 4E - " " "  
 normal " " "  
 " " " "

11-17-41 Found dead

Rabbit 183  
7th Day  
8th Day



11-12-41

Serum, neut. & Homan 105

49

Rabbit 183

	20							100							1000							10000										
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
Dog 5 1 wks (Frozen) 1 wks	sl	sl	-	11	14	18	18	sl	sl	?	0.8	1.2	1.4	1.5	sl	sl	0	?	0.6	0.8	1.0	1.0	sl	sl	0	0	0	0.5	0.7	0.7		
				N	N	N					N	N	N	N					N	N								X	X	X		
			X	X	X	X				X	X	X	X				X	X	X	X					X	X	X	X	X	X		
			14	16	21	23				0.8	1.2	1.4	1.6				0.6	0.9	1.0	1.0					0.5	0.7	0.7	0.5	0.7	0.7		
Dog 6 (0 days) 2 wks	sl	sl	-	0.9	1.2	1.2	1.6	sl	sl	0	?	E	1.0	N	sl	sl	0	E	E	0	0.6		sl	sl	0	E	E	0	0.3			
				X	X	X	X					X	X					X	X							X	X					
			0.9	1.3	1.3	1.6						1.0	1.1					0.6								0.3			0.3			
			X	X	X	X						X	X					X								X	X		X			
			1.4	1.7	1.8	2.1						1.1	1.3	1.5	1.7					0.5	0.6	0.9	1.2	1.2					0.3	0.3		0.3
			X	X	X	X						X	X	X						X	X	X	X						X	X	X	
			1.4	1.7	1.8	2.1						1.1	1.3	1.5	1.7					0.5	0.7	0.9	1.2	1.3					0.3	0.5	0.5	
Syr.	0	?	-	1.4	1.5	1.7	1.9	0	0	-	1.1	1.3	1.5	1.7	0	0	-	0.5	0.6	0.9	1.2	1.2	0	0	0	0	0	0.3	0.3	0.3		
			X	X	X	X					X	X	X	X				X	X	X	X							X	X	X		
			1.4	1.7	1.8	2.1					1.1	1.3	1.5	1.7				0.5	0.7	0.9	1.2	1.3						0.3	0.5	0.5		
			X	X	X	X					X	X	X	X				X	X	X	X							X	X	X		
			0.8	1.1	1.3	1.9						0.5	0.9	1.5																		
			X	X	X	X						X	X	X																		
			0.8	1.1	1.3	1.9						0.5	0.9	1.5																		
Dog 645 (0 days) 6 wks	sl	sl	-	1.6	1.7	1.9	2.0	sl	sl	-	?	1.0	1.6	1.9	sl	sl	0	E	?	0.8	1.0	1.0	sl	sl	0	E	0	0	0	0		
				X	X	X	X					X	X	X						X	X	X						X	X	X		
			1.6	1.7	1.9	2.0						1.0	1.6	2.1						0.8	1.0	1.0						0.8	1.0	1.0		
			X	X	X	X						X	X	X						X	X	X						X	X	X		

11-20-41 CNS

Found dead in P.M.

Rob 187  
7th Day.



# Rabbit 187

	20	100	1000	10 000
	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
0 days	E - 1.3 1.4 1.5 1.9 x x x x 1.5 1.6 1.6 1.9 N N N	EE E 1.1 1.1 1.2 1.5 x x x x N 1.1 1.2 1.6	EE E 0 0.5 0.8 x x 0.7 0.9	EE E 0 0.8 0.8 x x 0.8 0.8
10 days	E - 1.2 1.4 1.5 1.7 x x x x 1.4 1.6 1.8 2.1 N N N	EE E 1.0 1.3 1.4 1.7 x x x x 1.0 1.3 1.4 1.7 N N N	EE E E 0.4 0.8 x x 0.6 0.8	EE E E 0.3 0.5 x x 0.5 1.0
Tyodes	o - 1.4 1.6 1.8 1.9 x x x x 1.4 1.6 1.8 2.1 N N N	o o - 1.1 1.3 1.7 2.0 x x x x 1.1 1.3 1.7 2.0 N N N	o o o ? ? 0.5 1.1 x x 0.6 1.1 N N	o o o o o ? 0.3 0.3 x x 0.5 0.7
0 days	E - 1.4 1.5 2.0 2.0 x x x x 1.4 1.5 2.0 2.1 N N N	o E E 0.9 0.9 1.3 1.6 x x x x 0.9 1.0 1.5 1.7 N N N	o E E o 0.8 1.0 x x 0.8 1.0	o E E o o 0.2 0.4 x x 0.3 0.5
0 days	E H H H H 0.7 1.1 E E E E E x x 0.8 1.1 N N	E H H H H E E O ? E E E E E N N N N N	E H H H H E E O E E E E E N N N N N	E H H E E O O O E E E E E N N N N N

40 - typical lymphocytic meningitis in involve. out of extremities. Diagnosed as Polio. sent status - suggests not polio. (previous recovery other. - Both bled & tested same day.

Enlarged liver spleen - Protracted fever. tested same day as bled

Enlarged liver-spleen & kidney? Persistent fever Possible Glycogen Disease. Tested day bled Serum cloudy

11-22-41 - C.N.S.  
11-23-41 Dead

Rabbit 188  
7th Day

20

100

1000

10 000



11-17-41

Serum reult. @ Homaw 105  
Sediment 1 1/2 hrs. Incubate 1 hr.

Rabbit 188

	20									100								1000								10000													
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
[Redacted]				N	N	N	N						N	N	N								N	N	N														
Froz. 4 days	0	S	L	x	x	x	x	x		0	S	L	E	x	x	x	x	Sa	0	S	L	E	?	0.7	1.0	1.0	1.0	0	S	L	E	E	?	0.3	0.4	0.7			
				1.3	1.5	1.7	1.7						1.2	1.3	1.4	1.6							0.8	1.1	1.7	1.7					0.5	0.7	1.0						
				x	x	x	x						x	x	x	x							x	x	x	x					x	x	x						
				1.5	1.8	2.1	2.3						1.2	1.3	1.4	1.8							0.8	1.1	1.7	1.7					0.5	0.7	1.0						
[Redacted]				N	N	N							E	E	0.4	0.8	1.0						E	E	0.7	0.3	0.4					E	E	0.0	0.0				
0 days				0.4	1.0	1.1	1.3	1.5					0.5	0.8	1.2								0.5	0.8	1.2						0.5	0.6							
				x	x	x	x	x					x	x	x	x							x	x	x	x					x	x	x						
				1.0	1.2	1.5	1.8						0.5	0.8	1.2								0.5	0.8	1.2						0.5	0.6							
Gyrodex	?	?		N	N	N	N					?	N	N	N								?	0.9	1.1	1.2	1.5					?	0.4	0.5	1.0				
				x	x	x	x						x	x	x	x	Sa						x	x	x	x					x	x	x						
				1.4	1.8	1.9	2.0						1.1	1.5	1.7	2.0							0.9	1.1	1.2	1.5					0.4	0.5	1.0						
				x	x	x	x						x	x	x	x							x	x	x	x					x	x	x						
				1.4	1.8	1.9	2.0						1.1	1.5	1.7	2.0							0.9	1.1	1.2	1.5					0.4	0.5	1.0						
[Redacted]				N	N								E	E	E	E	0.7	0.7	0.7					E	E	E	E	0.0	0.0					E	E	E	E	0.0	0.0
0 days				0.8	1.1	1.5	1.5						0.7	0.7	0.7								0.7	0.8	1.0						0.7	0.8	1.0						
				x	x	x	x						x	x	x	x							x	x	x	x					x	x	x						
				0.8	1.1	1.5	1.5						0.7	0.7	0.7								0.7	0.8	1.0						0.7	0.8	1.0						
[Redacted]				N									E	E	E	E	0.3	0.7						E	E	E	E	0.0	0.0					E	E	E	E	0.0	0.0
Froz. 10 days				0.9	1.2	1.3							0.3	0.7									0.3	0.7							0.3	0.7							
				x	x	x							x	x									x	x							x	x							
				0.9	1.2	1.3							0.3	0.7									0.3	0.7							0.3	0.7							

of house) - Infant Ward - Ch. Hoop.  
 11/13. frozen 4 days.  
 - Bled & tested same day  
 possible brain tumor - Bled & tested 11/17  
 - Bled 11/7/41. tested, frozen 10 days - tested 11/17

11-26-41 - Weed

Rabbit 189  
8<sup>th</sup> Day



11-17-41

Homard 105

52

Rabbit 189

20

100

1000

10 000

1 2 3 4 5 6 7 8 9 | 1 2 3 4 5 6 7 8 9 | 1 2 3 4 5 6 7 8 9 | 1 2 3 4 5 6 7 8 9

3 w / I  
Froze - 10 days

S S4 sl ? 0.9 1.0 1.2 1.6 x x x x 1.2 1.3 1.5 2.0	S S4 sl 0 0 0 ? 0.5 0.7 1.0 x x x 0.5 1.0 1.3	S S4 sl 0 0 0 0 0 0 0.3 x 0.3	S S4 sl 0 0 0 0 0 0 0 0
---	---	-------------------------------------	-------------------------

0 days

S S4 sl ? 0.9 1.0 1.2 1.8 x x x x 1.0 1.2 1.4 2.0	S S4 sl 0 0 0 0.5 1.0 1.0 x x x 0.5 1.1 1.2	S S4 sl 0 0 0 ? 0.5 0.5 x x 0.5 0.5	S S4 sl 0 0 0 0 0 0 0 0
---	---	---	-------------------------

Tyrodex

? S4 x 0.6 1.1 1.4 1.5 1.6 2.0 x x x x x 0.9 1.2 1.9 2.0 2.2 2.2	0 0 ? 0.6 1.1 1.2 1.6 x x x x 0.7 1.2 1.3 1.6 1.9	0 0 0 0 ? ? 0.8 1.0 x x 1.0 1.0	0 0 0 0 0 0.3 0.3 0.5 x x x 0.5 0.6 0.9
--	---	---------------------------------------	---

1 day  
froz. 10 days

S S4 E 1.3 1.5 1.4 1.6 1.6 x x x x x 1.3 1.8 1.8 1.9 2.1	S S4 sl sl E 0.5 1.0 1.0 x x x 0.6 1.1 1.1	S S4 sl sl E ? 0.5 0.6 0.6 x x x 0.5 0.6 0.6	S S4 E E E 0.3 0.3 0.3 x x x 0.5 0.5 0.8
--	--	--	--

froz. 10 days

S E E E 1.2 1.2 1.4 1.5 x x x x 1.2 1.2 1.4 1.5	S E E sl E E ? 0.6 1.0 x x 0.9 1.2	S E E sl E E 0 0 0 0	S E E E E E 0 0 0 0
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S = Scrump  
E = Erythema  
Sl = Slight erythema

11-30-41 - Dead

Rabbit 192  
8th Day



11-24-41

Serum neut. agglutination in Homard 106

53

Rabbit 192

	20	100	1000	10000
	2 3 4 5 6 7 8 9 H H H H N N N N H H H H 1.5 1.5 1.7 1.9 E E E E 1.5 1.5 1.7 1.9	2 3 4 5 6 7 8 9 H H H H ? N N E E E E .0.6 1.3 1.5 .0.8 1.3 1.5	2 3 4 5 6 7 8 9 H H H H H H 0.6 0.8 E E E E E E x x 0.7 1.0 Not.	2 3 4 5 6 7 8 9 H H H H H H H H E E E E E E E E
Froz. 11 days.			Difficult interpretation	
	H H H H N N N E E E E 1.2 1.3 1.3 1.4 x x x x 1.2 1.3 1.5 1.5	H H H H H H N N E E E E E E .0.9 1.0 1.0 x 1.0	H H H H H H 0.6 E E E E E E x x 0.8 Not.	H H H H H H 0.6 E E E E E E x x 0.6 flat

Froz. 12 days.

Tyroses

? 0.7 1.5 1.7 1.7 1.7 1.7 Sa x x x x x x 0.7 1.5 1.7 1.8 1.8 1.8	0 ? 1.3 1.5 1.6 1.6 1.7 Sa x x x x x x 1.3 1.5 1.6 1.6 1.7	0 0 ? ? 0.5 0.7 1.0 Sa x x x x x x 0.8 1.0 1.2	0 0 0 0 ? 0.3 0.4 0.5 x x x x x x 0.3 0.4 0.5
--	--	--	---

0 days

H H H E E N N N E E E E x x x 1.1 1.4 1.5	H H H E E N N N E E E E .0.7 0.7 0.9 x x x 0.7 0.8 1.1	H H H E E S S O E E E E E S S O	H H H E E S S O E E E E E S S O
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Froz. 12 days

E S S O .0.7 1.0 1.1 1.3 1.4 x x x x x 0.7 1.0 1.1 1.3 1.4	E E S S O .0.6 0.9 1.0 1.0 x x x x x 0.6 0.9 1.0 1.2	E E S S O O O O O O	E E S S O O O O O O
--	--	---------------------	---------------------

- Gen. Hosp. - Serum obtained & frozen 11/13/41 - tested 11/24

inf. Ward - Enlarged liver, spl. etc. - Serum retested after 12 days. Serum cloudy.

tested & frozen 11-24-41

retested after frozen 12 days.

8th day reading. Perivascular necrotic lesions at 1:10000 of Haskins & haughlin. made interpretation difficult since no way of telling when serum lesions & toxop lesions

12-6-41 - Dead -

nodules 1:1000 like Tyroses  
1:10000 Hem. + nec.

Rabbit 201

8th Day



11-28-41

Rab 201

[Redacted]	4 5 6 7 8 N N N N 1.3 1.4 1.6 1.7 1.9 x x x x x 1.6 1.8 1.8 2.0 2.1	4 5 6 7 8 N N N 1.0 1.1 1.2 1.3 1.6 x x x x x 1.0 1.1 1.2 1.3 1.7	4 5 6 7 8 N N 0.4 0.6 0.6 0.6 1.0 x x x x x 0.4 0.6 0.6 0.6 1.1	4 5 6 7 8 0 0 0 0 0
0 days	N N N N 1.3 1.4 1.4 1.4 1.8 x x x x x 1.5 1.7 1.7 1.8 2.0	N N ? 0.8 1.0 1.1 1.4 x x x x x 0.8 1.0 1.1 1.4	? ? 0.3 0.5 0.9 x x x x x 0.3 0.7 1.0	0 0 0 ? 0.3 0.3
0 days	N ? 0.6 0.6 0.9 x x x x 0.6 0.6 0.9	0 0 0 0 0	0 0 0 0 0	H H S 40 E E 1.0 0.6 1.0 0.6
thawed @ 10d thawed @ 21d	N N 1.0 1.0 1.0 1.1 x x x x x 1.0 1.0 1.0 1.0 1.2	0 0 ? ? ?	0 0 0 0 0	H H S 40 E E 1.0 0.6 1.0 0.6
1 day froz. 10 days thawed @ 21d	N N N N 1.6 1.6 1.6 1.7 x x x x x 1.4 1.6 1.6 1.8 1.8	N N ? 0.7 0.9 1.0 1.2 x x x x x 0.7 0.9 1.0 1.2	0 0 0 0 0.7 0.8	0 0 0 0

2 Gen. Hoop. - Rt axillary adenopathy - 11-28-41  
 2 Gen Hoop - Tuberculosis 11-28-41  
 bled 11/7/41 - thawed + tested 11/17/41 (10 days froz) - again 11-28-41  
 bled 11/6/41 " " " "

1st day - Serum  
 2nd day - Serum more marked


12-6 - Found dead - lesions drawn

Rabbit 193

8th Day

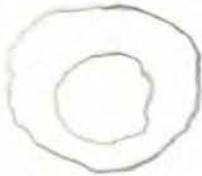


Rabbit 204  
7th Day



Rabbit 205  
7th Day



12-5-41

Stamen. 109

57

Reb 205

froz. 11 days	$\begin{matrix} 2 & 3 & 4 & 5 & 7 \\ E & E & & & N \\ & \times & & & 25 \\ & 0.8 & & & \times \\ & 0.9 & & & 25 \end{matrix}$	$\begin{matrix} 2 & 3 & 4 & 5 & 7 & 8 \\ E & E & & & & N \\ & \times & & & & 0.909 \\ & & & & & \times \\ & & & & & 0.959 \end{matrix}$	$\begin{matrix} 2 & 3 & 4 & 5 & 7 & 8 \\ E & E & & & & N \\ & \times & & & & 0.204 \\ & & & & & \times \\ & & & & & 0.204 \end{matrix}$	$\begin{matrix} 2 & 3 & 4 & 5 & 7 & 8 \\ E & E & & & & N \\ & \times & & & & 0.0 \\ & & & & & \times \\ & & & & & 0.0 \end{matrix}$
froz. 1 day	$\begin{matrix} H & H & & & N \\ E & E & & & 22 \\ & \times & & & \times \\ & & & & 22 \end{matrix}$	$\begin{matrix} H & H & E & & & N \\ E & E & E & & & 0.5? \\ & \times & & & & \times \\ & & & & & 0.5 \end{matrix}$	$\begin{matrix} H & H & E & & & N \\ E & E & E & & & 0.0 \\ & \times & & & & \times \\ & & & & & 0.0 \end{matrix}$	$\begin{matrix} H & H & E & & & N \\ E & E & E & & & 0.0 \\ & \times & & & & \times \\ & & & & & 0.0 \end{matrix}$
froz. 1 day	$\begin{matrix} E & E & & & N \\ & \times & & & 25 \\ & 1.5 & & & \times \\ & 1.5 & & & 25 \end{matrix}$	$\begin{matrix} E & E & & & N \\ & \times & & & 2.020 \\ & & & & \times \\ & & & & 2.121 \end{matrix}$	$\begin{matrix} E & E & E & & N \\ & \times & & & 1.517 \\ & & & & \times \\ & & & & 1.517 \end{matrix}$	$\begin{matrix} E & E & E & & N \\ & \times & & & 0.507 \\ & & & & \times \\ & & & & 0.811 \end{matrix}$
Synodes	$\begin{matrix} 1.018 & & & & N \\ \times & & & & 22 \\ 1.018 & & & & \times \\ & & & & 22 \end{matrix}$	$\begin{matrix} ? & 1.3 & & & N \\ \times & & & & 2.020 \\ 1.3 & & & & \times \\ & & & & 2.020 \end{matrix}$	$\begin{matrix} 0 & 0 & ? & & N \\ & & & & 1.515 \\ & & & & \times \\ & & & & 1.717 \end{matrix}$	$\begin{matrix} 0 & 0 & ? & & N \\ & & & & 1.012 \\ & & & & \times \\ & & & & 1.012 \end{matrix}$
froz. 23 days thawed 2x	$\begin{matrix} H & H & H & & N \\ E & E & E & & 2.0 \\ & \times & & & \times \\ & & & & 2.0 \end{matrix}$	$\begin{matrix} H & H & H & & N \\ E & E & E & & 1.515 \\ & \times & & & \times \\ & & & & 1.515 \end{matrix}$	$\begin{matrix} H & H & H & & N \\ E & E & E & & ? \\ & \times & & & \times \\ & & & & 0 \end{matrix}$	$\begin{matrix} H & H & H & & N \\ E & E & E & & 2.0 \\ & \times & & & \times \\ & & & & 0 \end{matrix}$
froz. 7 days	$\begin{matrix} E & E & & & N \\ & \times & & & 2.0 \\ & & & & \times \\ & & & & 1.5 \end{matrix}$	$\begin{matrix} E & E & E & & N \\ & \times & & & 1.010 \\ & & & & \times \\ & & & & 1.010 \end{matrix}$	$\begin{matrix} E & H & H & & N \\ E & E & E & & ? \\ & \times & & & \times \\ & & & & 0 \end{matrix}$	$\begin{matrix} E & H & H & & N \\ E & E & E & & 2.0 \\ & \times & & & \times \\ & & & & 0 \end{matrix}$

Sabin - bled 11-24-41 - Thawed + retested 12-5-41

bled 11-28-41 - Thawed + retested 12-5-41

4E (Dr. Tepper) - bled + tested 12-3-41  
Cerebral Atrophy

froz. 12 days + thawed retested  
froz. 23 days + " " "

Retested after frozen 7 days

Serum very cloudy

12-15-41 Dead

Rabbit 208  
7th Day

12-12-41

Human 110  
room temp. about 1 hr.

Rabbit 208

	20	100	1000	10000
	4 6789 N N N N	4 6789 N	4 6789 N N	4 6789
	0 1819 x	? 1.01620 x x x	0 ? 0607 x x	0 0030406 x x x
1 day	10 2.024 x	1.01620	0911	0.30506

rat 1 month 1 day	? 0.819 x x 0.819	0 ? 091013 x x x 091213	0 00 ? 03 x 03	0 0000
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Tyroides	17 1923 x x 19 2.224	0.9 171920 x x x 0.9 1.71920	? 07 1112 x x 08 1.213	0 ? 030405 x x x 030405
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6 d. frog	0.8 1.823 x x 2.023	? 1.01518 x x x 1.01719	0 ? 040607 x x 0.50707	0 0000
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0 days	1.1 2.023 x x 1.1 2.023	E 1.61618 x x x 1.51818	E E 0914 x x 1.015	E E 0608 x x 0608
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t - II - bled 12/11/41 - tested 12/12 - Ox. adenopathy  
 1 mo. after i-Perit. - bled 12-11-41, tested 12-12-41  
 # N.Y. Hospital.  
 kept in milk, 6 days frozen  
 Gen. Hosp. - Suspected L.C.M. - tested day bled.  
 (Dr. Harris)  
 12-22-41 Dead

Rab 215

Tox Neut c Homan 11/8/41

59

12-16-41

Discolored Resistant

	45	789	45	789	45	789	45	789
		N H N		N N		N		
	1.0	1.4 1.5 1.6	0 0	1.0 1.2 1.6	0 0	7.0 5.9	0 0	0 0 0
	x	x x x		x x x		x x x		
	1.0	1.7 2.0		1.0 1.2 1.6		0.5 0.9		

Goat serum	1.0	N H N	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0
	x x	1.5 1.6 1.6						
	0.8 1.0	x x x						
		1.7 1.8 2.0						

10 d. frozen	1.0 1.1	N H N	0 0	N N	0 0	0 0 0	0 0	0 0 0
	x x	1.5 1.6 1.7		0.8 1.0 1.7				
	1.0 1.1	x x x		x x x				
		1.5 1.7		0.9 1.0 1.7				

	1.0 1.2	N H N	0 0	N N	0 0	0 0 0	0 0	0 0 0
	x x	1.5 1.5 1.5		0.9 1.1 1.2		0.9		
	1.0 1.2	x x x		x x x		0.9		
		1.5 1.5 1.5		0.9 1.1 1.4				

Synal	1.2 1.7 1.8	N H N N	7 0 7	N N	0 0	0 0 1.0	0 0	0 0 0
	x x x	1.9 2.0 2.0	x	1.1 1.2 1.4		1.0		
	1.2 1.7	x x x	0 7	x x x				
		1.9 2.0 2.0		1.1 1.2 1.4				

Horse serum - hyovac - Resuspended & used immediately.

Goat serum - Kept @ 40C

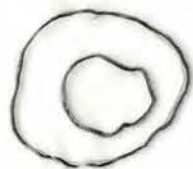
[redacted] - 2 days - 10 days frozen - (thawed)

Engne [redacted] - K2 Gen Hosp. 19 yr 8 (Mr. Pariter)

Rabbit skin scarred & discolored - hence readings not clear

12-27- Dead.

Rabbit 216  
7<sup>th</sup> Day



12-20-41

Toy neut. C. Homan 112

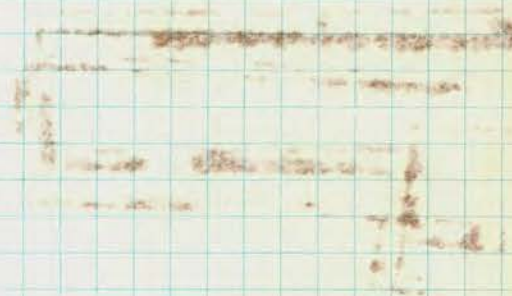
60

Rabbit 216

<p>2 days</p>	<p>4 7 8 9 N N N N 3 2.1 2.1 x x x 3 2.1 2.5</p>	<p>4 7 8 9 N N N 0.4 1.9 2.0 2.0 x x x x 0.4 1.9 2.0 2.0</p>	<p>4 7 8 9 N N N 0 1.0 1.2 1.2 x x x 1.0 1.2 1.4</p>	<p>4 7 8 9 N 0 0.4 0.6 0.5 x x x 0.5 0.8 1.1</p>
<p>2 days</p>	<p>N N N 0 1.5 1.5 x x 1.4 1.5</p>	<p>N 0 0.4 0.7 1.0 x x x 0.6 0.8 1.0</p>	<p>E 0 0 0</p>	<p>E 0 0 0</p>
<p>2 days</p>	<p>N 0 1.0 1.0 x x 1.0 1.0</p>	<p>0 2.0 5.0 7 x x 0.5 0.8</p>	<p>0 0 0 0</p>	<p>0 0 0 0</p>
<p></p>	<p>N N N 1.8 2.2 2.3 x x 1.8 2.3 2.3</p>	<p>N N N 0.8 1.8 1.9 2.0 x x x x 0.8 1.8 1.9 2.0</p>	<p>N N 0 1.0 1.1 1.5 x x x 1.0 1.3 1.5</p>	<p>N 0 0.4 0.6 0.8 x x x 0.4 0.6 0.8</p>

Chicago - Bleeding II. Bled 12-18-41  
 4 yrs old. tested 12-20-41 - 2 days at room + 1 day @ 40C  
 2nd bleeding - tested 2 days later.  
 1st bleeding @ 12-18-41

1-1-42 - Dead



12-20-41

Tot neut. @ Roman 112

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Rabbit 217

Rabbit 217

7th Day

Pup 6  
7 wks  
1 day

4	789	4	789	4	789	4	789
0.6	N N N	0	N N N	0	N	0	0 0 0
x	1.5	0	1.2 1.2	0	0.4 0.4 0.6	0	0.3
0.6	1.5	x	x x	0.6	0.6 1.0	x	0.3
		x	1.2 1.2				

[Redacted]

N N N	N N N	N N N	0.3 0.5 0.5
2.0	0.5 1.6 1.6	0 1.0 1.0 1.0	0 0.3 0.5 0.5
x	x x	x x x	x x x
2.0	0.5 1.6 1.6	1.0 1.0 1.0	0.3 0.5 0.5

[Redacted]

N N N	N N N	N N N	0.4 0.6 0.6
1.9	0 1.5 1.6	0 1.1 1.1 1.3	0 0.6 0.7 0.7
x	x x	x x x	x x x
1.9	1.5 1.6	1.1 1.1 1.3	0.6 0.7 0.7

Syringes

N N N	N N N	N N	0.5 0.7 1.0
1.3 2.2	0.9 1.8 1.9	0 1.2 1.4 1.5	0 0.5 0.7 1.0
x	x x	x x x	x x x
1.3 2.2	0.9 1.9 1.9	1.6 1.6 1.5	0.7 1.0 1.0

Wks after infection - Serum 1 day @ 40c  
 First bleeding - Chicago - 1 day mail  
 1 day @ 40c  
 "old" - 7 "under picture" of old inflammation  
 and dead



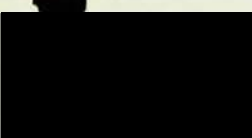

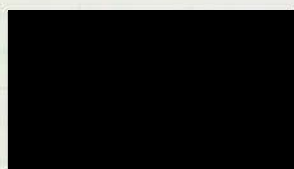
12-23-41

Tox vent. - 113<sup>th</sup>

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Rab 218

# Resistant Rabbit

	4	6	4	6	4	6	4	6
 0 days	1.0 x 1.0	0.4 x 0.7	0	0	0		0	
 0 days	0.9 x 0.9	0.4 x 0.4	?	0	0		0	
 0 days		0.5 x 0.5	?	0	0		0	
1 yr old	0.8 x 0.8	0.6 x 0.6	?	0	0		0	

l. Hoop. - Post-encephalitis (measles)  
 ago. Bled & tested 12-23-41 (Zucker)



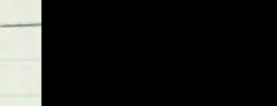

l. Hoop. - Hemiparesis since 3 mo. old.  
 tested 12-23-41

? Schilders' dis. (Zucker)  
 tested 12-23-41

Rabbit 219  
7th Day



# Rabbit 219

 fz. 7 days	4 5 6 7 H H H 1.0 1.3 1.6 1.8 x x x x 1.0 1.3 1.6 2.0	4 5 6 7 H H ? 0.7 1.0 1.6 x x x 0.7 1.0 1.6	4 5 6 7 8 H H 0 0 0.5 0.9 1.2 x x x 0.5 0.9 1.2	4 5 6 7 8 0 0 0 0 ?
	H H 8 12 17 x x x x 0.5 0.8 1.2 1.7	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
 17d. froz.	H H H 0 11 14 17 x x x x 1.0 1.1 1.4 1.8	H H H 0.7 1.0 H E x x x 0.7 1.0 1.1	H 0 ? 0.5 0.7 x x x E 0.7 0.8	H E 0 ? 0.3 x 0.3
 froz. 7 days	H H H 1.0 1.3 1.6 1.9 x x x x 1.0 1.3 1.6 1.9	H H 0.6 0.9 1.1 1.3 x x x x 0.7 0.9 1.1 1.5	H 0 ? 0.4 0.6 0.9 x x x 0.4 0.6 0.9	0 0 0 ? 0.5 x 0.5
Synovial	H H H 1.3 1.5 1.8 1.9 x x x x 1.3 1.5 1.8 1.9	H H H 1.0 1.2 1.4 1.8 x x x x 1.0 1.2 1.4 1.8	H H H 0 ? 0.6 0.7 1.2 x x x 0.6 0.7 1.2	0 0 ? ? 0.4 x 0.5

no serum - hyovac - in solution or frozen when tested.

kept @ 4°C - Bled 11-27-41

7.4. hospital. 2 days  
10 days froz.  
7 days froz - all used.

K2 Gen Hosp. (20 v. counter) - 19 yr ♂  
frozen 7 days

1-3-42 Dead