

TABLE 8. SHOWING BLOOD STUDIES ON RABBIT NO. 2

Day	1	2	3*	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Erythrocytes (in millions).....	4.885	5.395	5.09	5.38	5.21	5.38	5.26	5.21	4.92	4.91	5.02	4.66	5.14	5.23	5.94	6.28	5.2	6.23	6.05				5.73		
Leukocytes (in thousands)...	5.25	4.75	5.0	6.5	7.0	5.5	5.0	10.0	6.0	5.5	5.0	5.0	9.5	8.0	7.0	7.5	12.0	13.0	14.0	5.5	9.0	7.5	7.5	5.5	6.5
Percent																									
Lymphocytes.....	61	65	62	39	56	65	49	55	73	75	72	68	60	49	64	68	62	65	60	64	44	53	60	60	62
Percent																									
Monocytes.....	5	8	8	4	6	9	6	11	12	6	6	4	7	3	7	4	3	5	2	4	7	4	5	1	4
Percent																									
Neutrophiles.....	32	26	29	55	36	24	41	32	14	18	21	26	32	47	28	24	31	25	33	28	46	38	33	34	32
Percent																									
Eosinophiles.....	2	1	1	2	2	2	4	2	1	1	1	2	1	1	0	2	3	4	2	6	3	4	1	2	1
Percent																									
Basophiles.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	3	1	0	1	1	3	1
Percent																									

Day	26†	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Erythrocytes (in millions).....	6.54		6.20			5.97				5.16			5.19			5.31				5.08					
Leukocytes (in thousands)...	13.0	16.5	4.0	5.0	8.0	7.0	7.5	10.5	7.5	9.0	9.0	4.0	12.5	5.5	5.5	8.5	12.0	7.5	8.5	7.5	4.5	7.0	5.0	6.0	5.5
Percent																									
Lymphocytes.....	54	55	52	59	60	62	65	59	64	48	61	59	65	68	59	67	51	57	59	57	60	74	76	68	74
Percent																									
Monocytes.....	5	4	2	4	2	3	3	4	5	10	5	6	5	3	6	6	2	7	4	5	5	6	3	12	4
Percent																									
Neutrophiles.....	38	37	42	34	37	35	30	32	32	38	31	35	27	28	32	25	43	34	29	43	31	19	20	18	20
Percent																									
Eosinophiles.....	1	4	2	2	1	0	2	4	2	2	3	0	3	1	3	2	4	2	5	4	3	1	1	2	2
Percent																									
Basophiles.....	3	0	2	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0
Percent																									

Day	51	52	53	54	55	56	57	58	59	60	61	62	63	64Z	65	66	67	68	69	70	71	72	73	266Y	
Erythrocytes (in millions).....			6.06																						
Leukocytes (in thousands)...	5.8	5.5	11.0	5.5					5.04															4.95	
Percent																								6.5	
Lymphocytes.....	83	53	45	63	43	65	50	58	47	48	59	50	53	45	50	47	46	47	49	55			50	48	
Percent																								5	6
Monocytes.....	2	5	10	4	5	2	3	4	2	2	4	5	7	5	3	3	2	3	5	7			5	6	
Percent																								18	40
Neutrophiles.....	15	37	30	30	37	21	33	26	34	26	22	30	27	29	27	25	31	33	17	18			22	5	
Percent																								22	5
Eosinophiles.....	0	1	7	3	12	9	12	11	15	22	15	13	12	19	17	19	20	17	22	11			5	1	
Percent																								5	1
Basophiles.....	0	4	0	0	3	3	2	1	2	2	0	2	1	2	3	6	1	0	7	1			5	1	
Percent																								5	1

Inoculated + Reincubated

Y Reticulocytes. 1.8 per cent

Z Polychromatophilia

> Sia test for euglobulin negative

* Inoculated + Reinoculated Y Reticulocytes. 1.8 per cent Z Polychromatophilla > Sia test for euglobulin negative

TABLE 4. SHOWING BLOOD STUDIES ON RABBIT No. 3

Day	1	2	3*	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Erythrocytes (in millions).....	5.45	5.835	5.45	5.69	5.58	5.72	5.28	5.12	5.16	5.29	4.99	5.26	5.16	6.0	6.1	6.15	5.68	5.52	6.25	.....	5.42	.....	.....	.....	.....
Leukocytes (in thousands)...	7.25	4.5	5.5	10.0	7.5	8.0	11.0	9.5	5.5	4.5	4.5	4.5	4.5	4.5	7.0	6.0	12.0	6.9	5.5	8.0	11.5	9.0	6.0	7.5	6.0
Percent	56	64	50	54	41	48	51	54	70	57	61	64	59	62	51	59	60	60	71	64	64	66	58	69	60
Lymphocytes.....	9	7	7	6	6	11	11	10	4	4	5	5	3	4	2	3	4	3	2	3	4	2	4	2	5
Monocytes.....	33	28	31	36	46	38	32	34	24	37	30	29	34	32	36	33	30	33	22	26	26	28	30	23	29
Neutrophiles.....	1	1	2	3	6	2	4	2	2	2	3	2	3	2	8	5	5	3	5	6	5	4	7	5	4
Eosinophiles.....	1	0	0	1	1	1	1	0	0	0	1	0	1	0	0	0	1	1	0	1	1	0	1	1	2
Basophiles.....																									

Day	26	27	28	29	30	31
Erythrocytes (in millions).....	6.05	.....	.....	5.9	.....	.....
Leukocytes (in thousands)...	10.5	7.0	6.5	7.5	6.5	6.5
Percent	62	60	56	66	67	57
Lymphocytes.....	6	5	8	3	5	4
Monocytes.....	26	31	32	27	24	32
Neutrophiles.....	4	2	2	2	3	5
Eosinophiles.....	2	2	2	2	1	2
Basophiles.....						

* Inoculated

TABLE 5. SHOWING RESULTS OF BLOOD STUDIES ON RABBIT NO. 4

Day	1	2	3	4	5	6*	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Erythrocytes (in millions).....	5.565	6.14	6.02	5.87	5.88	5.80	6.19	6.11	6.24	6.47	6.58	6.32	5.89	6.45	6.6	6.47	6.47	6.35			6.15				6.44
Leukocytes (in thousands)...	5.75	8.0	7.0	8.0	7.0	9.0	7.5	9.0	6.0	7.0	5.0	4.5	4.0	7.0	7.0	9.5	5.5	9.5	8.0	4.5	8.0	5.5	4.0	7.0	5.0
Percent																									
Lymphocytes.....	67	68	60	66	69	59	56	31	64	74	67	66	62	72	61	67	59	65	52	61	68	58	65	58	59
Monocytes.....	9	8	6	10	6	10	8	10	4	4	3	4	9	3	2	4	3	4	3	5	2	2	4	3	5
Neutrophils.....	23	22	31	23	23	30	32	51	27	18	30	27	22	21	35	25	32	29	41	31	24	35	24	35	29
Eosinophiles.....	1	1	2	0	2	1	3	7	5	4	0	3	5	4	2	3	3	2	2	2	5	4	4	4	6
Basophiles.....	0	1	1	1	0	0	1	1	0	0	6	0	2	0	0	1	3	0	2	1	1	1	3	0	1

Day	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Erythrocytes (in millions).....			6.58			6.8				5.85			5.61			5.07				5.41					
Leukocytes (in thousands)...	7.0	8.0	4.5	8.5	9.5	11.0	11.0	8.5	8.0	12.5	13.5	10.0	7.5	7.0	8.5	5.0	7.5	9.5	7.0	5.0	5.0	6.5	5.5	9.5	10.0
Percent																									
Lymphocytes.....	39	57	54	55	63	56	55	41	48	56	49	58	63	63	63	59	62	57	60	59	55	74	69	63	64
Monocytes.....	5	5	4	2	5	4	3	3	2	3	6	3	5	5	8	10	9	5	7	7	4	4	6	10	4
Neutrophils.....	47	25	34	39	28	35	39	54	47	32	42	35	25	26	25	23	23	31	16	15	22	13	17	16	10
Eosinophiles.....	5	8	3	3	1	3	2	1	2	7	2	0	5	4	2	6	2	5	14	15	18	8	8	11	22
Basophiles.....	1	4	2	2	2	2	1	1	1	2	1	0	2	2	2	2	4	2	2	4	1	1	0	0	0

* Inoculated
 > Sia test for euglobulin negative
 † Sia test for euglobulin ±
 ‡ Reticulocytes, 5.4 per cent

Day	51	52	53	54†	55	56	57	58	59	60	61	62	63	64	65Y
Erythrocytes (in millions).....					5.13									6.49	
Leukocytes (in thousands)...	10.0	10.5	10.5	8.0	14.5	7.0					5.37			9.0	
Percent											8.0			43	41
Lymphocytes.....	60	57	56	51	45	30	43	38	45	37	39	49	40	2	2
Monocytes.....	10	10	6	4	2	6	4	4	4	4	2	2	0	2	2
Neutrophils.....	13	12	10	14	14	22	15	17	18	15	18	11	18	17	15
Eosinophiles.....	17	21	28	29	37	41	37	40	31	44	41	37	41	38	41
Basophiles.....	0	0	0	2	2	3	1	1	2	0	0	1	1	0	1

TABLE 6. SHOWING BLOOD STUDIES ON MONKEY NO. 1

Day	1	2	3	4	5*	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Erythrocytes (in millions).....	5.94	5.78	5.73	5.74	5.73	6.14	6.32	6.32	6.46	6.32	6.43	5.84	6.48	6.29	5.80	6.02	6.0			6.55				6.22	
Leukocytes (in thousands)...	16.5	25.0	13.5	27.0	18.5	24.5	17.5	25.5	13.5	22.0	29.5	19.5	15.0	23.5	13.0	14.0	12.0	12.5	16.0	15.0	17.5	24.5	18.5	21.0	14.5
Percent Lymphocytes.....	32	40	42	46	50	45	40	44	52	49	45	52	52	46	65	46	56	60	50	46	36	44	55	46	42
Percent Monocytes.....	5	5	6	10	11	6	4	4	4	2	5	3	3	3	4	4	3	3	4	2	1	3	3	4	2
Percent Neutrophils.....	62	52	48	43	38	48	54	50	43	48	50	43	45	49	27	50	38	35	43	49	62	50	38	46	53
Percent Eosinophiles.....	0	2	3	1	1	1	2	2	1	1	0	2	0	1	3	0	2	1	3	2	1	3	2	3	2
Percent Basophiles.....	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	0	0	2	1	1

Day	26	27	28	29	30	31	32	33	34	39	43	44e	45	46	47	48	49	50	51	52	53	54	55	56	57
Erythrocytes (in millions).....		6.05			5.82				5.85			6.26										6.15			
Leukocytes (in thousands)...	21.5	15.0	13.5	20.5	37.5	23.0	26.0	14.0	15.5	5.5	10.0	16.0	21.5	10.0	10.5	14.0	14.0	13.5	15.0	9.5	9.5	18.0			
Percent Lymphocytes.....	52	40	49	56	55	59	54	55	59	35	51	46	44	65	66	33	50	58	60	53	69	65	45	43	28
Percent Monocytes.....	3	4	4	4	3	3	6	6	5	6	6	4	6	3	5	2	5	7	5	8	4	7	9	5	4
Percent Neutrophils.....	41	54	45	39	36	33	35	33	32	57	35	48	45	31	27	65	45	35	34	38	23	26	43	36	46
Percent Eosinophiles.....	3	2	2	0	6	4	4	5	4	2	8	2	4	1	2	0	0	0	1	1	4	2	2	16	20
Percent Basophiles.....	1	0	0	1	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2

* Inoculated
e First eggs found in feces
Y Reticulocytes, 2.2 per cent
Z Nucleated red cells
> Sia test for euglobulin negative
† Sia test for euglobulin ±

TABLE 7. SHOWING BLOOD STUDIES ON MONKEY No. 2

Day	1	2	3	4	5*	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Erythrocytes (in millions).....	5.89	5.63	6.02	6.19	6.18	6.01	6.22	6.21	6.05	6.14	6.38	6.33	6.17	6.02	6.01	6.22	6.36			6.09				6.94	
Leukocytes (in thousands).....	18.5	15.0	30.0	29.5	23.0	22.5	29.5	27.0	43.5	24.5	13.5	32.0	29.5	32.5	25.0	33.5	31.5	34.5	9.0	32.5	26.0	32.5	35.0	35.5	28.0
Percent	40	34	59	50	49	39	44	49	47	48	46	50	51	69	65	63	51	54	44	55	61	67	62	60	66
Lymphocytes.....	7	5	6	6	9	8	5	4	3	4	4	4	5	5	4	3	3	4	7	3	4	2	5	10	3
Monocytes.....	52	56	34	44	41	53	49	44	50	47	46	42	42	23	23	32	43	41	46	39	32	27	29	25	28
Neutrophils.....	1	4	4	0	1	1	2	2	0	1	3	3	1	3	2	1	3	0	3	3	3	3	3	4	2
Eosinophiles.....	0	1	0	0	0	1	0	1	0	0	1	1	1	0	1	1	0	1	0	0	0	0	1	0	1
Basophiles.....																									

Day	26	27	28	29	30	31	32	33	34	35	36	38	39	40	42	43	44	45	46	47	48	49	50	51	52
Erythrocytes (in millions).....		5.92			6.24			6.12			6.16		6.42			5.99									
Leukocytes (in thousands).....	35.5	27.0	43.0	32.5	29.5	44.0	25.0	25.5	23.5	32.0	17.5	22.5	27.5	14.5	14.5	14.5	15.0	10.5	10.5	12.5	12.5	16.0	11.0	18.0	1.25
Percent	62	60	70	72	57	64	62	62	63	68	64	65	50	59	51	64	54	81	66	71	58	45	42	23	27
Lymphocytes.....	5	6	6	6	5	6	5	7	6	3	4	7	7	3	3	7	5	5	5	5	10	3	3	2	4
Monocytes.....	31	29	24	26	30	26	30	27	27	25	26	26	39	35	43	25	37	12	27	23	30	52	55	75	69
Neutrophils.....	2	5	0	6	7	4	2	4	4	4	5	2	4	2	3	2	4	2	2	1	2	0	0	0	0
Eosinophiles.....	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0
Basophiles.....																									

* Inoculated
> Sia test for euglobulin negative

TABLE 3. RESULTS OF BLOOD STUDIES IN 11 CASES OF HUMAN SCHISTOSOMIASIS MANSONI

Case No.	1	2	3	4	5	6	7	8	9*	10	11
Duration.....	1 yr. +	2 yrs.	5 yrs.	3 yrs.	4 yrs.	?	4 yrs. +	?	?	11 yrs.	6 yrs. +
Erythrocytes (in millions).....	3.64	3.38	3.92	4.55	5.25	65	5.32	5.41	5.3	4.94	4.22
Percent Hemoglobin.....	55	45	45	.....	85	65	90	75	85	80	70
Color index.....	7.76	.88	.57	.....	.8	9.77	7.85	7	.8	.83	.83
Leukocytes (in thousands).....	19	9.5	4.0	3.5	5.5	57	7.5	7.5	5.5	6.5	4.5
Percent Lymphocytes.....	38	18	42	46	24	7	45	34	24	57	32
Percent Monocytes.....	10	9	10	4	4	27	8	7	8	3	5
Percent Neutrophils.....	33	65	45	50	69	8	36	53	57	33	57
Percent Eosinophiles.....	0	8	3	0	5	11	11	6	10	7	6
Stool Examination.....	Diarrhetic, no blood or mucus <i>S. mansoni</i> eggs +	Blood and mucus. <i>S.</i> <i>mansoni</i> eggs +++	Formed stool <i>S.</i> <i>mansoni</i> eggs +	Formed stool <i>S.</i> <i>mansoni</i> eggs +	<i>S. mansoni</i> eggs +	<i>S. mansoni</i> eggs + Hook- worm eggs +	<i>S. mansoni</i> eggs +	<i>S. mansoni</i> eggs +	<i>S. mansoni</i> eggs +	<i>S. mansoni</i> eggs +	<i>S. mansoni</i> eggs +
Englobulin Precipitation Test.....	+++	+++	+++	.....	.....	++	.....	++++	±	+	+++

* Serological diagnosis of syphilis.

CHART 2

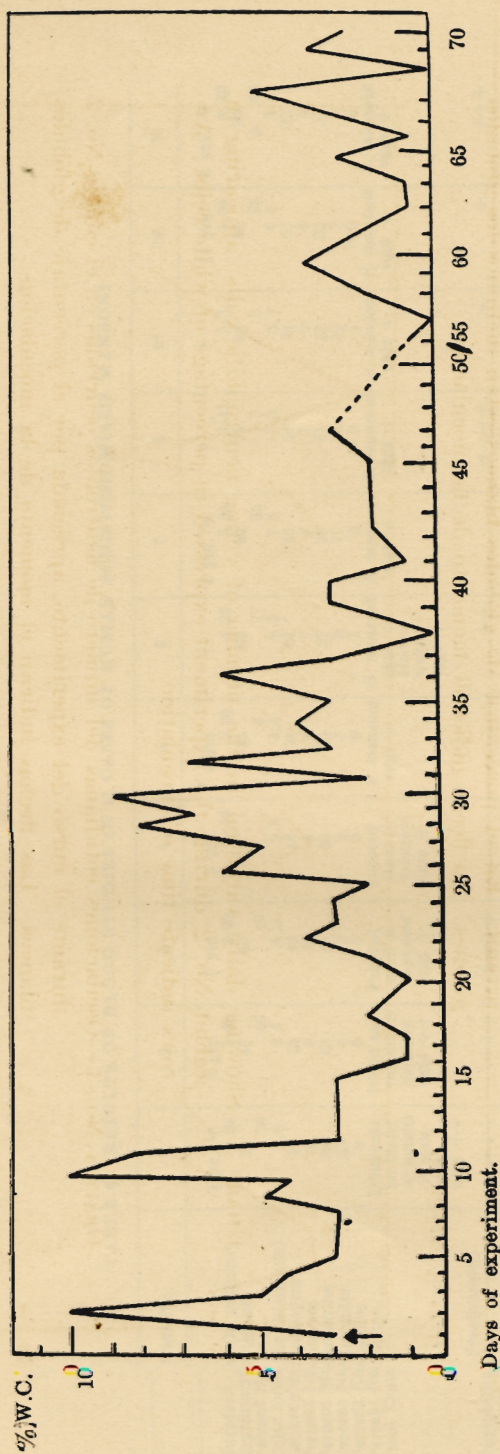


CHART 3

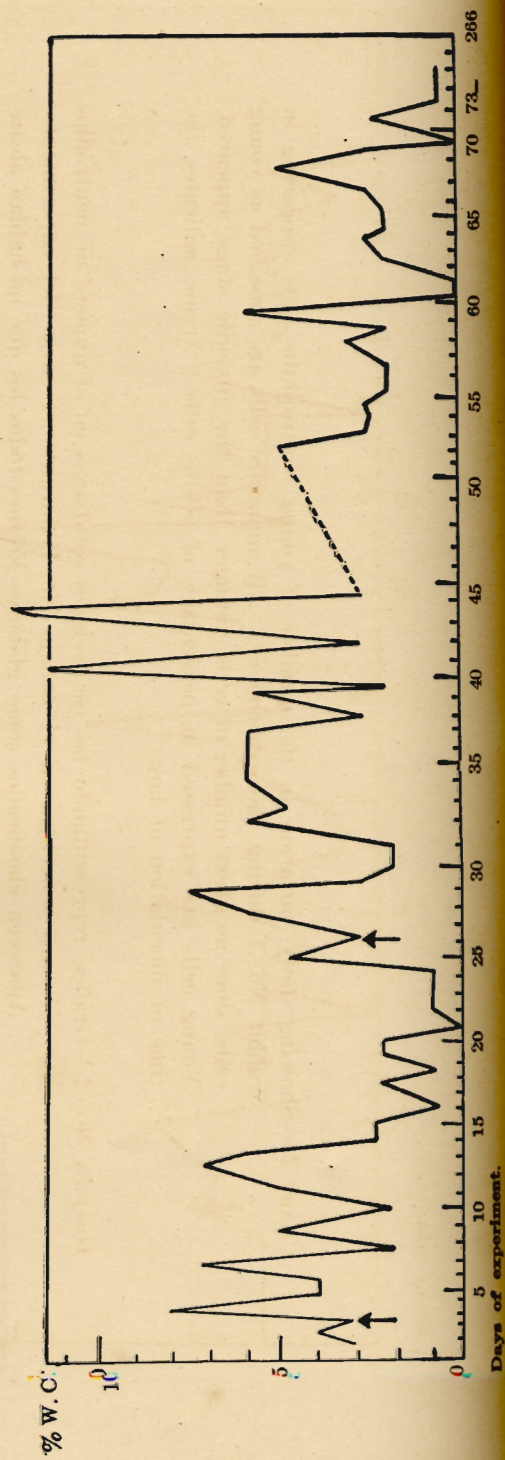


CHART 2.—Showing daily variation in the number of young neutrophilic cells appearing in rabbit No. 1 during the experiment. All immature cells are classified as young cells, since no great number of cells younger than the juvenile stage appeared. Young cells are expressed in percentage of white cells. Arrow indicates the time of inoculation of host.

GRÁFICA No. 2.—Gráfica representando las oscilaciones cotidianas en el número de neutrófilos jóvenes ocurridas en el conejo No. 1 durante el curso del experimento. Aparecen clasificados como glóbulos jóvenes todos los que no habían alcanzado la madurez, pues no fueron muchos los que habían pasado del estado juvenil. En el porcentaje de glóbulos blancos están incluidos los glóbulos jóvenes. La flecha indica el momento de la inoculación.

CHART 3.—Showing daily variation in the number of young neutrophilic cells appearing in rabbit No. 2 during the experiment expressed in percentage of white cells. Arrows indicate time of inoculation.

GRÁFICA No. 3.—Oscilaciones cotidianas del número de neutrófilos ocurridas en el conejo No. 2 durante el curso del experimento, apreciada por el porcentaje de glóbulos blancos. Las flechas indican el momento de la inoculación.

CHART 4

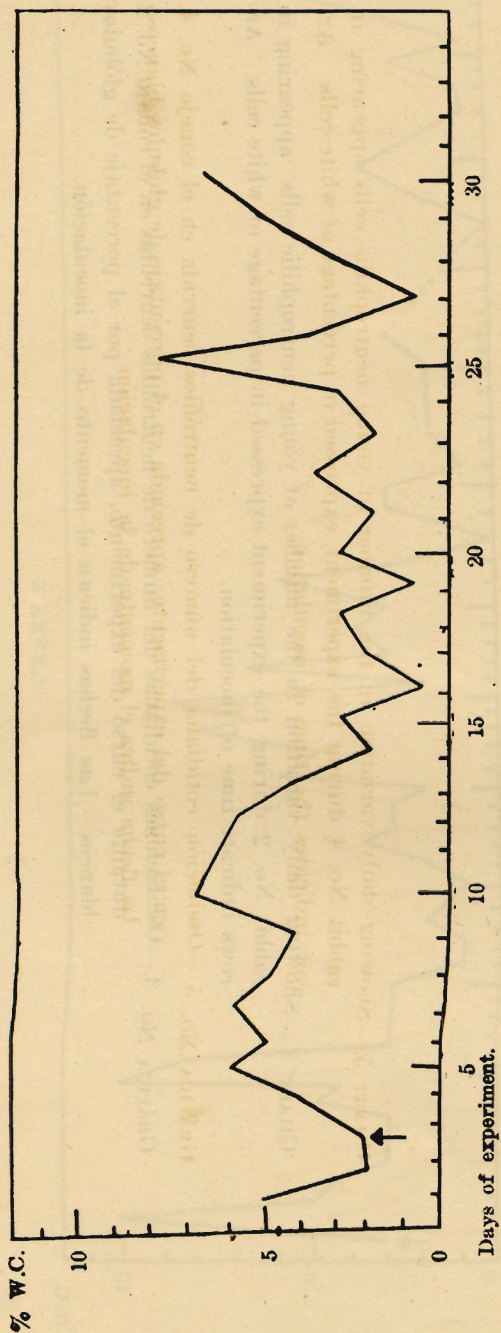


CHART 5

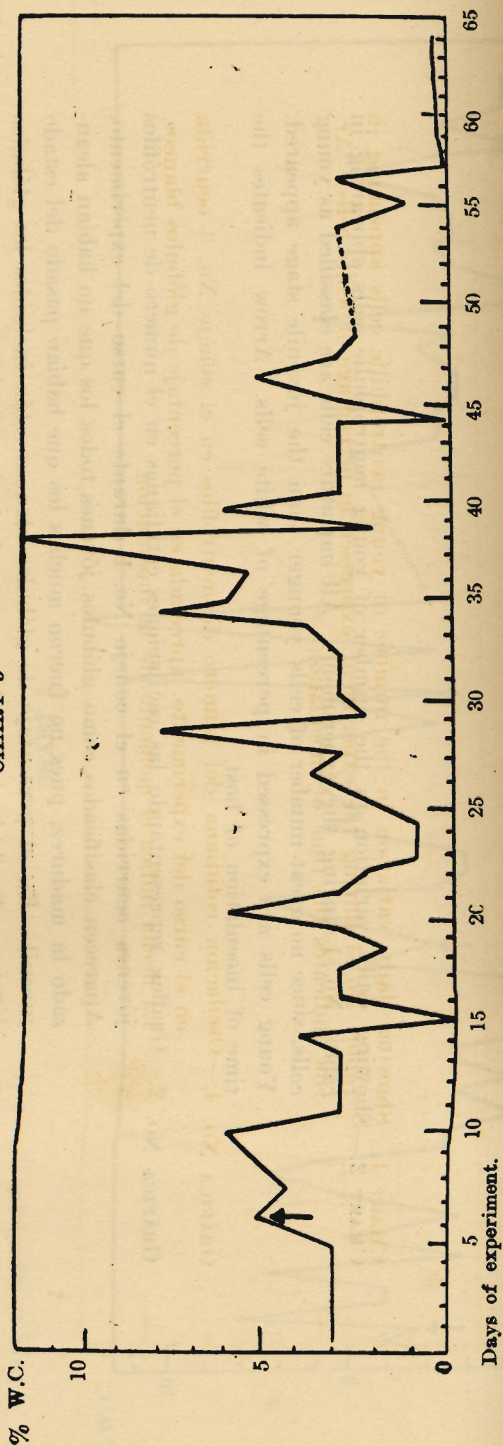


CHART 4.—Showing daily variation in the number of young neutrophilic cells appearing in rabbit No. 3 during the experiment, expressed in percentage of white cells. Arrow indicates the time of inoculation.

GRÁFICA No. 4.—Oscilación cotidiana del número de neutrófilos en el conejo No. 3 ocurrida en el curso del experimento, apreciada en el porcentaje de glóbulos blancos. La flecha indica el momento de la inoculación.

CHART 5.—Showing daily variation in the number of young neutrophilic cells appearing in rabbit No. 4 during the experiment, expressed in percentage of white cells. Arrow indicates the time of inoculation.

GRÁFICA No. 5.—Oscilación cotidiana del número de neutrófilos ocurrida en el conejo No. 4 en el curso del experimento, apreciada en el porcentaje de glóbulos blancos. La flecha indica el momento de la inoculación.