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The Blood Changes in Burns

by

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The Blood Changes in Burns

Scope of Thesis

The thesis consists of the records of 69 cases of burns and scalds. All the injuries were severe enough to require Infirmary treatment, and in 34 cases caused death.

Details of each case are given as follows:—

Name of Patient

Age

Cause of Burns or Scalds

Diagram showing extent of injuries

Degree of Burning

Result of Case

Records of counts of red and white corpuscles, a haematological chart being given in each case for convenience of reference.

Methods

The Haemocytometer used was by Leitz of Wetzlar.

The diluting solutions were:— Red corpuscles

℥ Sodii Sulphat. 8 parts
Sodii Chloridi 1 part
Glycerini 30 parts
Aq. Destill. 160 "
Methyl Violet q.s.m.

White corpuscles

℥ Acidi Acetic. Glac. 3%
Methyl Violet q.s.m.

The first blood-count was done as soon as possible after the accident. Subsequent counts were taken daily, or on alternate days, during the first week & less frequently afterwards. Counts after the first were practically all done after 10 p.m. to avoid the leucocytosis following meals.

Methods contd.

Blood was usually obtained from the lobule of the ear, or if the ears were burned from a finger

The skin was sterilised (before pricking with alcohol and ether). but friction was avoided as far as possible

Treatment of Wases

The burnt areas were covered with boracic lint soaked in a 1 in 20 soln of Bicarbonate of Soda, and then by gutta-percha tissue. In a few days this was followed by wet boracic dressings & later by lint smeared with Vaseline.

Degrees of Burning

Dupuytren's classification is followed

<u>1st degree</u>	Erythema of skin
<u>2nd "</u>	Vesicle formation
<u>3rd "</u>	Epidermis and part of corium destroyed
<u>4th "</u>	Whole thickness of skin & subcutaneous areolar tissue destroyed
<u>5th "</u>	Skin & part of muscle destroyed.
<u>6th "</u>	Whole thickness of limb destroyed.

Literature

References to the blood changes in burns are scanty.

Sabot in his book on Haematology says "Intensive burns have been reported to cause haemoglobinaemia with breaking up of red cells"

He also mentions Schulze (1865) who noticed the crenation and minute subdivision of red cells exposed to 52°F . This process he readily followed in a fresh specimen heated over a flame

Sabot goes on to say: "From these tissue changes many authors are led to

Literature contd.

conclude that death from burns is referable to destruction of blood cells with thrombosis and to concentration of the blood from exudation and stasis. The changes seen in the red cells were extreme in degree, but not always extensive. The cells were distorted, subdivided, broken up into granules and globules. Many "shadows" remained, the haemoglobin often gathered in masses in the cells, & basic staining granules or areas appeared in the cells.

On the other hand Hoppe-Seyler & others could not find sufficient changes in the red corpuscles to account for death. He found haemoglobinuria and haematuria."

Da Costa Jr. in "Clinical Haematology" says that in severe burns there is "Rapidly developing and marked polycythaemia, equally striking leucocytosis, & a plaque increase. To the naked eye the blood has a deep purplish colour, & flows very sluggishly.

Locke, Boston Med. &
Surg. Journal 1902

He then quotes Locke's studies of 10 cases of severe burns which showed that within a few hours after the accident a marked increase in the number of erythrocytes takes place, amounting in favourable cases to between 1,000,000 to 2,000,000 per cu. mm. and in fatal cases to between 2,000,000 and 4,000,000.

This polycythaemia may be explained chiefly by venous stasis, and partly by loss of the blood plasma. Structural changes in the red cells are not conspicuous. The leucocytes rapidly increase, reaching a count of from 30,000 to 40,000 per cu. mm. in favourable cases, and of 50,000 or more

Literature contd.

in patients who die. The percentage of polymuclear neutrophils increases, although not to so high a figure as is commonly found in ordinary inflammatory leucocytosis. Degenerative changes, especially of their protoplasm, involve many of these cells, as well as the other granular leucocytes, & are marked in parallelism with the severity of the lesion. Myelocytes occur in small numbers, particularly in cases having a high leucocytosis. The blood plaques are greatly increased in practically every instance.

R. J. M. Buchanan in his "Blood in Health and Disease" says under the heading "Blood changes following severe burns" "The erythrocytes become fragmented and distorted, a loss of water takes place, and an increase of 1,000,000 or more per cu. mm. in the number of erythrocytes may take place rapidly. In fatal cases the polycythaemia may be very marked, even up to 4,000,000 per cu. mm. There is also an increase of blood platelets and a high grade leucocytosis

Normal Figures of

Blood - count

The normal number of red corpuscles per cu. mm. in the male is regarded as 5,000,000, and in the female 4,500,000

The normal leucocyte count is regarded as being in the neighbourhood of 7000 per cu. mm.

Results of
Present Series
of Bases

Tables A, B, C, D show that there is a rapid increase in the number of red blood corpuscles per cu. mm. within a few hours of the burns being sustained

Table A

Fatal Male Bases.

Number of Case	Time between accident and blood-count	Red corpuscles
5	2 hours	4,100,000
4	2 "	4,700,000
19	5 "	8,150,000
6	6 "	5,600,000
16	6 "	4,700,000
4	8 "	5,600,000
29	12 "	11,000,000

Bases in which the count fell beneath the normal figure of 5,000,000, are underlined red

Table B

Fatal Female Bases

Number of Case	Time between accident and blood-count	Red corpuscles
15	2 hours	4,937,000
17	3 "	3,400,000
18	3 "	8,500,000
23	4 "	5,250,000
24	4 "	4,100,000
30	4 "	7,800,000
7	5 "	6,900,000
2	6 "	5,000,000
20	9 "	7,200,000
14	10 "	7,350,000
27	10 "	7,000,000
25	12 "	6,600,000
33	15 "	9,350,000

Bases in which the count fell beneath the normal figure of 4,500,000, are underlined red.

Results of Present
Series of Cases.
Contd

Table C.

Non-Fatal Male
Cases

Number of Case	Time between accident and blood-count	Red corpuscles
58	1 hour	4,750,000
68	2 hours	4,950,000
50	3 "	3,350,000
51	3 "	5,400,000
63	3 "	4,950,000
59	4 "	4,750,000
56	5 "	5,400,000
57	5 "	6,800,000
46	7 "	6,800,000
53	12 "	6,250,000
55	12 "	6,750,000
64	12 "	3,750,000
66	12 "	5,000,000

Cases in which the count fell beneath the normal figure are underlined red.

Table D
Non-fatal Female
Cases

Number of Case	Time between accident and blood-count	Red corpuscles
67	6 hours	4,700,000

above the normal standard

From these Tables (A, B, C & D) it is shown that ^{in most cases} there is an increase of half a million to four millions erythrocytes per cu. mm. within 4 to 12 hours of the accident happening. During the first 3 or 4 hrs there does not seem usually to be any increase, if anything, a diminution. The increase is most marked in the fatal cases in both sexes.

Results of Present Series of bases contd.

Table E shows the highest count of erythrocytes obtained in each case, and the day after the accident on which that count was obtained. bases which died before the 3rd day are excluded

Males	Number of Base	Highest erythrocyte count	Day of Highest count	Females	Number of Base	Highest erythrocyte count	Day of Highest count
Fatal bases	6	5,650,000	3	Fatal bases	2	5,000,000	1
	9	6,350,000	3		7	6,900,000	1
	11	9,500,000	2		10	6,950,000	2
Non-Fatal bases	36	6,000,000	2		12	6,700,000	2
	37	4,325,000	2		13	5,850,000	1
	39	5,100,000	3		14	7,350,000	1
	40	6,200,000	2		18	9,050,000	2
	45	5,500,000	8		25	8,700,000	3
	46	6,800,000	1		26	7,100,000	1
	47	7,150,000	2		34	5,600,000	1
	50	5,600,000	12	Non-Fatal bases	35	3,380,000	3
	51	5,400,000	1		38	4,625,000	2
	52	6,350,000	2		41	5,950,000	3
	53	6,250,000	1		48	6,000,000	3
	54	4,500,000	6		49	5,000,000	6
	55	6,750,000	1		67	5,650,000	3
	56	7,250,000	2		69	6,550,000	1
	57	6,800,000	1				
	58	4,800,000	5				
	59	7,750,000	1				
	60	5,350,000	2				
	61	5,400,000	3				
	62	6,650,000	2				
63	5,000,000	16					
64	4,000,000	10					
65	6,800,000	2					
66	5,000,000	1					
68	4,950,000	1					

Results of Present Series of Cases Contd.

Table E. shows that the increase in the numbers of erythrocytes per cu. mm. is at its height by the 3rd day, ^{at latest} in the great majority of cases. In seven of the less severe cases the higher figure was obtained at a later date, but the count was always little if any above normal. These cases are underlined with red ink.

Table E. also shows the extent of the polycythaemia. Four cases (Nos. 14, 24, 5, 16) showed subnormal counts, and yet ended fatally; while six of the non-fatal cases (Nos. 35, 37, 54, 58, 64, 68) also showed subnormal figures.

Out of 23 fatal female cases 2 were below 4,500,000 for highest count,
6 were above 5,000,000 & below 6,000,000,
4 " " 6,000,000 & " 7,000,000,
7 " " 7,000,000 & " 8,000,000,
2 " " 8,000,000 & " 9,000,000,
2 " " 9,000,000 & " 10,000,000.

Out of 12 fatal male cases 2 were below 5,000,000 for highest count
2 " above 5,000,000 & below 6,000,000,
4 " " 6,000,000 & " 7,000,000,
1 was " 7,000,000 & " 8,000,000,
1 " " 8,000,000 & " 9,000,000,
1 " " 9,000,000 & " 10,000,000,
1 " at 10,000,000.

Out of 7 non-fatal female cases 1 was below 4,500,000 for highest count,
1 " above 4,500,000 & below 5,000,000,
3 were " 5,000,000 & " 6,000,000,
2 " " 6,000,000 & " 7,000,000.

Results of Present
Series of Cases
contd.

Out of 26 non-fatal male cases 5 were below 5,000,000 for highest count,
8 " above 5,000,000 9 below 6,000,000,
9 " " 6,000,000 9 " 7,000,000,
3 " " 7,000,000 9 " 8,000,000,
1 was " 8,000,000 9 " 9,000,000.

These tables show the highest level reached by the red blood count in every case.

In fatal cases the red corpuscle count may show a subnormal level, or
as in 31 out of 35 of the present series show an increase of from $\frac{1}{2}$
to 5 millions per cu. mm.

In the non-fatal cases, 27 out of 33 cases show increases of from $\frac{1}{2}$ to
 $3\frac{1}{2}$ millions per cu. mm, the remaining 6 showing subnormal figures.

Results of Present
Series of cases
contd.

The normal leucocyte count is accepted as being in the neighbourhood of 7000.

Table 7
Fatal Male cases

Number of case	Time between accident and first count	First count of White corpuscles
5	2 hours	23,570
9	2 "	23,750
14	5 "	46,500
6	6 "	12,500
16	6 "	15,000
4	8 "	30,000
29	12 "	44,200

Table 9
Fatal Female cases

Number of case	Time between accident and first count	First count of White corpuscles
15	2 hours	30,625
17	3 "	68,000
18	3 "	48,750
23	4 "	8,750
24	4 "	41,875
30	4 "	128,000
7	5 "	7,850
2	6 "	27,000
20	9 "	35,000
14	10 "	17,500
27	10 "	60,000
25	12 "	39,000
33	15 "	36,800

Only in two cases, underlined red, could leucocytosis be said to be absent

Results of Present Series of bases burnt.

Table H

non-fatal male bases

Number of base	Time between Accident and first count	first count of White forpuscles
58	1 hour	28, 750
68	2 hours	11, 250
50	3 "	17, 500
51	3 "	30, 000
63	3 "	17, 500
59	4 "	46, 250
56	5 "	18, 750
57	5 "	20, 000
46	7 "	7, 500
53	12 "	17, 800
55	12 "	28, 750
64	12 "	31, 875
64	12 "	11, 875

No leucocytosis present in this case

Table I

non-fatal female base.

Number of base	Time before count	first count of White forpuscles
67	6 hours	38, 000

From Tables F, G, H, & I. it is seen that leucocytosis is present in almost every case of severe burning within a short time after the accident. High counts were obtained one, two, & three hours after. The leucocytosis is more marked in the fatal cases. Two fatal cases and one non-fatal case (46) showed no leucocytosis, but two of those (7 & 46) did subsequently. Out of 34 cases in which the blood-count was taken within 12 hours of the accident, 31 showed leucocytosis, generally marked.

Results of Present Series of bases fatal.

Table H shows the highest leucocyte count on each case and the day on which it was obtained, cases dying before the 3rd day being ^xenclued.

Males	Number of Base	Highest White Count	Day on which count was obtained	Females	Number of Base	Highest White Count	Day on which count was obtained	
Fatal bases	6	38,000	5	Fatal bases	2	46,000	3	
	9	27,500	3		7	31,150	2	
	11	27,500	2		10	33,500	2	
Non-fatal bases	36	33,700	20		12	41,650	2	
	37	17,500	3		13	16,875	3	
	39	17,500	15		14	17,500	1	
	40	23,300	5		16	53,000	2	
	45	43,750	14		25	46,250	3	
	46	16,875	4		26	52,000	9	
	47	18,750	10		34	37,500	4	
	50	17,500	1		Non-fatal bases	35	27,500	11
	51	30,000	1			38	10,800	1
	52	41,875	1			41	25,000	1
	53	20,625	13	48		29,375	19	
	54	22,500	21	49		13,750	18	
	55	28,750	1	67		43,000	3	
	56	18,750	1	69		12,000	5	
	57	26,250	5					
	58	28,750	1					
	59	46,250	1					
	60	12,625	14					
	61	19,375	3					
	62	15,000	5					
63	20,000	4						
64	31,875	1						
65	30,625	2						
66	11,875	1						
68	15,625	3						

Results of Present Series of cases contd.

From Table H we find that out of 13 Fatal cases, which lived at least 3 days

1	had the highest leucocyte count on 1 st day.
5	" " " " " " 2 nd "
4	" " " " " " 3 rd "
1	" " " " " " 4 th "
1	" " " " " " 5 th "
1	" " " " " " 9 th "

and out of 32 non-fatal cases

11	had the highest leucocyte count on 1 st day
1	" " " " " " 2 nd "
4	" " " " " " 3 rd "
2	" " " " " " 4 th "
4	" " " " " " 5 th "

The 10 remaining non-fatal cases had their highest leucocyte count from the 10th to 21st day, but all these counts were undoubtedly due to the leucocytosis attending a suppurating, granulating, surface.

Leucocytosis after severe burns is therefore at its height by the 5th day at latest: exceptions to this are few.

The highest count obtained in each case ranged from 8,450 to 128,000 in the fatal series, and from 10,800 to 46,250 in the non-fatal series.

Results of Present Series of bases contd.

Structural changes in the erythrocytes were observed in a large proportion of cases, but were not prominent.

Out of 34 fatal cases, 24 showed slight poikilocytosis in some of the red cells, 2 showed well-marked poikilocytosis affecting practically all the red cells, while the remaining 8 cases showed no structural change in the reds. Two cases showed crenation of some of the erythrocytes.

Out of 33 non-fatal cases, 14 showed slight poikilocytosis in some of the erythrocytes, the other 19 cases showing no structural changes.

Well-marked poikilocytosis bases 9 & 11

crenation of erythrocytes bases 5 & 6

Slight poikilocytosis bases 1, 2, 3, 4, 5, 6, 7, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20,

21, 22, 24, 25, 27, 28, 30 (fatal)

37, 40, 41, 45, 46, 47, 49, 52, 53, 54, 55, 56, 57,

58 (non-fatal)

Microcytes were present in the blood of 14 out of the 34 fatal cases.

but were not observed in that of the non-fatal cases (bases 1, 2, 3, 4, 5, 7, 11, 15, 19, 21, 24, 25, 28, 30)

Blood-platelets seemed to be increased in the severer cases especially,

but no attempt was made to count them, as they were always clumped together.

Summary of
Conclusions from
Present Series of
Cases.

* i.e. in most cases in which the first count was done within twelve hours. Vide Tables A, B, & D.

After severe burning polycythaemia was observed, ^{in some cases} within three or four, and in most cases within twelve hours. It reached its height on the first, second, or third day at latest, and in favourable cases gradually fell to normal afterwards. The increase varied from half a million to five millions ^{per cu. mm.} in fatal cases, and from half a million to four millions in favourable cases. Though as a rule more marked in fatal cases, a few cases which died showed no polycythaemia.

Leucocytosis was also more marked in fatal cases. In one case it was found one hour, and in several others within two hours of the accident, being thus ^{in onset} earlier than the polycythaemia. Increases of from one to sixty thousand leucocytes per cu. mm. were got within twelve hours. It often reached its maximum on the first day, and as a rule, not later than the fifth day. High leucocyte counts got after the fifth day were always due to the suppuration of sloughing or granulating areas. Leucocytosis was never absent. The highest count recorded in a fatal case was 128,000, and the lowest 8,450.

Poikilocytosis was present in two-thirds of the fatal cases, but only slightly. In two cases it was well-marked; and in other two crenated red corpuscles were seen. Less than half of the favourable cases also showed slight poikilocytosis. Microcytes were present in fourteen out of thirty-four fatal cases, but in none of the favourable ones.

Blood-platelets were usually clumped together and presumably increased.

Explanatory.

Particulars of each case are given in the following pages.

The numbers at the corner of each page refer to the number of each case.

All the cases were investigated in the winter of 1907-8 after admission to Wards 14 and 32 of the Glasgow Royal Infirmary.

The diagrams showing the extent of the burning are inserted to enable the reader to form at a glance an idea of the severity of the injuries. No attempt has been made to indicate by shading, the degree of severity of the burning, because the effect on the system is determined more by the extent of surface involved than by the depth of the burning.

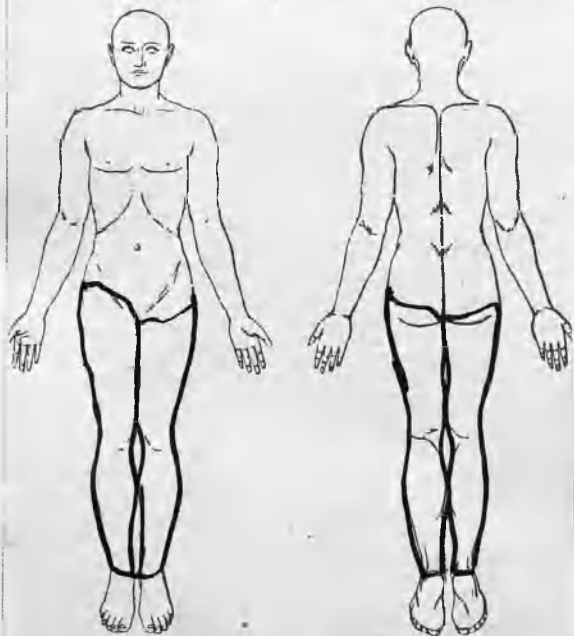
The thesis is restricted to a statement of the blood-changes. The presence of indicanuria or haematuria is not indicated in the following pages, though worked out in many of them.

Name Kate Yeoman
Age 29 yrs
Date April 1st 1908

Date	Red	White
1908		
April 1 st	Burned	
April 2	4,050,000	58,750

Cause of Burns Skirt on Fire

Extent & Degree of Burning Both legs from ankles to buttocks mostly 3rd degree



Result Died on April 3rd

HAEMATOLOGICAL CHART.

I

Name
Cate Yeoman

Age
19 yrs.

Disease

Notes

DATE		<i>April 2 3</i>	
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES	
6,000,000	120	800,000	
		700,000	
5,500,000	110	600,000	
		500,000	
5,000,000	100	400,000	
		300,000	
4,500,000	90	200,000	
		175,000	
4,000,000	80	150,000	
		125,000	
3,500,000	70	100,000	
		90,000	
3,000,000	60	80,000	
		70,000	
2,500,000	50	60,000	
		50,000	
2,000,000	40	40,000	
		30,000	
1,500,000	30	28,000	
		26,000	
1,000,000	20	24,000	
		22,000	
500,000	10	20,000	
		19,000	
		18,000	
		17,000	
		16,000	
		15,000	
		14,000	
		13,000	
		12,000	
		11,000	
		10,000	
		9,000	
		8,000	
		7,000	
		6,000	
		5,000	
		4,000	
		3,000	
		2,000	
POLYMORPHONUCLEAR NEUTROPHILS			
" EOSINOPHILS			
LYMPHOCYTES, SMALL			
" LARGE MONONUCLEARS			
MYELOCYTES, NEUTROPHILS			
" EOSINOPHILS			
NUCLEATED RED CELLS			

Differential Count per cent.

RED CORPUSCLES — BLACK

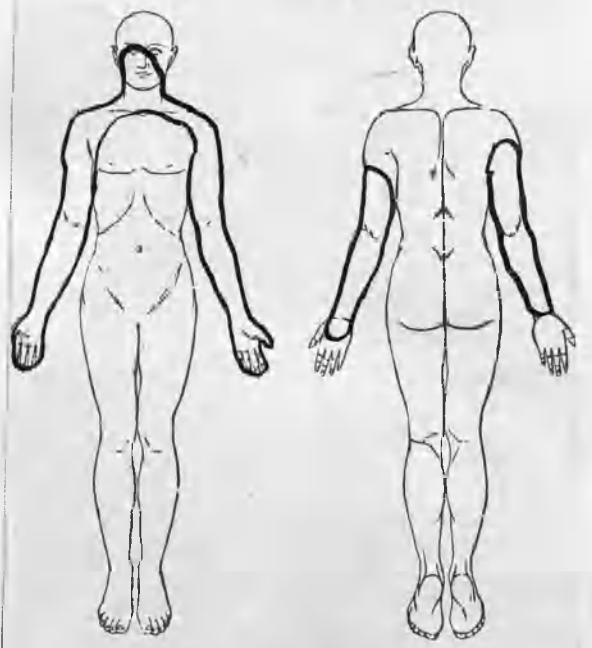
HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Jessie Delbridge
Age 5 1/2 yrs.
Date Nov. 6th 1907
Cause of Burns Clothing on fire
Extent & Degree of Burning Both arms, and lower part of face, & neck. Face 3rd degree, remainder 2nd degree.

Date	Red	White
1907 Nov. 6 th	Burned	
Nov. 6	5,000,000	27,000
" 7	5,000,000	40,000
" 8	5,000,000	46,000
" 9	5,000,000	37,250
" 10	5,000,000	26,250



Result Died on 11th Nov.

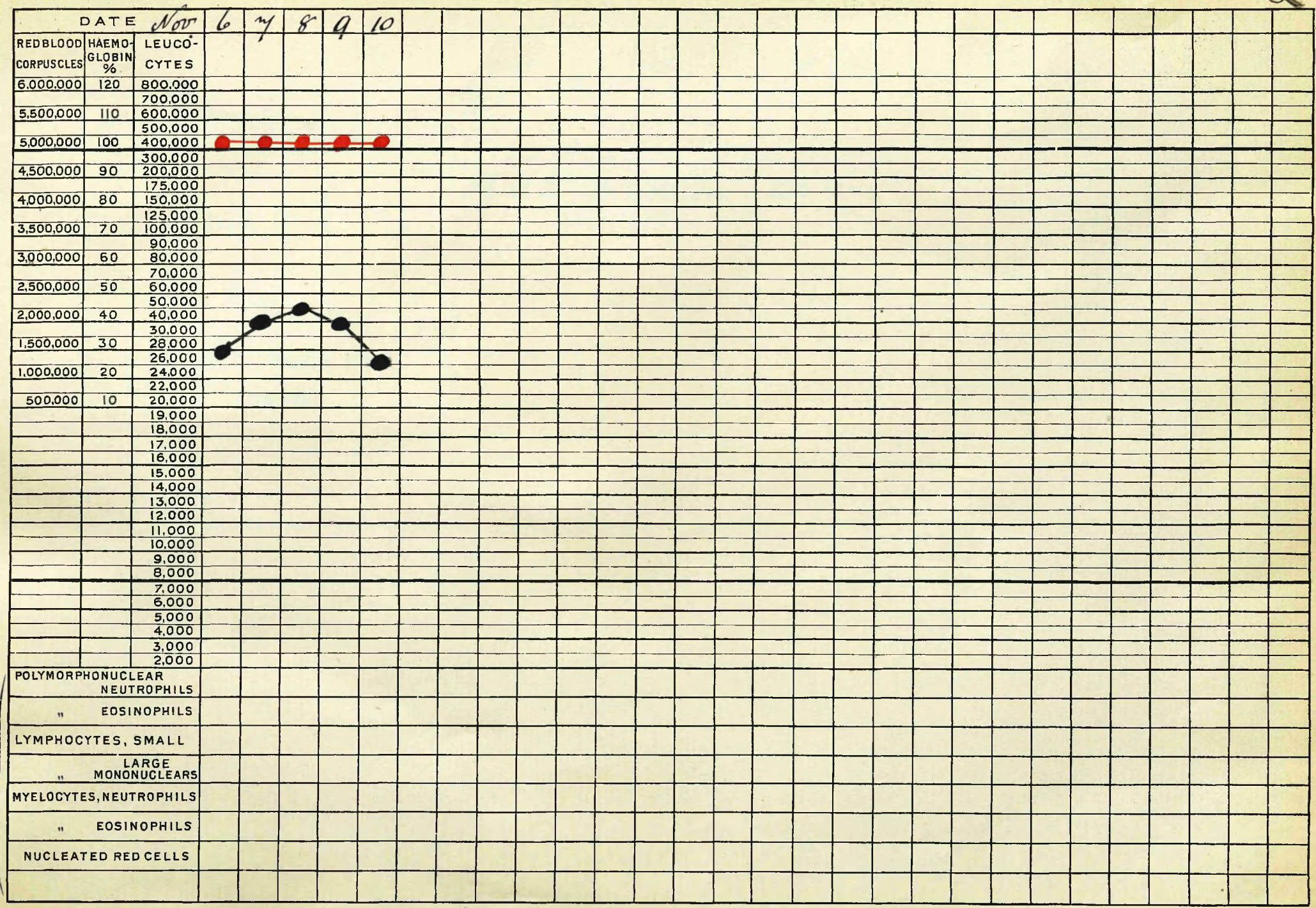
HAEMATOLOGICAL CHART.

Name
Miss Delbridge

Age
5 1/2 yrs.

Disease

Notes



Differential Count per cent.

RED CORPUSCLES — BLACK HAEMOGLOBIN — RED LEUCOCYTES — BLUE

Blood count

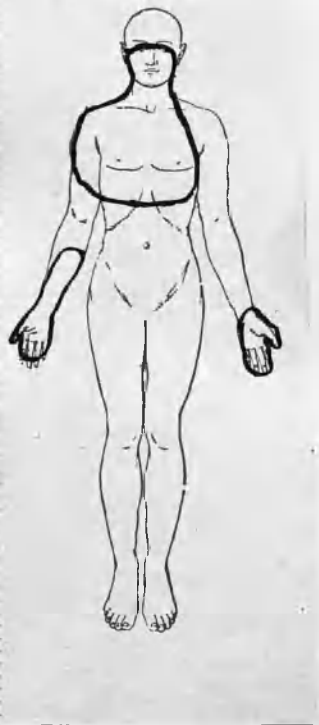
Name Maggie Armstrong

Age 5 yrs.

Date of Accident April 1st 1908

Cause of Burns Clothing on fire

Extent and Degree of Burning Front of chest, face & arms chiefly 3rd degree



Result Died on 5th April

Date	Red	White
1908 April 1 st	Burned	.
April 4 th	6,450,000	44,375

HAEMATOLOGICAL CHART.

3

Name
Iggie Armstrong

Age
5 yrs.

Disease

Notes

DATE		April	1	2	3	4	5														
RED BLOOD CORPUSCLES	HAEMO-GLOBIN %	LEUCOCYTES																			
6,000,000	120	800,000				●															
5,500,000	110	600,000																			
5,000,000	100	400,000																			
4,500,000	90	200,000																			
4,000,000	80	150,000																			
3,500,000	70	100,000																			
3,000,000	60	80,000																			
2,500,000	50	60,000																			
2,000,000	40	40,000				●															
1,500,000	30	28,000																			
1,000,000	20	24,000																			
500,000	10	20,000																			
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		3,000																			
		2,000																			
		POLYMORPHONUCLEAR NEUTROPHILS																			
		" EOSINOPHILS																			
		LYMPHOCYTES, SMALL																			
		" LARGE MONONUCLEARS																			
		MYELOCYTES, NEUTROPHILS																			
		" EOSINOPHILS																			
		NUCLEATED RED CELLS																			

Differential Count per cent.

Blood count

Date	Red	White
1912		
Nov. 21 st	Burned	
" 21 st	5,600,000	30,000
" 22	5,600,000	52,000

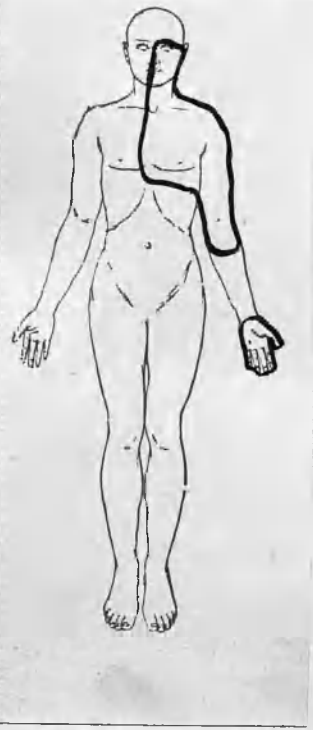
Name William J. McKenna

Age 3 yrs.

Date of Accident Nov. 21st 1907

Cause of Burns Clothing on Fire

Extent & Degree of Burns Left side of face, neck, chest & left arm, mostly 3rd degree.



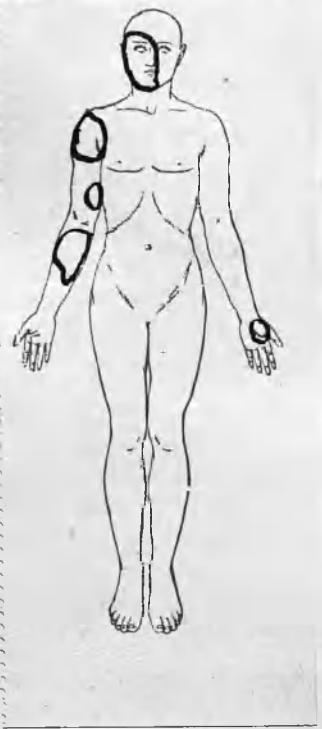
Result Died on 22nd Nov.

Blood count

Name Alfred Leck
Age 3 mths
Date of Accident Nov. 23rd 1904

Date	Red	White
1904 Nov. 23 rd	Burned	
" 23	4,100,000	23,500
" 24	4,000,000	34,000

Cause of Burning Clothing on fire
Extent and Degree of Burning Right side of face: patches on right arm: small patch on left hand



Result Died on Nov. 25

HAEMATOLOGICAL CHART.

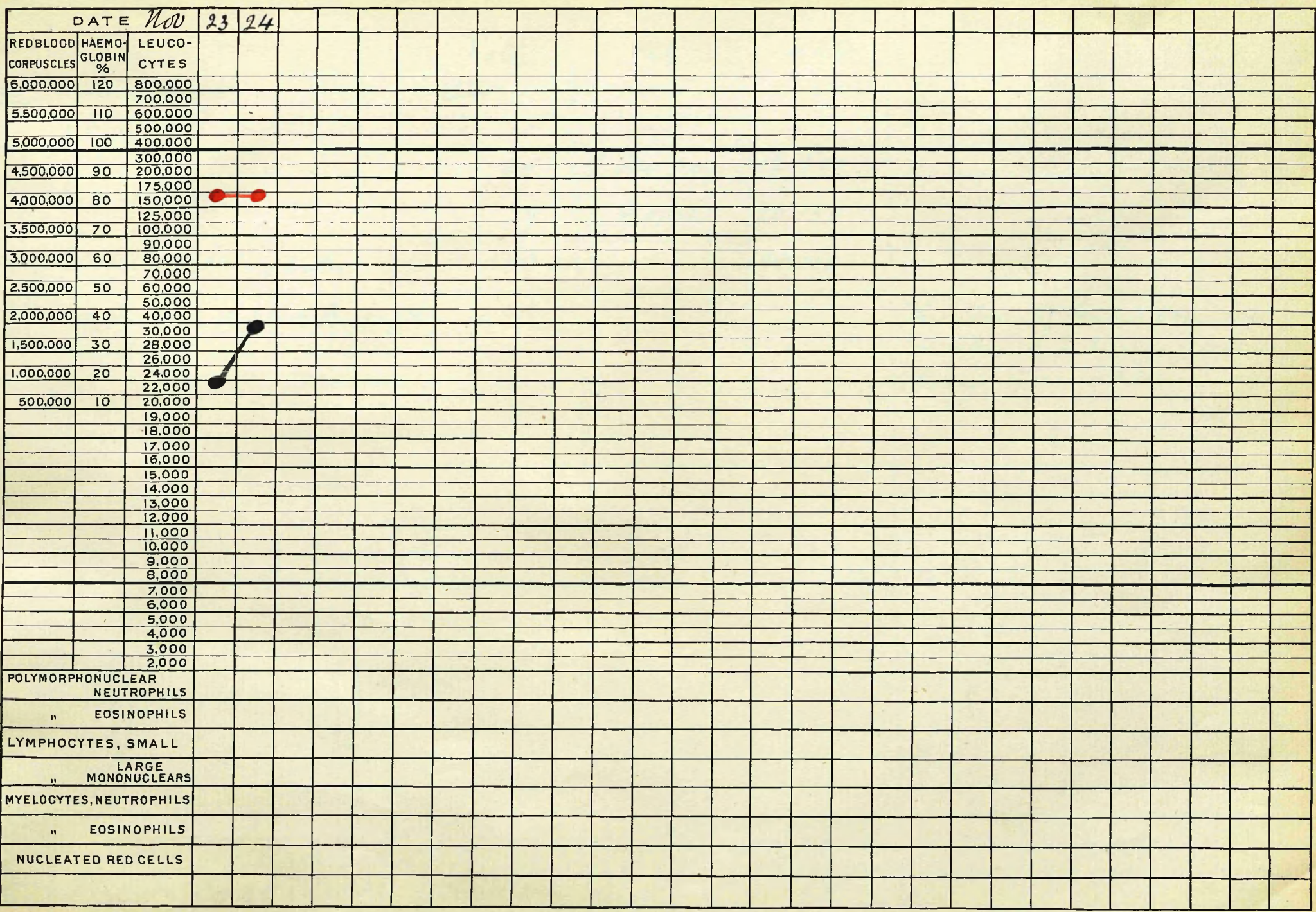
Name Alfred Leek

Age 3 mths.

Disease

Notes

Differential Count per cent.



RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood Count

Date	Red	White
1904		
Nov. 25	Scalded	
" 25	5,600,000	12,500
" 27	5,650,000	24,150
" 29		38,000

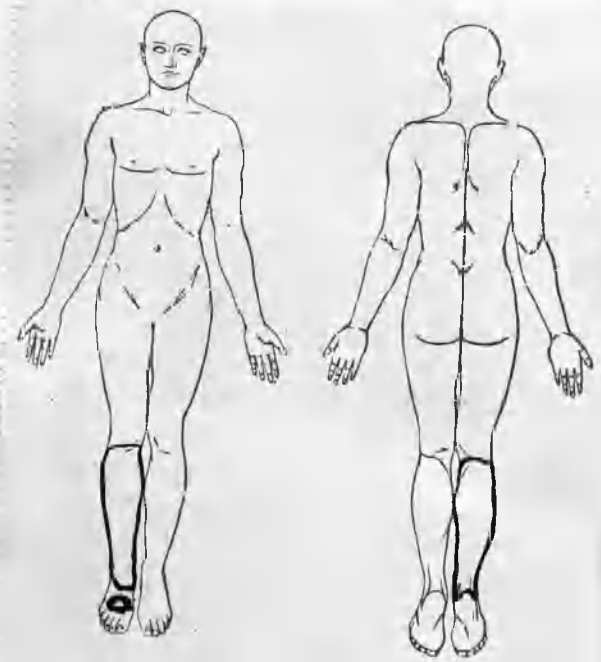
Name William Scott

Age 35 yrs

Date of Accident Nov. 25th 1904

Cause of Scalds Stepped into boiling water

Extent and Degree of Scalding One leg from ankle to knee: 3rd degree



Thrombosis of Femoral Vein and embolism of pulmonary arteries found post-mortem

Result Died on Nov. 29

HAEMATOLOGICAL CHART.

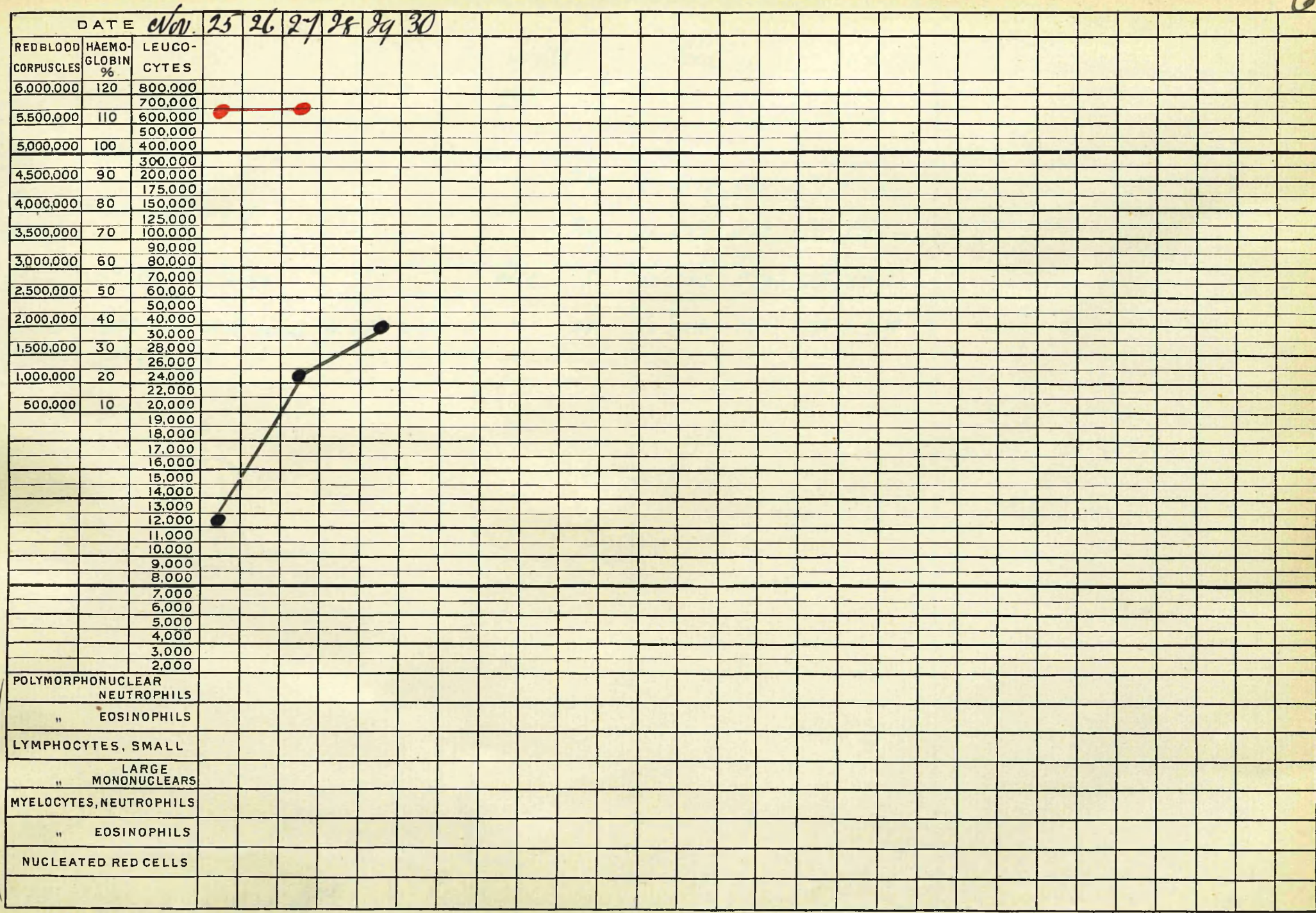
6

Name
Wm. Scott

Age
35 yrs

Disease

Notes



Differential Count per cent.

RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood Count

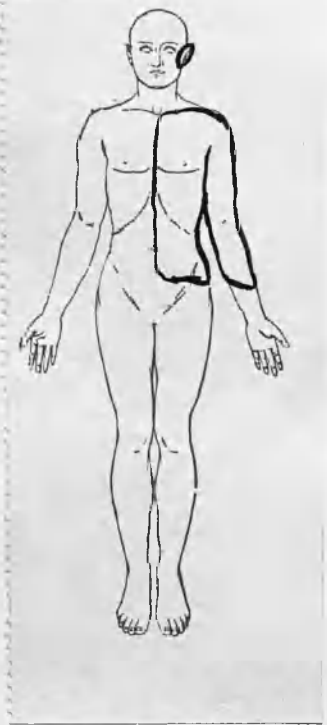
Name Mrs. Thomson

Age 53 yrs

Date of Accident Nov. 28th 1907

Cause of Burning Clothes on Fire

Extent & Degree of Burns Left ear, left arm, & left side of body.

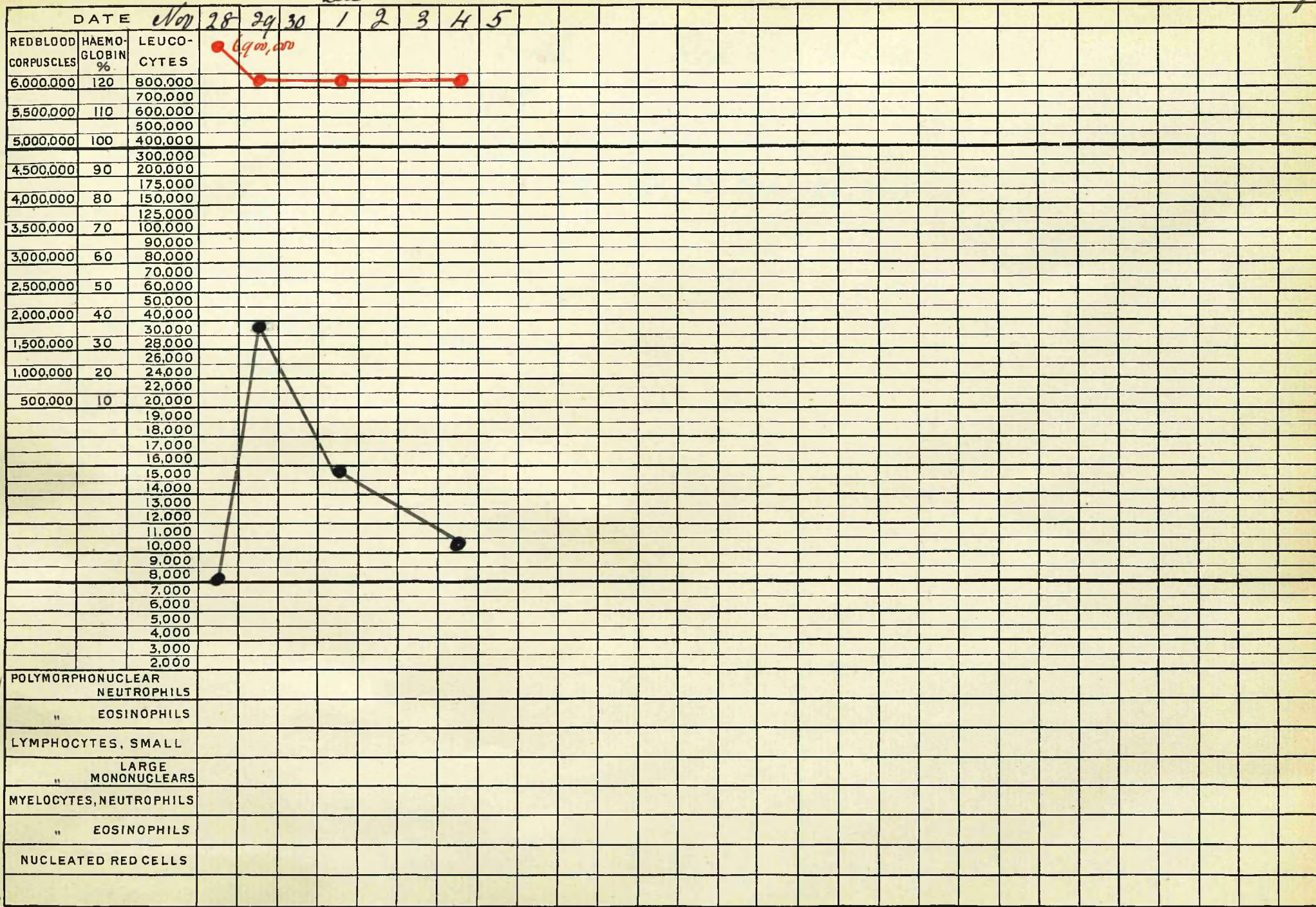


Result Died on Dec. 5th

Date	Red	White
1907 Nov. 28 th	Burned	
" 28	6,900,000	27,850
" 29	6,000,000	31,150
Dec. 1	6,000,000	15,850
" 4	6,000,000	10,625

HAEMATOLOGICAL CHART.

Dec



Name Mrs Thomson

Age 53 yrs

Disease

Notes

Differential Count per cent.

RED CORPUSCLES - BLACK HAEMOGLOBIN - RED LEUCOCYTES - BLUE

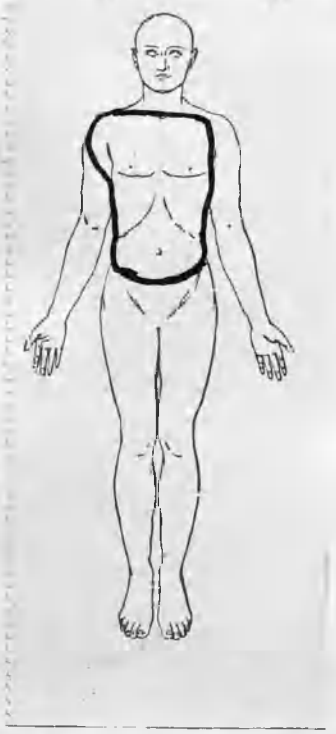
Blood count

Name John Moore
Age 40 yrs.

Date of Accident April 3rd 1908

Cause of Burning Clothing on Fire

Extent & Degree of Burns. Chest & upper half of abdomen, mostly 3rd degree.



Result. Died on April 5th

Date	Red	White
1908 April 4 th	Burned	
" 4	6,250,000	29,375

HAEMATOLOGICAL CHART.

Name
John Moore

Age
40 yrs.

Disease

Notes

DATE	April	4	5															
REDBLOOD CORPUSCLES	HAEMO-GLOBIN %	LEUCO-CYTES																
6,000,000	120	800,000	●															
		700,000																
5,500,000	110	600,000																
		500,000																
5,000,000	100	400,000																
		300,000																
4,500,000	90	200,000																
		175,000																
4,000,000	80	150,000																
		125,000																
3,500,000	70	100,000																
		90,000																
3,000,000	60	80,000																
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2,500,000	50	60,000																
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2,000,000	40	40,000																
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1,500,000	30	28,000	●															
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		2,000																
POLYMPHONUCLEAR NEUTROPHILS																		
" EOSINOPHILS																		
LYMPHOCYTES, SMALL																		
" LARGE MONONUCLEARS																		
MYELOCYTES, NEUTROPHILS																		
" EOSINOPHILS																		
NUCLEATED RED CELLS																		

Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

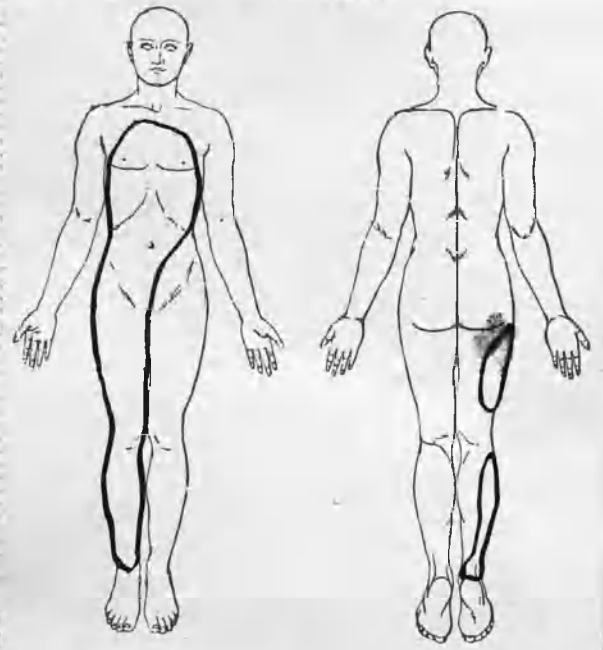
Date	Red	White
1907		
Dec 9 th	Scalded	
" 9	4,700,000	23,750
" 11	6,350,000	27,500
" 13	5,500,000	12,150

Name James Butler
Age 11 mths

Date of Accident Dec. 9th 1907

Cause of Scalds Hot Tea

Extent of Degree of Scalding Front of chest, abdomen & front of right leg; mostly 1st, but patches of 2nd degree.



Result Died on Dec. 15

HAEMATOLOGICAL CHART.

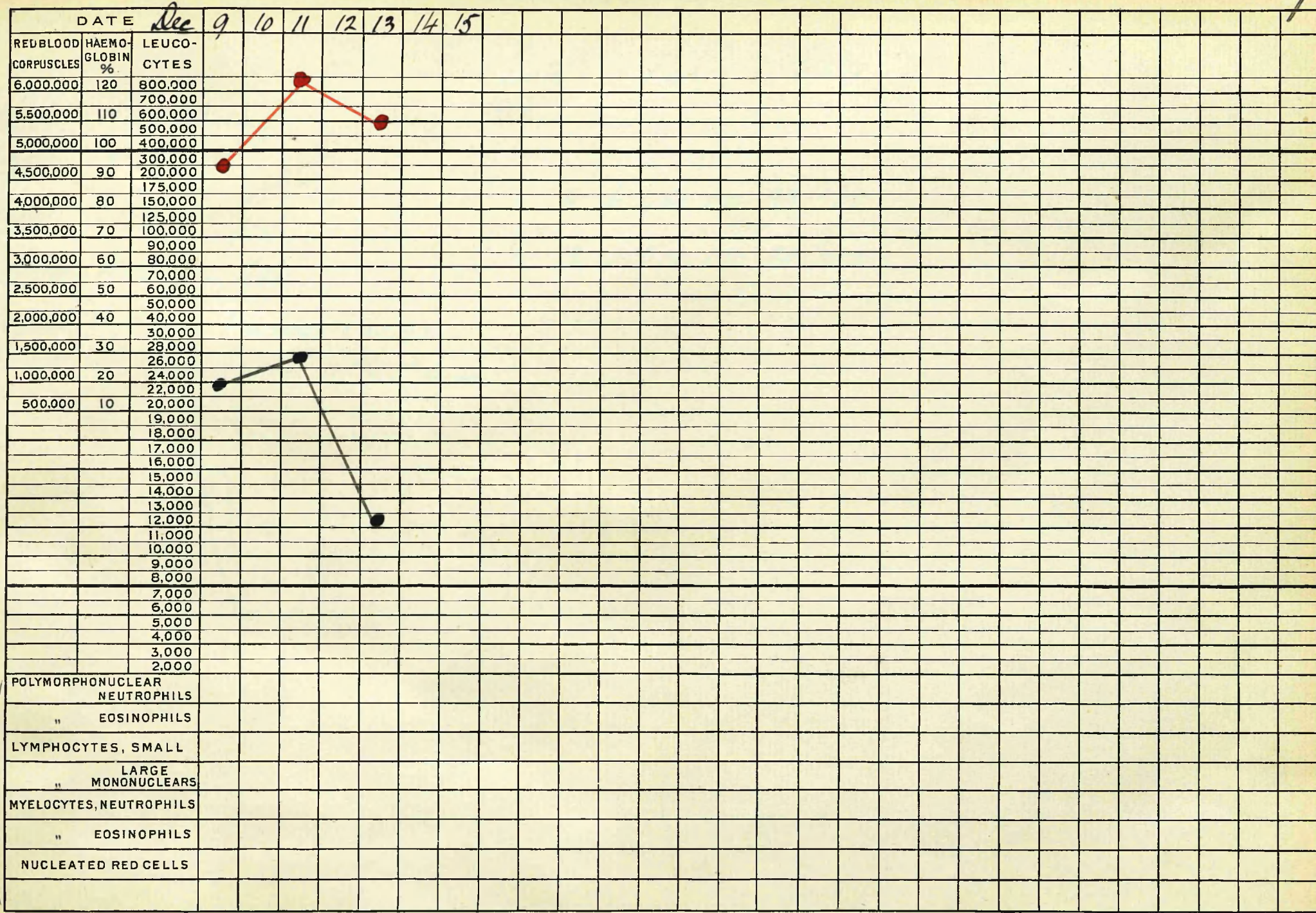
9

Name
James Butler

Age
11 mths.

Disease

Notes

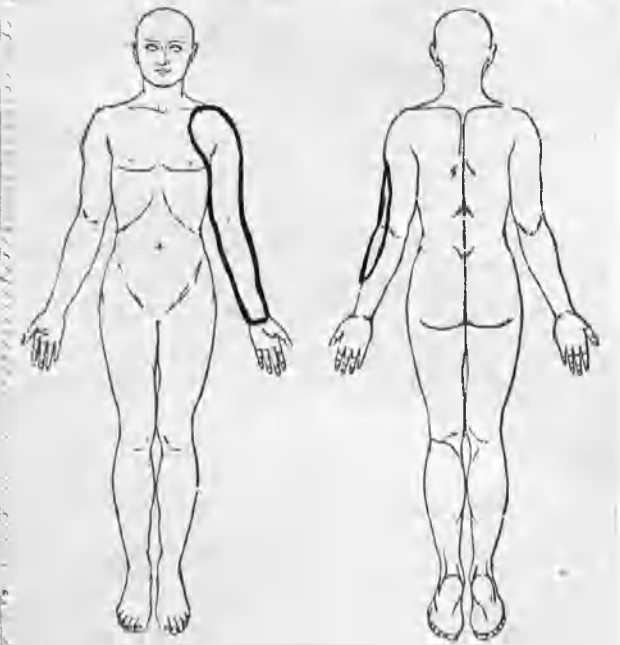


Differential
Count
per cent.

Blood count

Name Jessie Stirling
Age 3 yrs.
Date of Accident April 6th 1908
Cause of Burns Clothing on Fire
Extent & Degree of Burns Left arm - from wrist to shoulder - on flexor surface; 3rd & 4th degrees

Date	Red	White
1908 April 6	Burned	
" 8	6,950,000	33,500
" 12	5,500,000	20,000



Result Died on April 13th

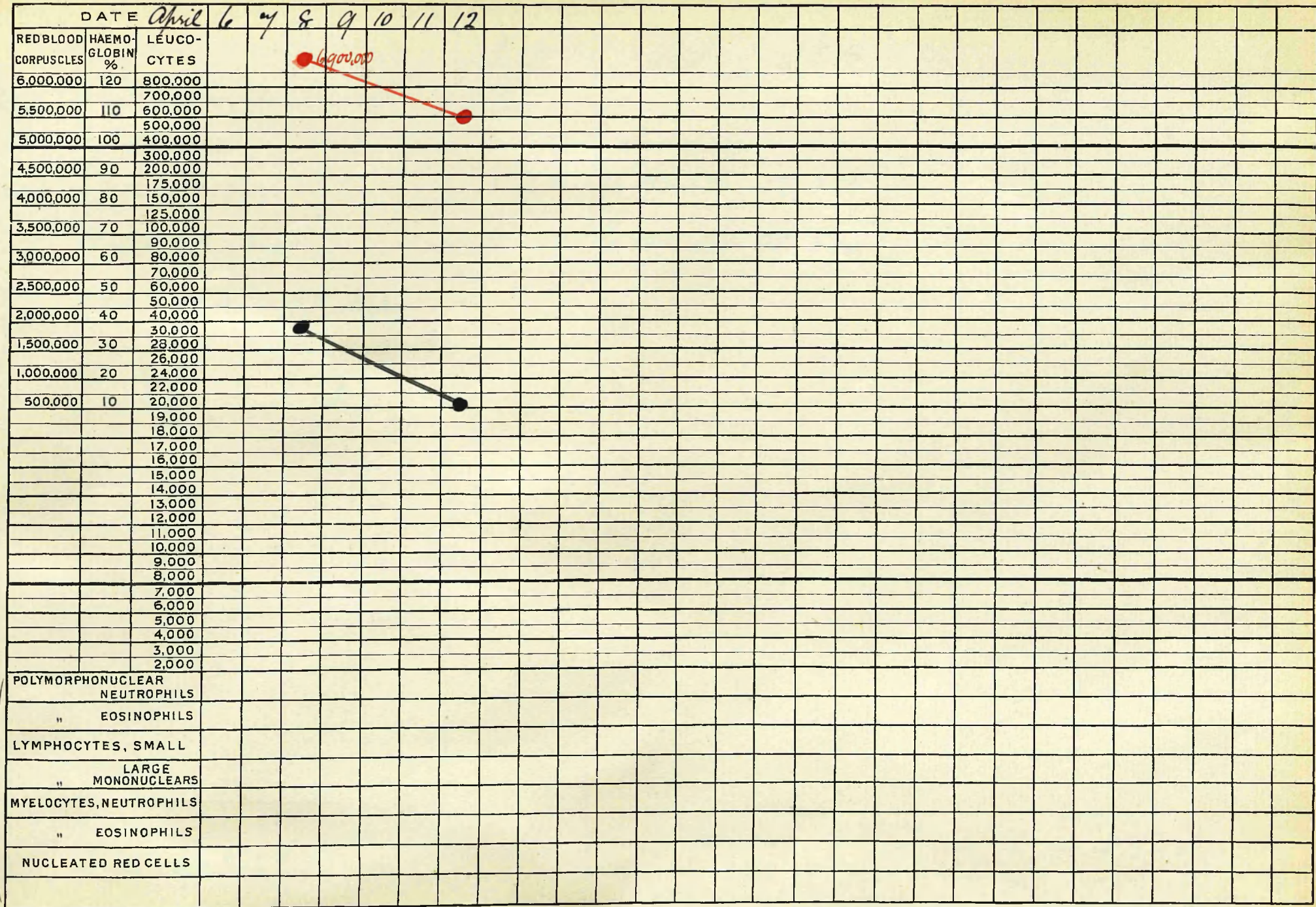
HAEMATOLOGICAL CHART.

Name
Jessie Stirling

Age
3 yrs.

Disease

Notes



Differential
Count
per cent.

RED CORPUSCLES — BLACK

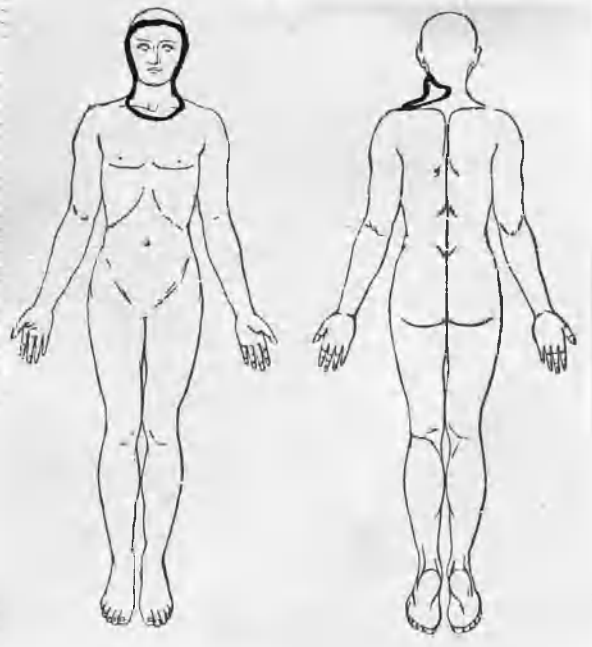
HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Andrew Lockhead
Age yrs.
Date of Accident April 7th 1908
Cause of Burns Muffler on Fire
Extent & Degree of Burning Face & neck - 3rd degree

Date	Red	White
<u>1908</u> April 7 Burned		
" 8	9,500,000	27,500
" 12	6,150,000	22,500



Result Died April 12th

HAEMATOLOGICAL CHART.

Name

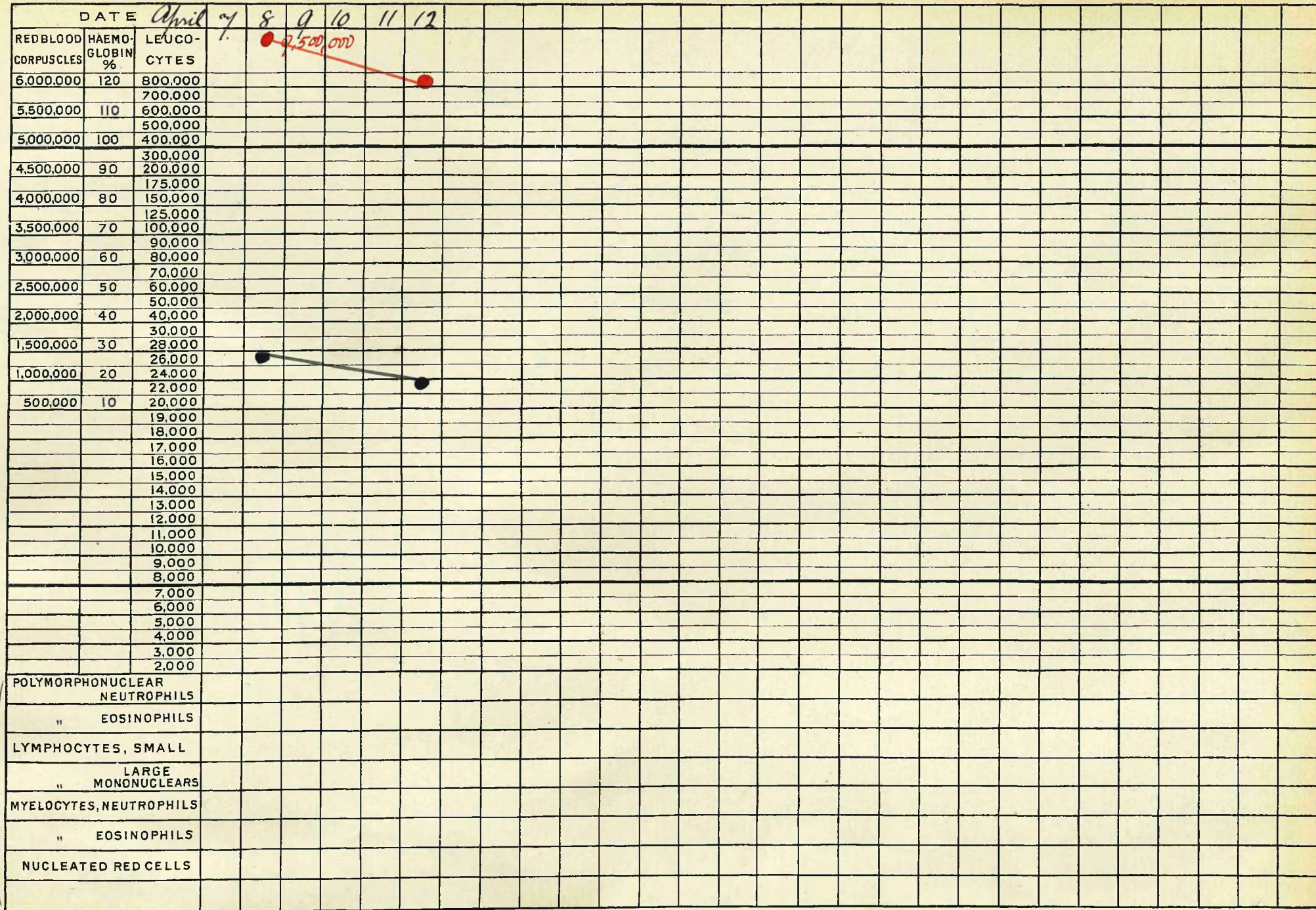
Andrew Lochhead

Age

47 yrs.

Disease

Notes



Differential Count per cent.

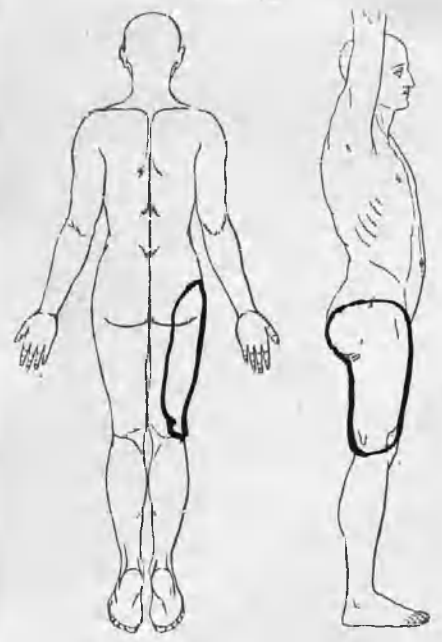
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Name Mrs. Thisholm
Age 54 yrs
Date of Accident Dec. 12th 1907
Cause of Burns Boiling tea.
Extent & Degree of Scalding Thigh as shown: 2nd & 3rd degrees.



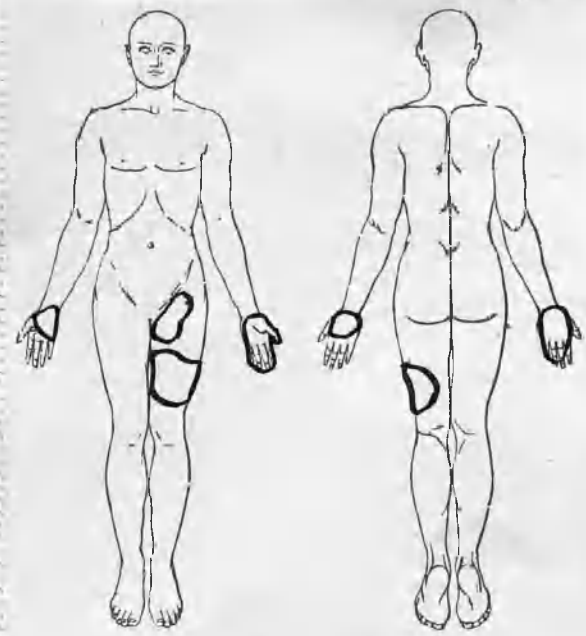
Date	Red	White
1907		
Dec 19 th	Scalded	
" 13	6,400,000	41,500
" 16	6,000,000	20,000
" 18	5,800,000	13,150
" 21	6,250,000	20,625

Result Died Dec 22nd

Blood count

Name Barbara M. Ausland
Age 18 mths.
Date of Accident Dec. 14th 1907
Cause of Burns clothing on fire
Extent & Degree of Burning Thigh & hands, mostly 2nd degree

Date	Red	White
1907 Dec 14 th	Burned	
" 14	5,850,000	16,650
" 16	5,350,000	16,875



Result Died on Dec 16th

Blood count

Date	Red	White
1907		
Dec. 23 Burned		
" 23	7,350,000	17,500
" 27	4,500,000	16,875

Name Mrs. M^cGuigan

Age 56 yrs

Date of Accident Dec. 23rd 1907

Cause of Burns Flames from ignited fat, when cooking

Extent & Degree of Burning Face, chiefly 2nd degree, neck 2nd degree, forearms, flexor surfaces 3rd degree



Result Died Dec. 29th

HAEMATOLOGICAL CHART.

114

Name

Mrs Mc Guigan

Age

56 yrs.

Disease

Notes

DATE	Dec	23	24	25	26	27	28	29												
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES																		
6,000,000	120	800,000																		
		700,000																		
5,500,000	110	600,000																		
		500,000																		
5,000,000	100	400,000																		
		300,000																		
4,500,000	90	200,000																		
		175,000																		
4,000,000	80	150,000																		
		125,000																		
3,500,000	70	100,000																		
		90,000																		
3,000,000	60	80,000																		
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2,500,000	50	60,000																		
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POLYMPHONUCLEAR NEUTROPHILS																				
" EOSINOPHILS																				
LYMPHOCYTES, SMALL																				
" LARGE MONONUCLEARS																				
MYELOCYTES, NEUTROPHILS																				
" EOSINOPHILS																				
NUCLEATED RED CELLS																				

Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

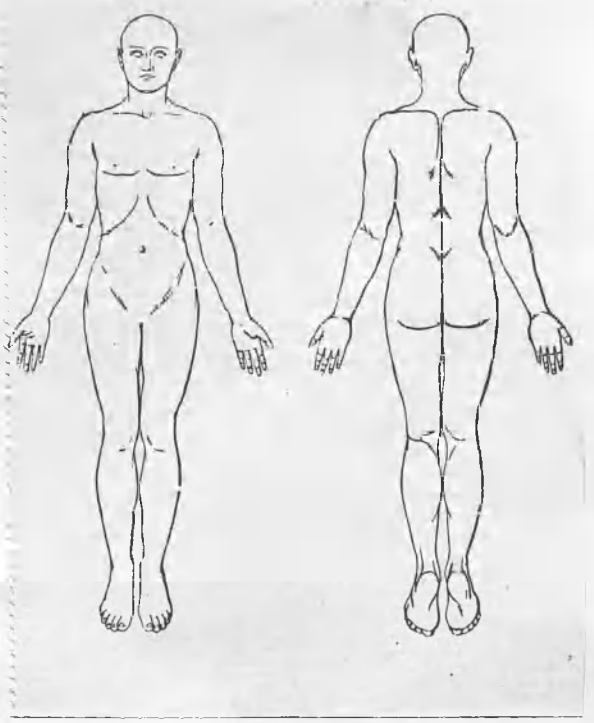
LEUCOCYTES - BLUE

Blood Count

Name Mrs Lyons
Age ~15 yrs
Date of Accident Dec. 26th 1904
Cause of Burns clothing on fire
Extent & Degree of Burns Back, left thigh, abdomen, chest, left arm & right hand as shown: mostly 3rd degree

Date	Red	White
1904 Dec 26 Burned		
" 26	4,937,500	30,625
" 27	5,400,000	23,125

Not marked



Result Died on Dec 27th

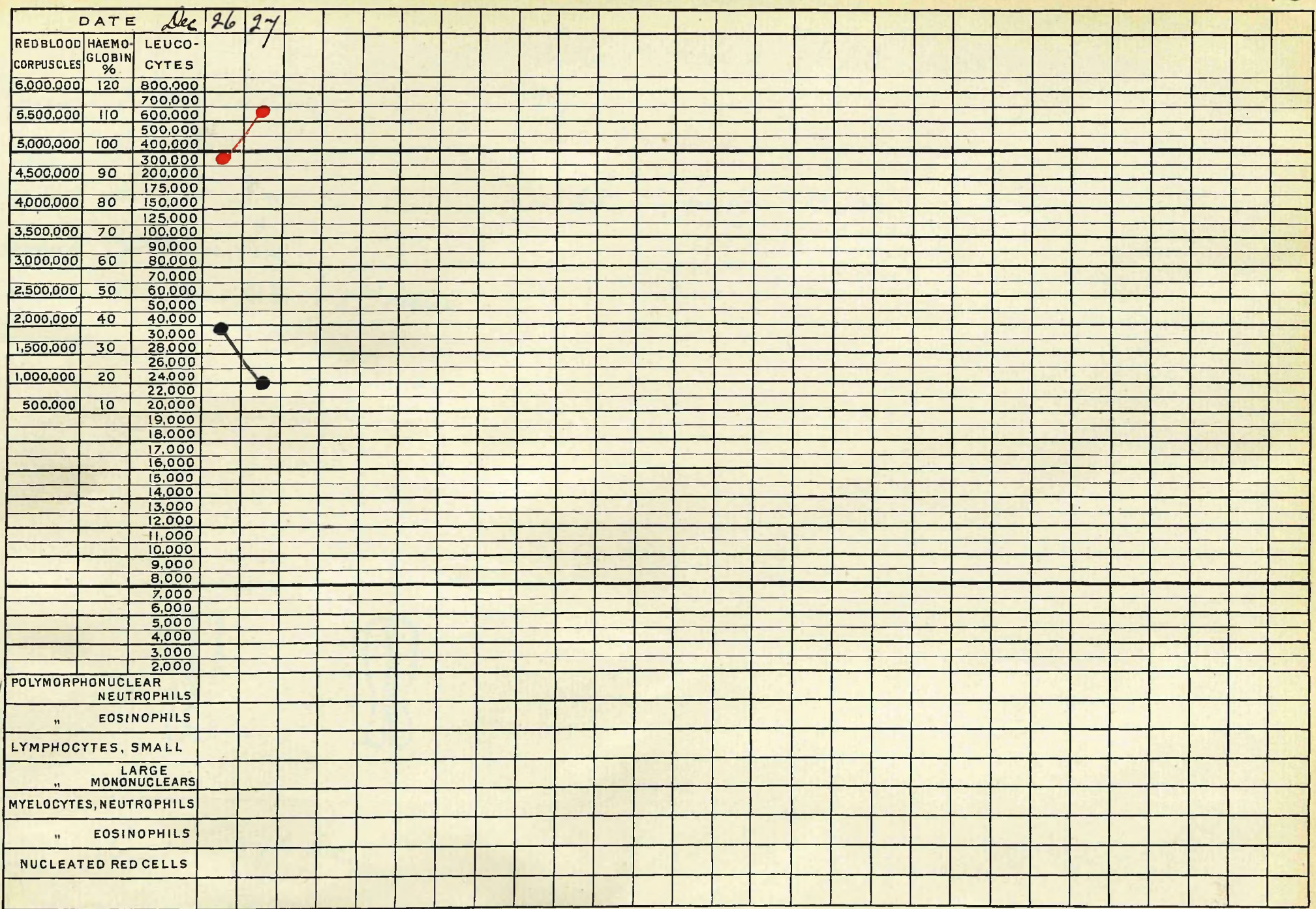
HAEMATOLOGICAL CHART.

Name Mrs. Lyons

Age 45 yrs.

Disease

Notes



Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

(Copyright) London, H. K. Lewis.

Designed by Edward Turton, M.D., B.Sc., M.R.C.P., Hull.

Blood count

Date	Red	White
1904		
Dec 28 Burned		
" 28	4,700,000	15,000

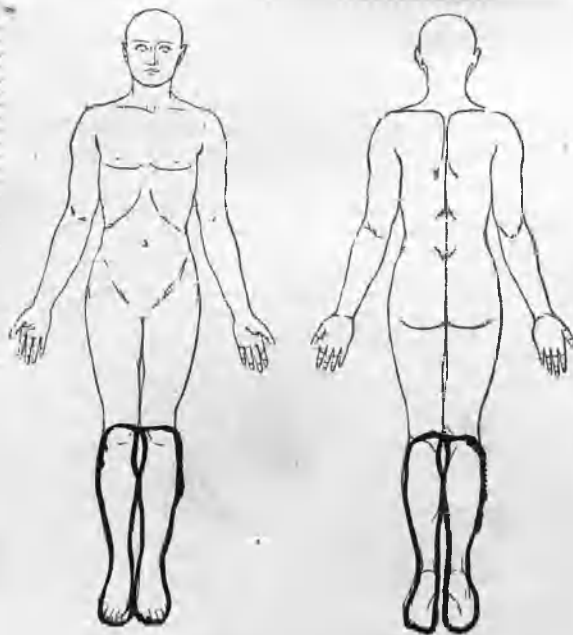
Name Neil M. Arthur

Age 6 weeks

Date of Accident Dec. 28th 1904

Cause of Burns Clothes on Fire

Extent & degree of Burning Both legs & feet : 3rd degree



Result

Died on 29th Dec

Name
Neil McArthur

Age
6 weeks

Disease

Notes

DATE																	
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES															
6,000,000	120	800,000															
		700,000															
5,500,000	110	600,000															
		500,000															
5,000,000	100	400,000															
		300,000															
4,500,000	90	200,000															
		175,000															
4,000,000	80	150,000															
		125,000															
3,500,000	70	100,000															
		90,000															
3,000,000	60	80,000															
		70,000															
2,500,000	50	60,000															
		50,000															
2,000,000	40	40,000															
		30,000															
1,500,000	30	28,000															
		26,000															
1,000,000	20	24,000															
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POLYMORPHONUCLEAR NEUTROPHILS																	
" EOSINOPHILS																	
LYMPHOCYTES, SMALL																	
" LARGE MONONUCLEARS																	
MYELOCYTES, NEUTROPHILS																	
" EOSINOPHILS																	
NUCLEATED RED CELLS																	

Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

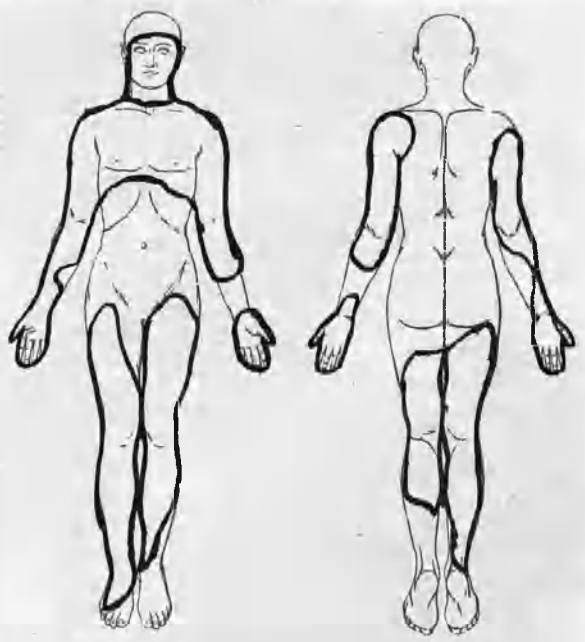
Date	Red	White
1904		
Dec 31 Burned		
" 31	3,400,000	68,000

Name Agnes M^cColl
Age 6 yrs

Date of Accident Dec. 31st 1904

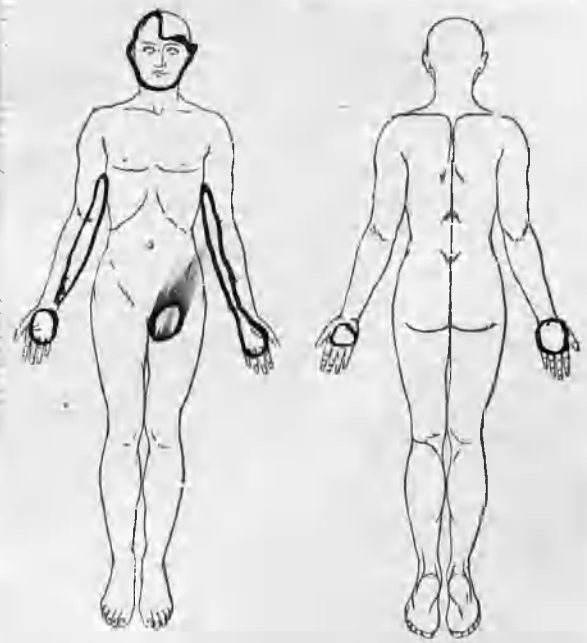
Cause of Burns Clothing on Fire

Extent & Degree of Burning Face & hands, most of arms, legs, & front of thorax, mostly 2nd, but partly 3rd degree



Result Died on Jan 1st 1908

Name Maggie Riley
Age 8 yrs.
Date of Accident Dec. 31st 1904
Cause of Burns Clothing on fire
Extent & Degree of Burning Face & ears 3rd degree,
 Arms & hands as shown, 2nd degree
 Patch in left inguinal region 3rd degree



Blood count

Date	Red	White
<u>1904</u>		
Dec. 31	Burned	
" 31	8,500,000	48,750
<u>1905</u>		
Jan. 1	9,050,000	53,000
" 2		50,250

Result Died on Jan 2nd

HAEMATOLOGICAL CHART.

Name
Maggie Riley

Age
8 yrs.

Disease

Notes

DATE		<i>Jan</i>			
		<i>Dec. 31</i>	<i>1</i>	<i>2</i>	<i>3</i>
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES			
6,000,000	120	800,000	8,500,000	9,030,000	
5,500,000	110	700,000			
5,000,000	100	600,000			
4,500,000	90	500,000			
4,000,000	80	400,000			
3,500,000	70	300,000			
3,000,000	60	200,000			
2,500,000	50	175,000			
2,000,000	40	150,000			
1,500,000	30	125,000			
1,000,000	20	100,000			
500,000	10	90,000			
		80,000			
		70,000			
		60,000			
		50,000			
		40,000			
		30,000			
		28,000			
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		2,000			
POLYMPHONUCLEAR NEUTROPHILS					
" EOSINOPHILS					
LYMPHOCYTES, SMALL					
" LARGE MONONUCLEARS					
MYELOCYTES, NEUTROPHILS					
" EOSINOPHILS					
NUCLEATED RED CELLS					

Differential Count per cent.

RED CORPUSCLES - BLACK

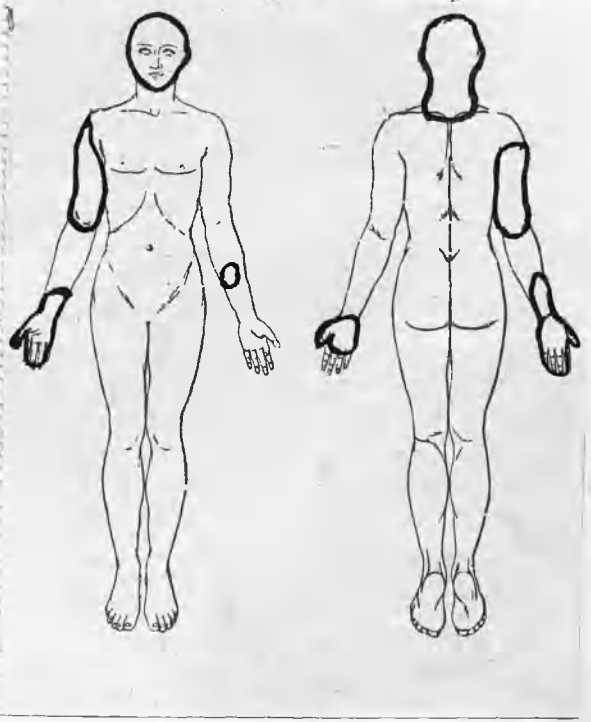
HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood Count

Name George Loan
Age 3 yrs.
Date of Accident Jun. 2nd 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Face, scalp, neck, arms etc as shown, mostly 3rd degree

Date	Red	White
1908 Jun 2 nd	Scalded	
" 2	8,150,000	46,500



Result Died Jan 2nd

HAEMATOLOGICAL CHART.

DATE		Jun	2																								
REDBLOOD CORPUSCLES	HAEMO- GLOBIN %	LEUCO- CYTES																									
6,000,000	120	800,000	● 8150,000																								
		700,000																									
5,500,000	110	600,000																									
		500,000																									
5,000,000	100	400,000																									
		300,000																									
4,500,000	90	200,000																									
		175,000																									
4,000,000	80	150,000																									
		125,000																									
3,500,000	70	100,000																									
		90,000																									
3,000,000	60	80,000																									
		70,000																									
2,500,000	50	60,000																									
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POLYMORPHONUCLEAR NEUTROPHILS																											
" EOSINOPHILS																											
LYMPHOCYTES, SMALL																											
" LARGE MONONUCLEARS																											
MYELOCYTES, NEUTROPHILS																											
" EOSINOPHILS																											
NUCLEATED RED CELLS																											

Name
George Loan

Age
3 yrs.

Disease

Notes

Differential Count per cent.

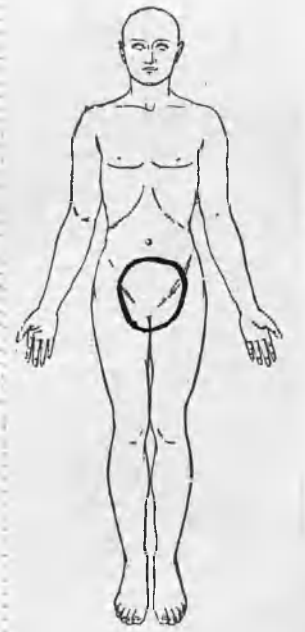
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Maggie McLaughlan
Age 5 yrs
Date of Accident Jan. 1st 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Hypogastric region & vulva: mostly 2nd degree



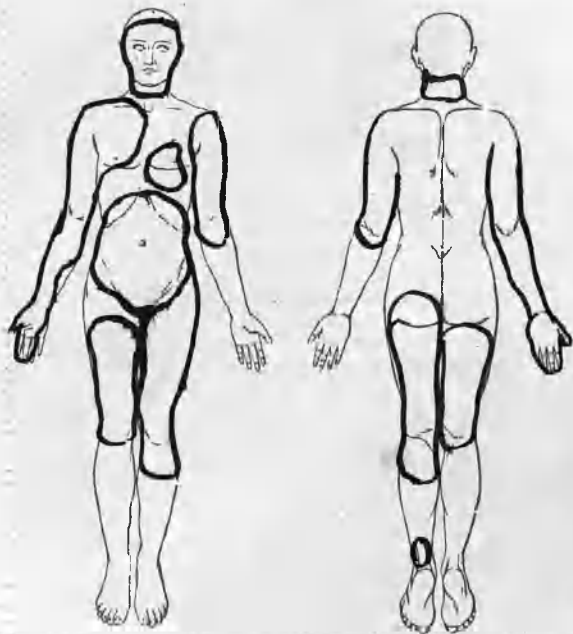
Date	Red	White
1908 Jan 1 st Burned		
" 1	7,200,000	35,000
" 2	6,100,000	45,625

Result Died on Jan. 3rd

Blood count

Name Mary Brown
Age 40 yrs
Date of Accident Jan. 11th 1908
Cause of Burns clothing on fire.
Extent & Degree of Burning Arms, chest, abdomen, legs all to 3rd & 4th degrees.

Date	Red	White
<u>1908</u> Jan 11 Burned		
" 11	5,650,000	20,625



Result Died on Jan. 11th

HAEMATOLOGICAL CHART.

Name
Mary Brown

Age
40 yrs

Disease

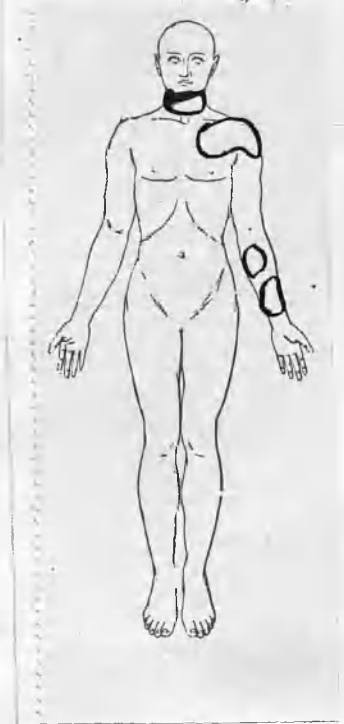
Notes

DATE			<i>Jan 11</i>	
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES		
6,000,000	120	800,000		
		700,000		
5,500,000	110	600,000	●	
		500,000		
5,000,000	100	400,000		
		300,000		
4,500,000	90	200,000		
		175,000		
4,000,000	80	150,000		
		125,000		
3,500,000	70	100,000		
		90,000		
3,000,000	60	80,000		
		70,000		
2,500,000	50	60,000		
		50,000		
2,000,000	40	40,000		
		30,000		
1,500,000	30	28,000		
		26,000		
1,000,000	20	24,000		
		22,000		
500,000	10	20,000	●	
		19,000		
		18,000		
		17,000		
		16,000		
		15,000		
		14,000		
		13,000		
		12,000		
		11,000		
		10,000		
		9,000		
		8,000		
		7,000		
		6,000		
		5,000		
		4,000		
		3,000		
		2,000		
POLYMORPHONUCLEAR NEUTROPHILS				
" EOSINOPHILS				
LYMPHOCYTES, SMALL				
" LARGE MONONUCLEARS				
MYELOCYTES, NEUTROPHILS				
" EOSINOPHILS				
NUCLEATED RED CELLS				

Differential Count per cent.

RED CORPUSCLES - BLACK HAEMOGLOBIN - RED LEUCOCYTES - BLUE

Name Esther Benson
 Age 1 yr 10 mths
 Date of Accident Jan. 1st 1908
 Cause of Burns Clothes on Fire
 Extent & Degree of Burns Left Arm, chest 9 chin as shown
 2nd degree



Result Died on Jan 19th

Blood count		
Date	Red	White
1908		
Jan 1 st	Burned	
" 1 st	8,800,000	25,000
" 18	8,050,000	25,625

HAEMATOLOGICAL CHART.

Name
Esther Benson

Age
1 1/2 10 mths.

Disease

Notes

DATE	Jan.	17	18	19															
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES																	
6,000,000	120	800,000																	
		700,000																	
5,500,000	110	600,000																	
		500,000																	
5,000,000	100	400,000																	
		300,000																	
4,500,000	90	200,000																	
		175,000																	
4,000,000	80	150,000																	
		125,000																	
3,500,000	70	100,000																	
		90,000																	
3,000,000	60	80,000																	
		70,000																	
2,500,000	50	60,000																	
		50,000																	
2,000,000	40	40,000																	
		30,000																	
1,500,000	30	28,000																	
		26,000																	
1,000,000	20	24,000																	
		22,000																	
500,000	10	20,000																	
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		POLYMORPHONUCLEAR NEUTROPHILS																	
		" EOSINOPHILS																	
		LYMPHOCYTES, SMALL																	
		" LARGE MONONUCLEARS																	
		MYELOCYTES, NEUTROPHILS																	
		" EOSINOPHILS																	
		NUCLEATED RED CELLS																	

Differential Count per cent.

RED CORPUSCLES - BLACK HAEMOGLOBIN - RED LEUCOCYTES - BLUE

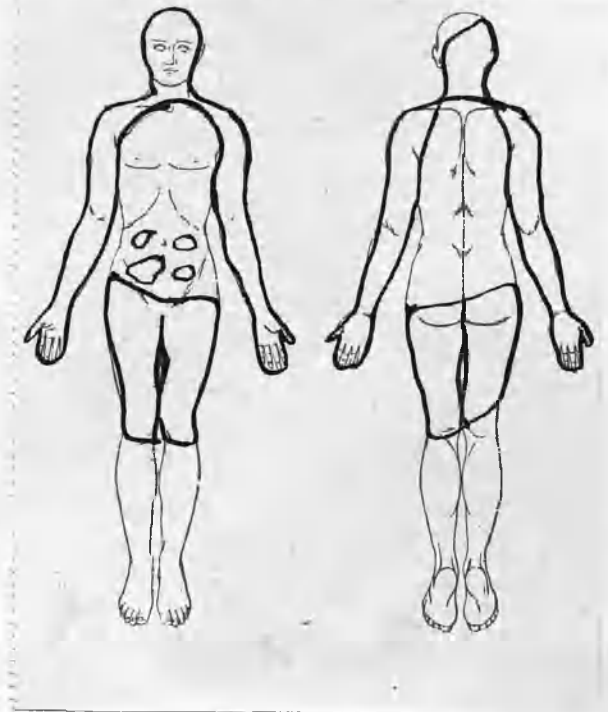
(Copyright) London, H. K. Lewis.

Designed by Edward Turton, M.D., B.Sc., M.R.C.P., Hull.

Blood count

Name Mrs. Hawkes
Age 50 yrs
Date of Accident Jan. 25th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Arms, face, neck & scalp, to 3rd & 4th degrees: Thighs to 2nd degree

Date	Red	White
1908		
Jan 25 Burned		
" 25	5,250,000	8,750



Result Died on 26th inst.

HAEMATOLOGICAL CHART.

Name

Mrs. Hawkes

Age

Act. 50 yrs.

Disease

Notes

DATE	HAEMO- GLOBIN %	LEUCO- CYTES																				
6,000,000	120	800,000																				
5,500,000	110	700,000																				
5,000,000	100	600,000																				
4,500,000	90	500,000																				
4,000,000	80	400,000																				
3,500,000	70	300,000																				
3,000,000	60	200,000																				
2,500,000	50	175,000																				
2,000,000	40	150,000																				
1,500,000	30	125,000																				
1,000,000	20	100,000																				
500,000	10	90,000																				
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		POLYMORPHONUCLEAR NEUTROPHILS																				
		" EOSINOPHILS																				
		LYMPHOCYTES, SMALL																				
		" LARGE MONONUCLEARS																				
		MYELOCYTES, NEUTROPHILS																				
		" EOSINOPHILS																				
		NUCLEATED RED CELLS																				

Differential
Count
per cent.

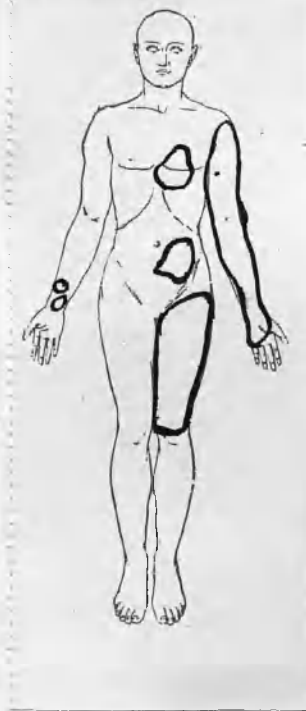
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Marion Aitken
Age 4 yrs.
Date of Accident Jan 26th 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Arms, legs, abdomen, chest as shown, mostly 3rd degree.



Result Died on 27th Jan.

Date	Red	White
1908		
Jan 26 Scalded		
" 26	4,100,000	41,500

HAEMATOLOGICAL CHART.

24

DATE <i>Jun 26 2nd</i>																				
REDBLOOD CORPUSCLES	HAEMO-GLOBIN %	LEUCO-CYTES																		
6,000,000	120	800,000																		
		700,000																		
5,500,000	110	600,000																		
		500,000																		
5,000,000	100	400,000																		
		300,000																		
4,500,000	90	200,000																		
		175,000																		
4,000,000	80	150,000	●																	
		125,000																		
3,500,000	70	100,000																		
		90,000																		
3,000,000	60	80,000																		
		70,000																		
2,500,000	50	60,000																		
		50,000																		
2,000,000	40	40,000	●																	
		30,000																		
1,500,000	30	28,000																		
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		2,000																		
POLYMORPHONUCLEAR NEUTROPHILS																				
" EOSINOPHILS																				
LYMPHOCYTES, SMALL																				
" LARGE MONONUCLEARS																				
MYELOCYTES, NEUTROPHILS																				
" EOSINOPHILS																				
NUCLEATED RED CELLS																				

Name
Marion Aitken

Age
4 yrs.

Disease

Notes

Differential
Count
per cent.

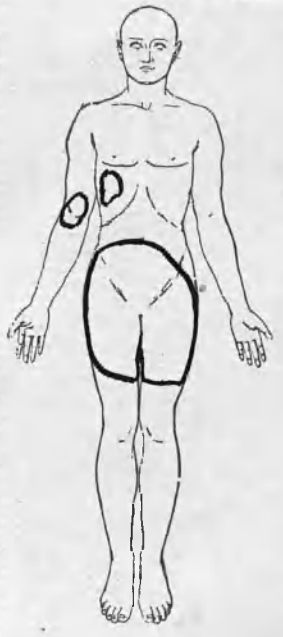
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Name Mary Mc Bride
Age 22 yrs.
Date of Accident Jan 27th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Thighs, abdomen, vulva, arm, as shown
 all 3rd degree



Result Died Jan 31st

Date	Red	White
<u>1908</u>		
Jan 27 Burned		
" 27	6,600,000	39,000
" 27	8,700,000	46,250

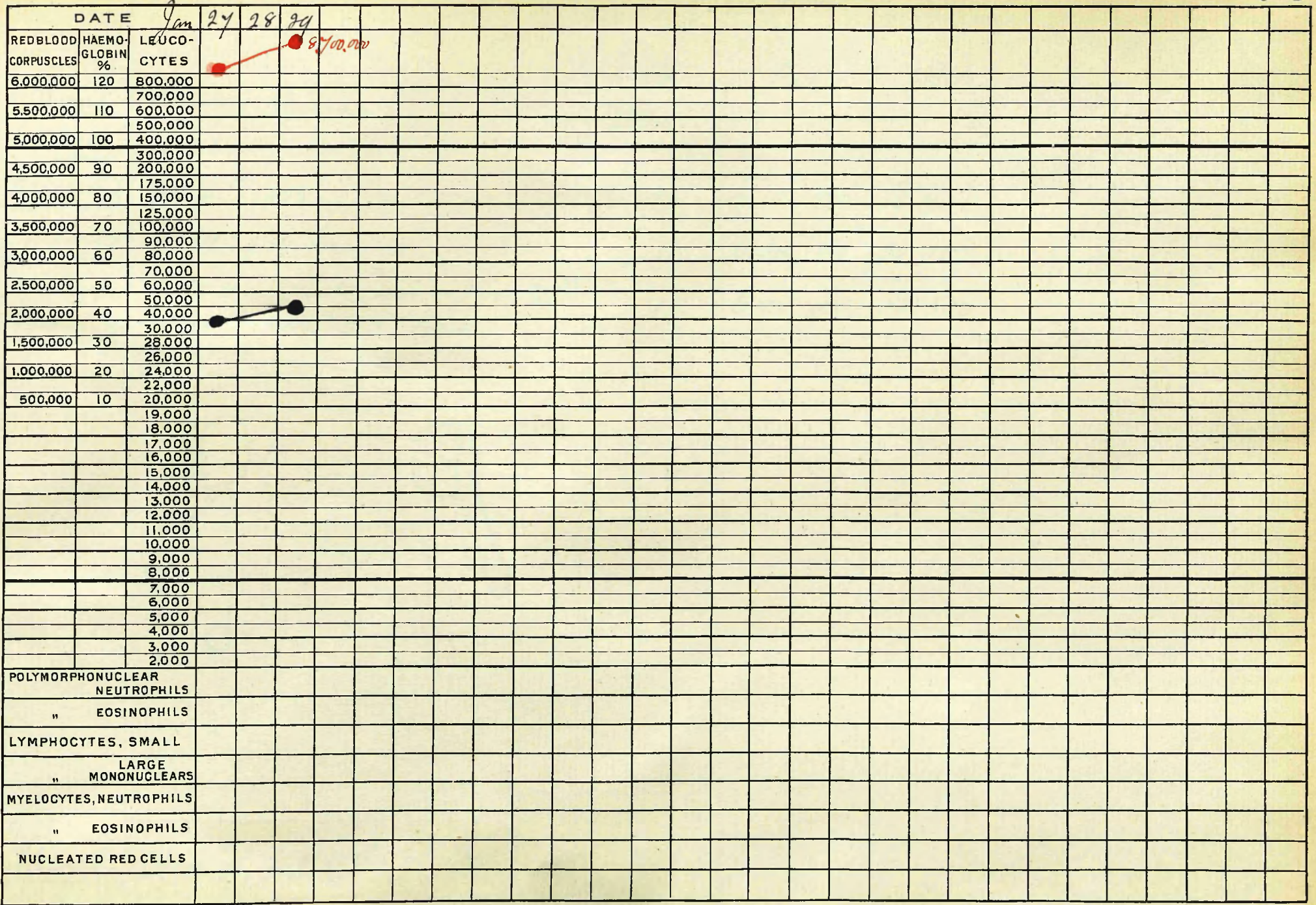
HAEMATOLOGICAL CHART.

Name
Mary Mc Bride

Age
22 yrs

Disease

Notes



Differential
Count
per cent.

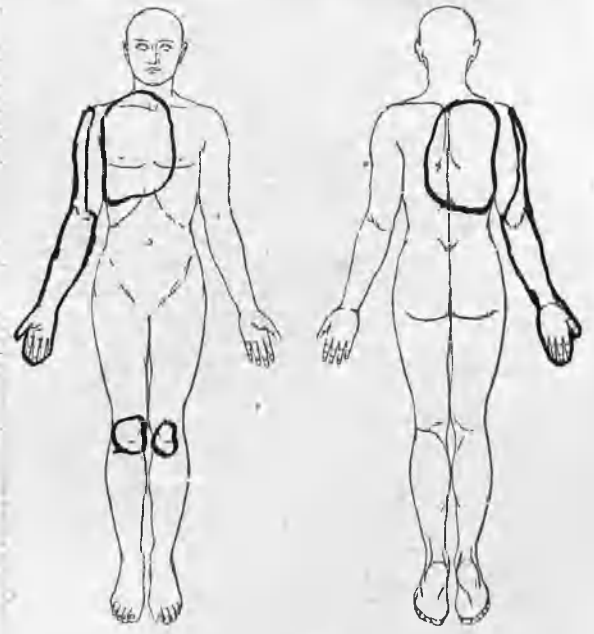
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood Count

Name Maggie Dennison
Age 11 yrs.
Date of Accident Feb. 6th 1908
Cause of Burns clothing on fire
Extent & Degree of Burning Right arm, chest & back as shown to 3rd degree. Knees to 2nd degree



Date	Red	White
1908 Feb. 6 th Burned		
" 7	1,100,000	18,750
" 11	6,600,000	30,000
" 14	6,000,000	52,500

Result Died on Feb. 16th

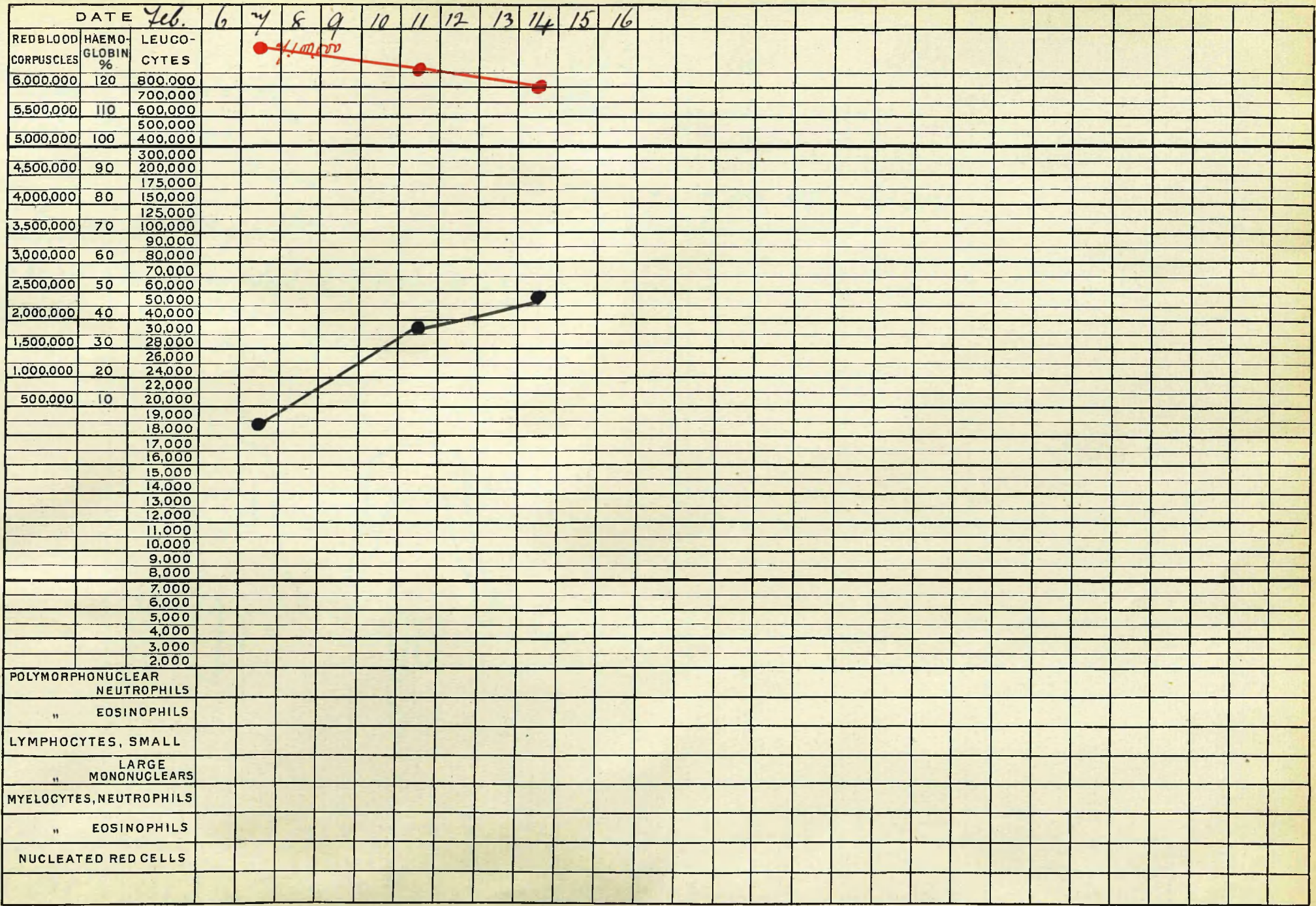
HAEMATOLOGICAL CHART.

Name *Maggie Dennis*

Age *11 yrs*

Disease

Notes

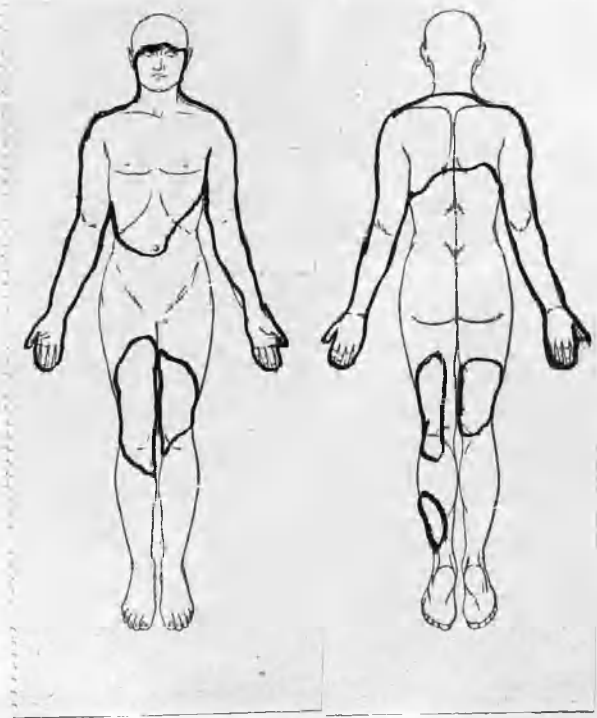


Differential Count per cent.

Blood count

Name Mrs. Woods
Age 4th yrs
Date of accident March 7th 1908
Cause of Burns clothing on fire
Extent & degree of Burning Face, arms, chest, 2nd degree with patches of 3rd degree
 Back & legs 2nd degree

Date	Red	White
1908		
March 7 th	Burned	
" 7 th	7,000,000	60,000



Result Died on March 8th

Blood count

Date	Red	White
1908		
March 14 Burned		
" 16	6,900,000	38,100

Name

John Brown

Age

52 yrs.

Date of Accident

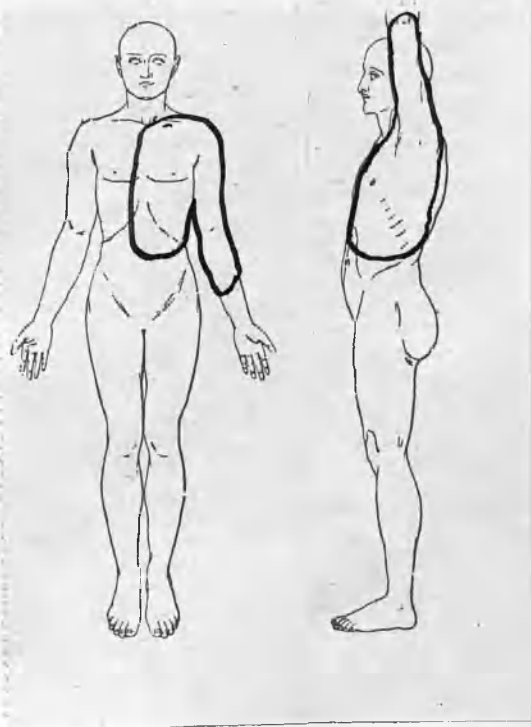
March 14th 1908

Cause of Burns

Clothes on Fire

Extent & Degree of Burning

Left arm, 4th degree :
left side of chest, 3rd degree

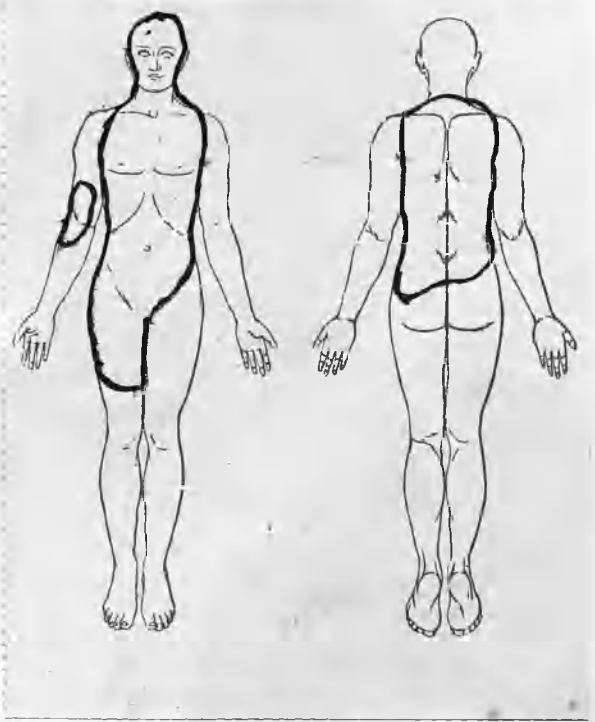


Result

Died on March 16th

Blood count

Name Quintin Mullrae
Age 25 yrs.
Date of Accident March 23rd, 1908
Cause of Burns Flame from Furnace
Extent & Degree of Burning Face, neck, chest, abdomen, back & front of right thigh to 2nd & 3rd degrees.



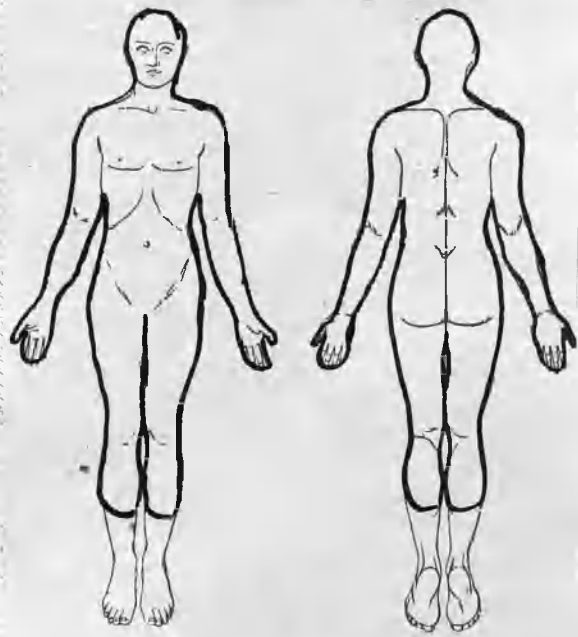
Result Died on March 23rd

Date	Red	White
1908		
March 23 Burned		
" 23	11,000,000	44,200

Blood count

Name Lizzie Macaloney
Age 9 yrs.
Date of Accident March 1st 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Whole of Body to 3rd degree, except lower half of each leg

Date	Red	White
<u>1908</u>		
March 1 st Burned		
" 1 st	2,800,000	128,000



Result Died on March 1st

HAEMATOLOGICAL CHART.

Name
Lizzie Macaloney

Age
9 yrs.

Disease

Notes

DATE		REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES																				
	<i>Mar 1st</i>			<i>1,500,000</i>																				
		6,000,000	120	800,000																				
				700,000																				
		5,500,000	110	600,000																				
				500,000																				
		5,000,000	100	400,000																				
				300,000																				
		4,500,000	90	200,000																				
				175,000																				
		4,000,000	80	150,000																				
				125,000																				
		3,500,000	70	100,000																				
				90,000																				
		3,000,000	60	80,000																				
				70,000																				
		2,500,000	50	60,000																				
				50,000																				
		2,000,000	40	40,000																				
				30,000																				
		1,500,000	30	28,000																				
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Differential Count per cent.	POLYMORPHONUCLEAR NEUTROPHILS																							
	" EOSINOPHILS																							
	LYMPHOCYTES, SMALL																							
	" LARGE MONONUCLEARS																							
	MYELOCYTES, NEUTROPHILS																							
	" EOSINOPHILS																							
	NUCLEATED RED CELLS																							

RED CORPUSCLES — BLACK

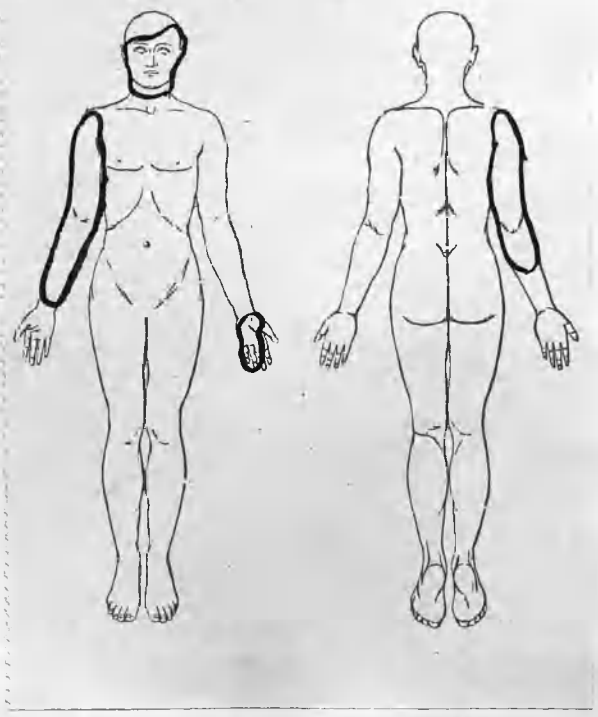
HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Jessie Bloss
Age 6 yrs
Date of Accident March 19th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Face, 3rd degree chiefly
 Right Arm, 3rd degree chiefly
 Left hand, 2nd degree

Date	Red	White
<u>1908</u>		
March 19	Burned	
" 20	4,350,000	102,000



Result Died on March 20th

HAEMATOLOGICAL CHART.

Name
Jessie Bloss

Age
6 yrs.

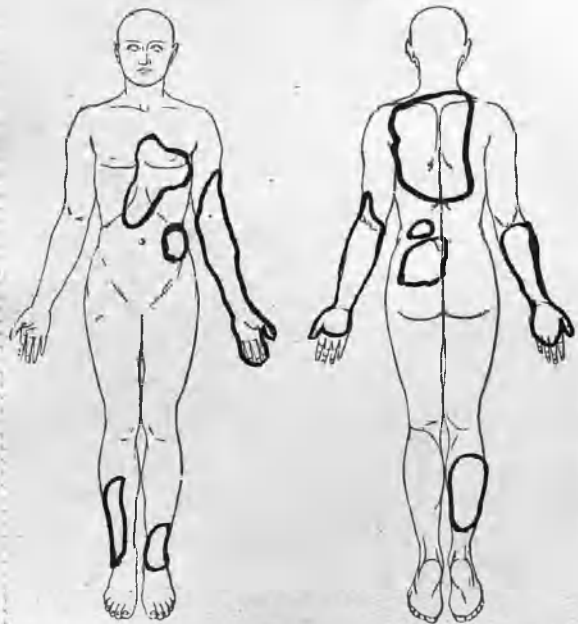
Disease

Notes

DATE	Mar. 19	20																			
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES																			
6,000,000	120	800,000																			
		700,000																			
5,500,000	110	600,000																			
		500,000																			
5,000,000	100	400,000																			
		300,000																			
4,500,000	90	200,000																			
		175,000																			
4,000,000	80	150,000																			
		125,000																			
3,500,000	70	100,000																			
		90,000																			
3,000,000	60	80,000																			
		70,000																			
2,500,000	50	60,000																			
		50,000																			
2,000,000	40	40,000																			
		30,000																			
1,500,000	30	28,000																			
		26,000																			
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		3,000																			
		2,000																			
		POLYMORPHONUCLEAR NEUTROPHILS																			
		" EOSINOPHILS																			
		LYMPHOCYTES, SMALL																			
		" LARGE MONONUCLEARS																			
		MYELOCYTES, NEUTROPHILS																			
		" EOSINOPHILS																			
		NUCLEATED RED CELLS																			

Differential Count per cent.

Name William Macpherson
Age 34 yrs
Date of Accident March 26th 1908
Cause of Scalds Almost boiling water
Extent & Degree of Scalding Left Arm, 3rd degree
Right Arm, 3rd degree
Chest & Back as shown, 3rd degree
Legs as shown, 2nd degree

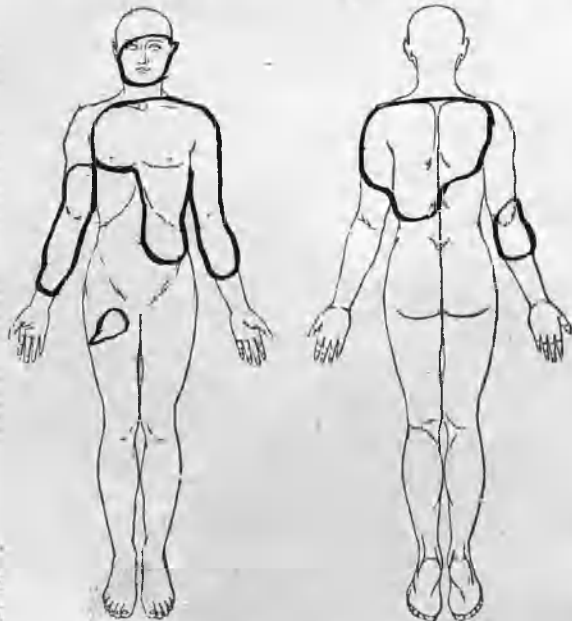


Result Died March 29th

Blood count

<u>Date</u> 1908	Red	White
March 26	Scalded	
" 27	7,050,000	17,500

Name Catherine Fox
Age 3 yrs.
Date of Accident March 29th 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Face, 3rd degree
 Chest, 2nd degree
 Back, 2nd degree
 Arms, 3rd degree
 Abdomen & legs, 2nd degree, as shown

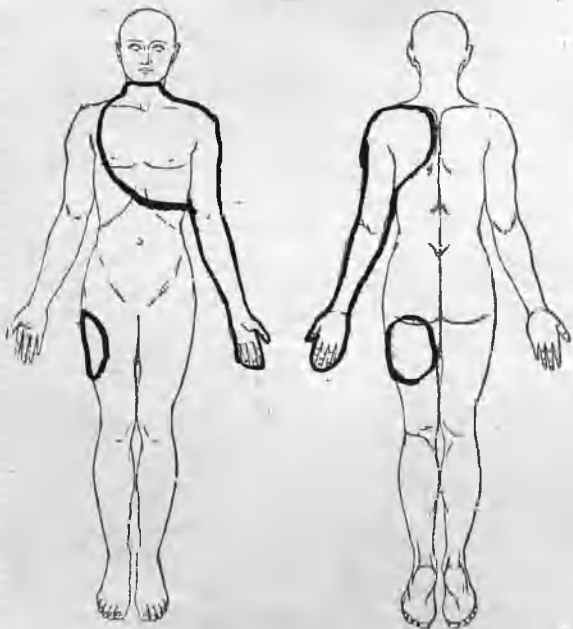


Result Died on March 30th

Blood Count

Date	Red	White
<u>1908</u>		
March 29 Scalded		
" 29	9,350,000	66,800

Name Helen Reid
Age 45 yrs
Date of Accident March 29th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Chest & left arm as shown, 4th degree
 Back & right leg as shown, 3rd degree



Result Died on April 8th

Blood Count

Date	Red	White
1908		
March 29 Burned		
" 29	5,600,000	35,000
April 2	5,500,000	37,500
" 8		15,625

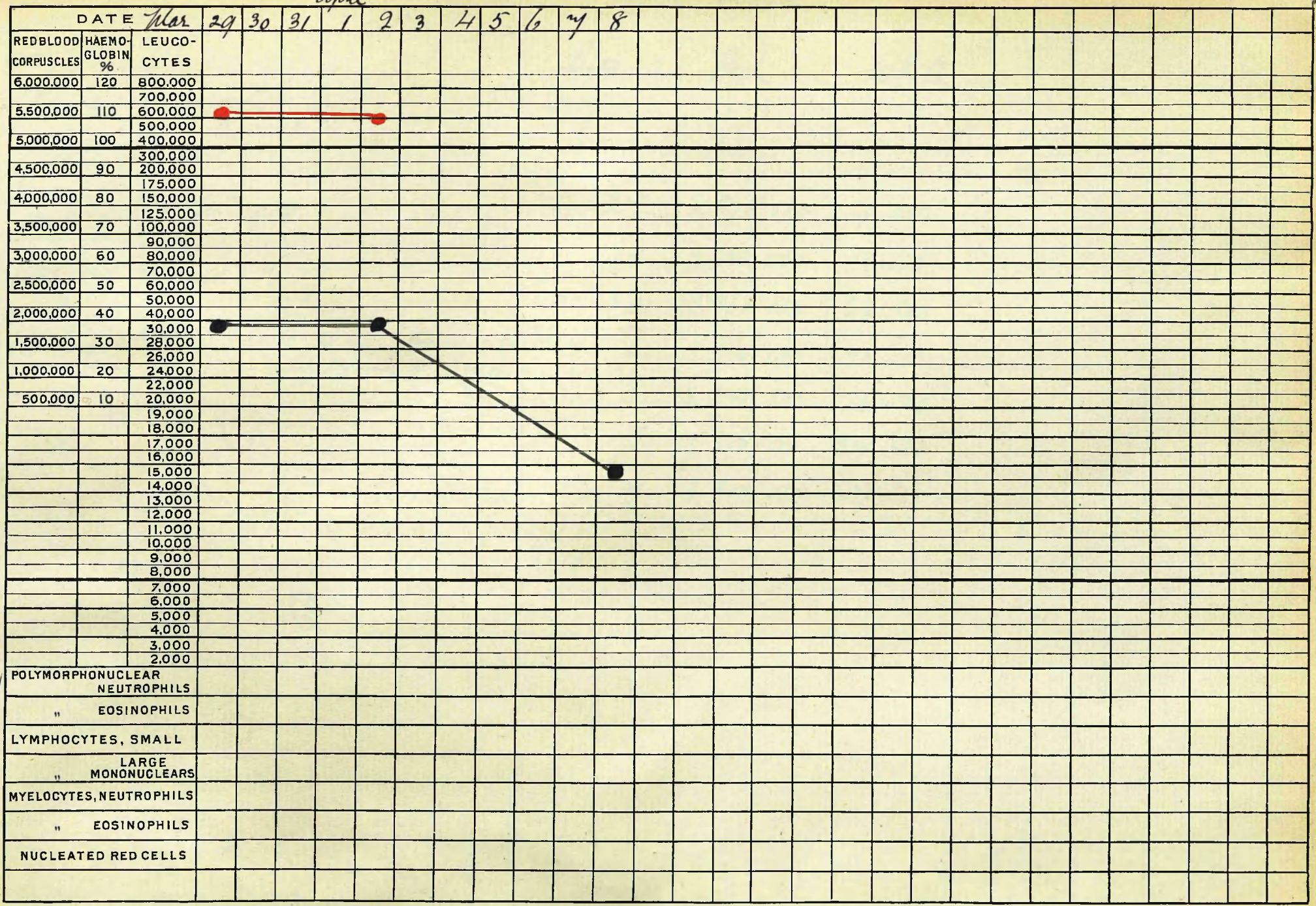
HAEMATOLOGICAL CHART.

Name
Helen Reid

Age
45 yrs.

Disease

Notes



RED CORPUSCLES — BLACK HAEMOGLOBIN — RED LEUCOCYTES — BLUE

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Designed by Edward Turton, M.D., B.Sc., M.R.C.P., Hull.

Blood count :

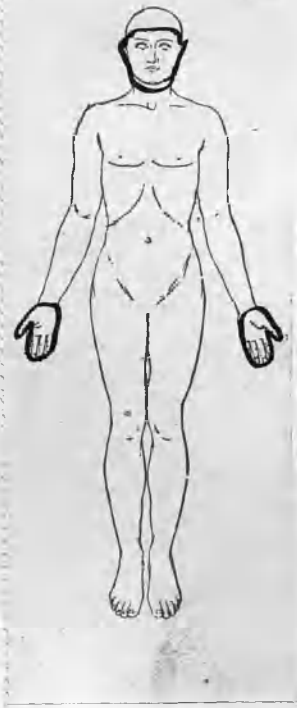
Name Mrs. McLaughlin

Age 28 yrs

Date of Accident Oct. 26th 1904

Cause of Scalds Steam

Extent & Degree of Scalding Face & hands to 2nd degree, with patches of 3rd degree



Result Dismissed Improved

Date	Red	White
1904		
Oct. 26	Scalded	
" 27	3,375,000	20,000
" 28	3,380,000	23,100
" 30	3,360,000	22,500
Nov. 1	3,360,000	25,000
" 3	3,350,000	25,000
" 5	3,300,000	27,500
" 7	3,300,000	27,000

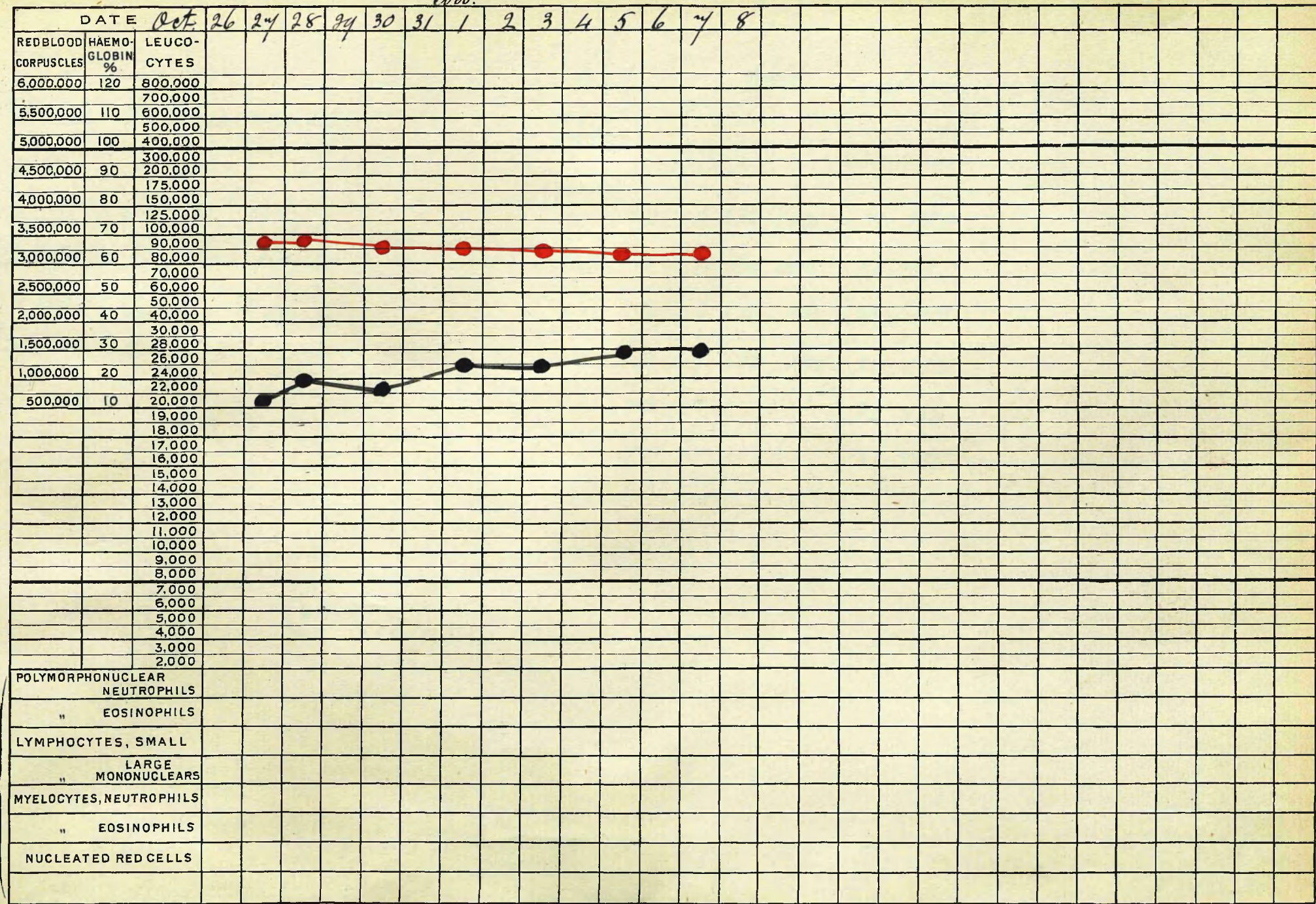
HAEMATOLOGICAL CHART.

Name
Mrs MacLaughlin

Age
28 yrs.

Disease

Notes



Differential
Count
per cent.

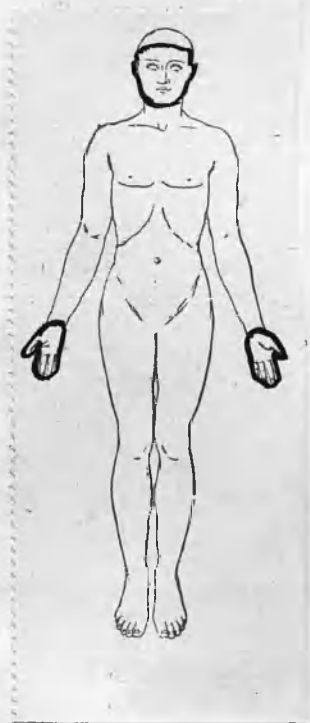
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood counts

Name Alexander Kennedy
Age 28 yrs
Date of Accident Oct. 30th 1907
Cause of Burns Naphtha Flame
Extent & Degree of Burning Face, 2nd degree
 Wounds, 3rd degree



Result Dismissed Improved

Date	Red	White
1907		
Oct. 30	Burned	
" 30	5,500,000	41,500
Nov. 1	6,000,000	13,750
" 3	6,000,000	20,600
" 5	5,500,000	25,000
" 7		28,750
" 19		33,700

HAEMATOLOGICAL CHART.

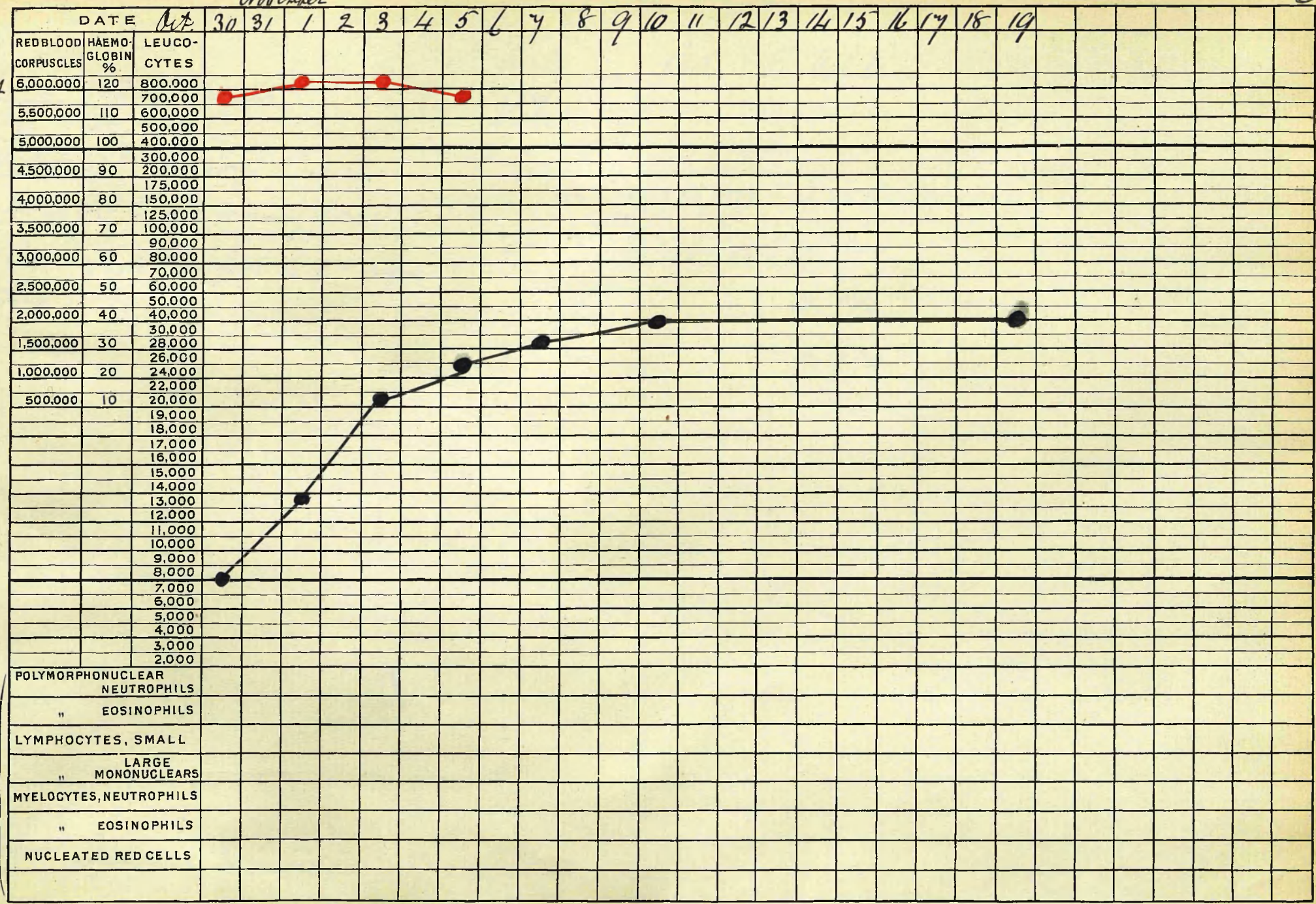
Name
Wenmider Kennedy

Age
28 yrs

Disease

Notes

November



Differential Count per cent.

- POLYMPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

RED CORPUSCLES - BLACK

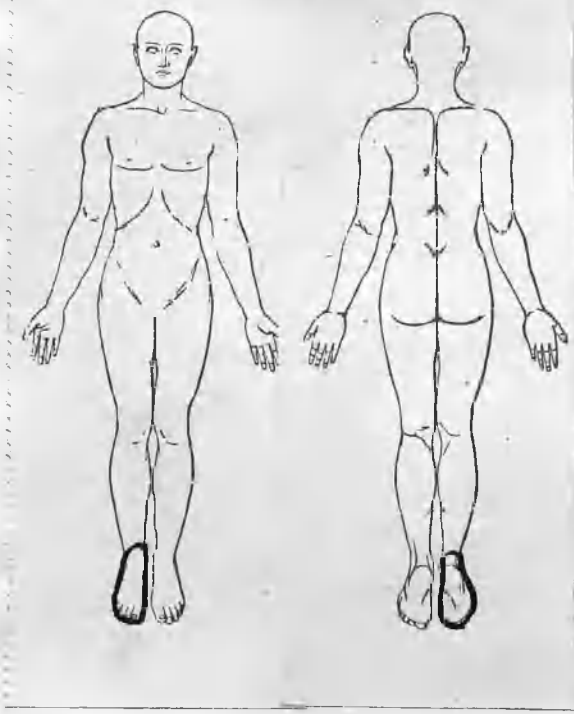
HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Date	Red	White
1904		
Nov. 15 Burned		
" 15	4,325,000	9,285
" 17	4,325,000	17,500
" 19		15,000
" 21		15,800

Name Patrick Tramor
Age 24 yrs
Date of Accident 15th Nov. 1904
Cause of Burns Hot liquid containing chemicals
Extent & Degree of Burning Whole of one foot to 2nd degree



Result Dismissed Improved

HAEMATOLOGICAL CHART.

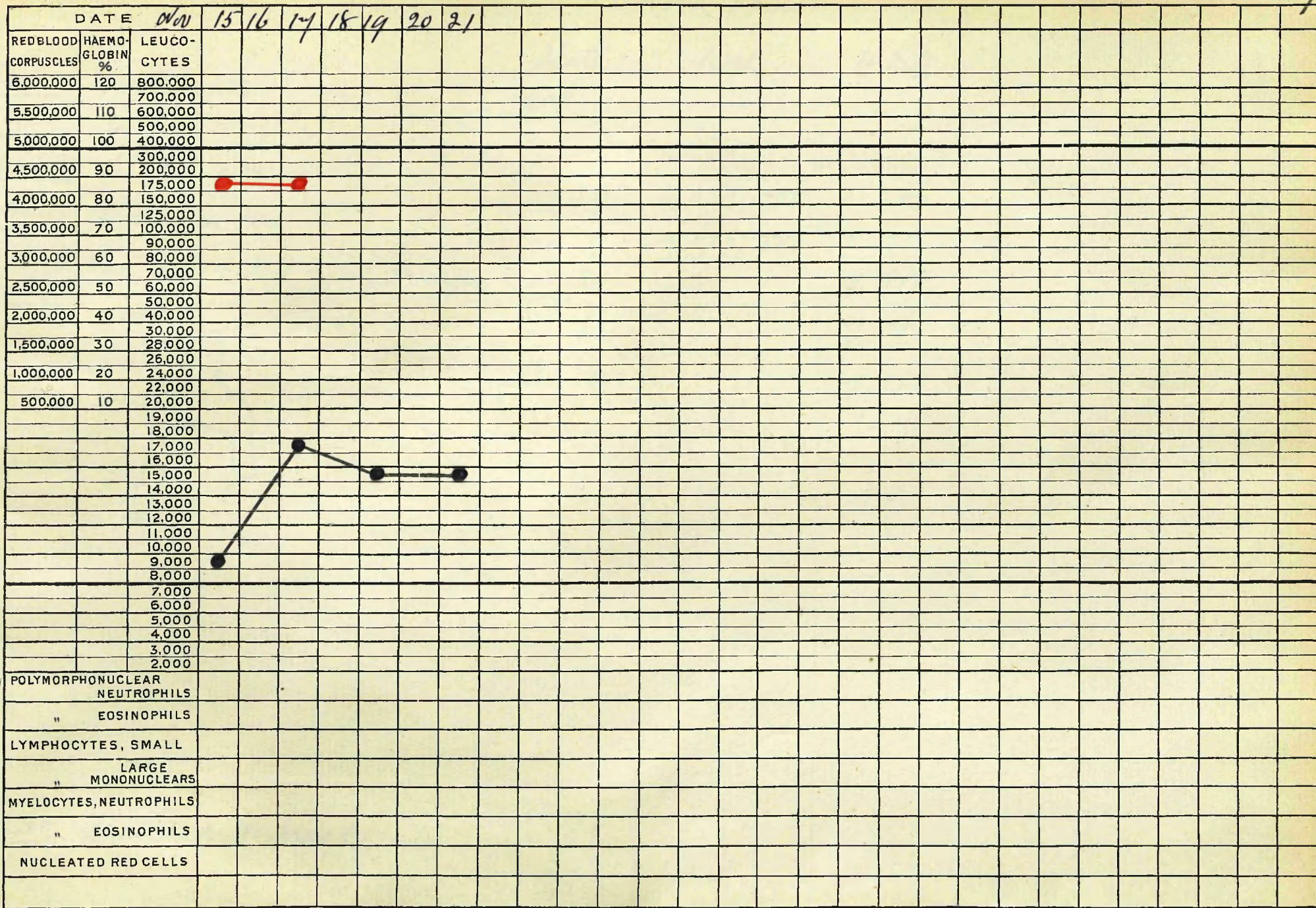
37

Name *Patrick Junior*

Age *27 yrs*

Disease

Notes



Differential Count per cent.

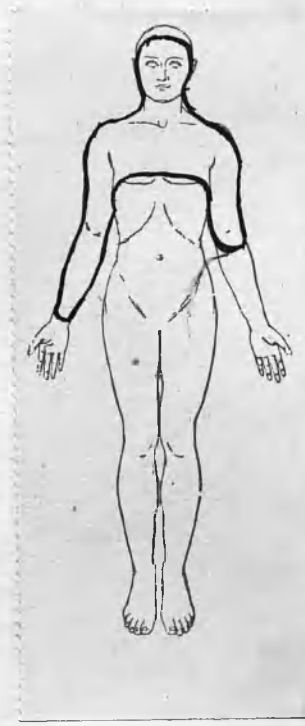
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Name Mrs. Burnside
Age 34 yrs
Date of Accident 16th Nov. 1907
Cause of Burns clothing on fire
Extent & Degree of Burning Face, arms & chest mostly 2nd degree



Result Dismissed Improved

Date	Red	White
1907		
Nov. 16 Burned		
" 17	4,625,000	10,800
" 19	4,625,000	8,450
" 21		7,500
" 24		7,000
Dec. 4		7,000

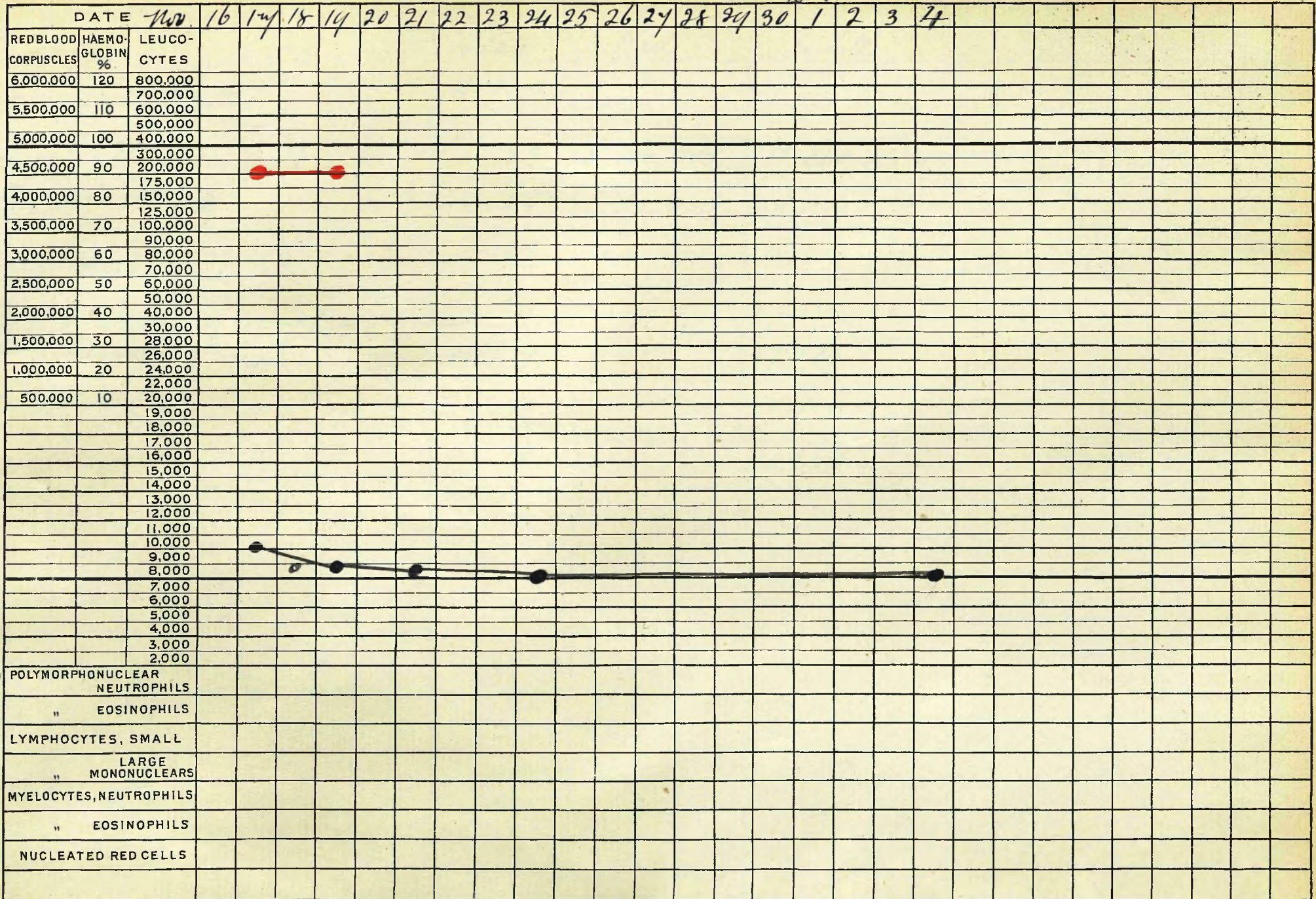
HAEMATOLOGICAL CHART

Name Mrs. Burnside

Age 34 yrs.

Disease _____

Notes _____



Differential Count per cent.

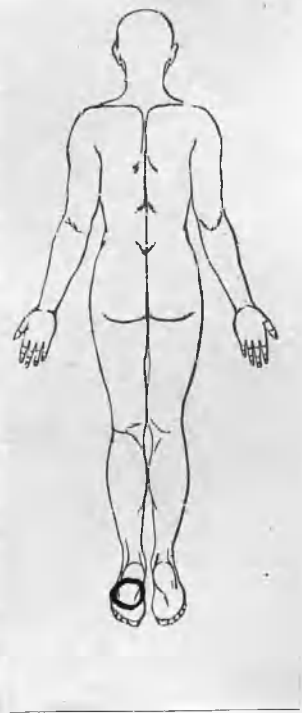
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Joseph Smith
Age 28 yrs.
Date of Accident. Nov. 23rd 1907
Cause of Burning Mallet brass.
Extent and Degree of Burns Circular Burn of sole of foot, 4" in diameter: 3rd degree



Date	Red	White
1907 Nov. 23	Burned	
" 23	5,000,000	12,300
" 25	5,100,000	15,000
" 27		15,800
" 29		17,000
Dec. 7		17,500
" 11		10,000
" 18		10,625

Result Dismissed Improved

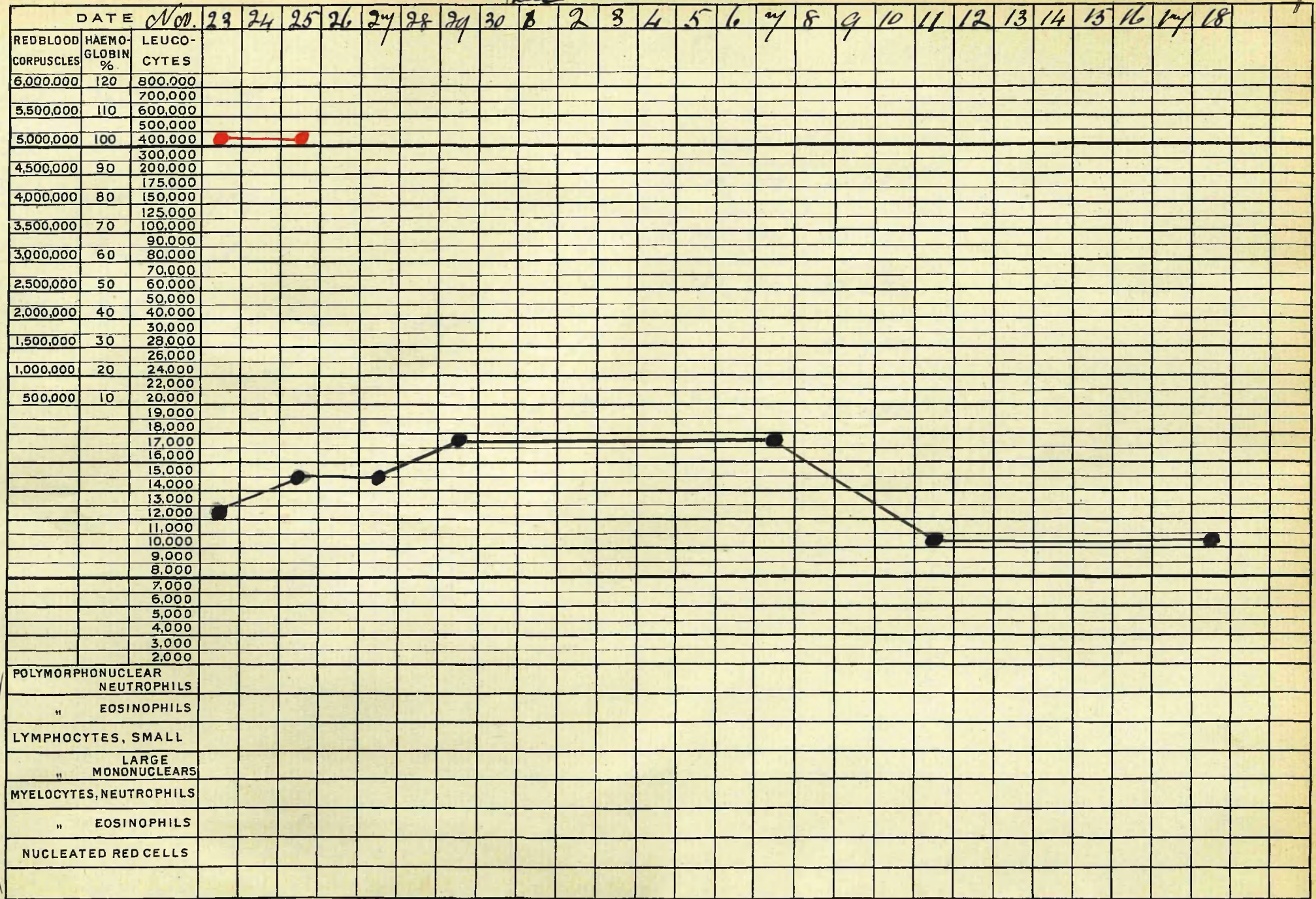
HAEMATOLOGICAL CHART.

Name Joseph Smith

Age 28 yrs

Disease

Notes



RED CORPUSCLES — BLACK HAEMOGLOBIN — RED LEUCOCYTES — BLUE

Blood count

Date	Red	White
1904		
Dec. 3 rd	Burned	
" 4	6,200,000	10,625
" 7	6,200,000	23,300
" 11	6,150,000	10,625
" 13		10,750
" 21		10,000

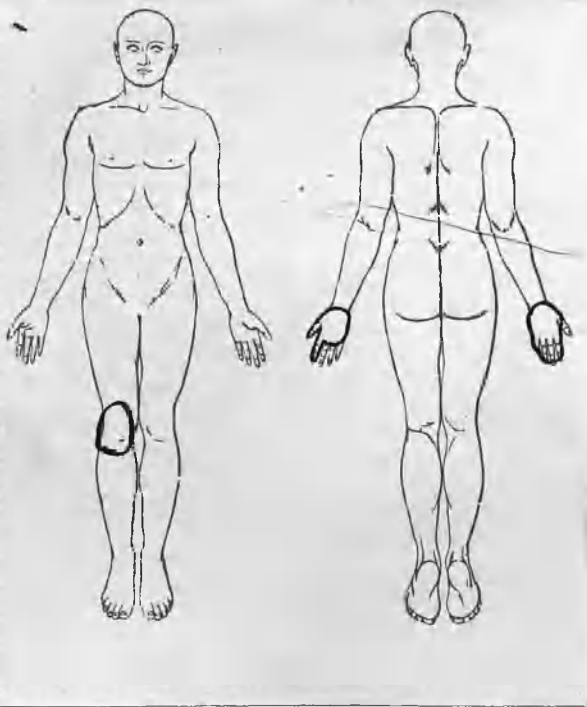
Name James Smith

Age 30 yrs.

Date of Accident Dec. 3rd 1904

Cause of Burns Naphtha flame

Extent & Degree of Burns. Both hands, & knee; 2nd degree



Result Dismissed Well.

HAEMATOLOGICAL CHART.

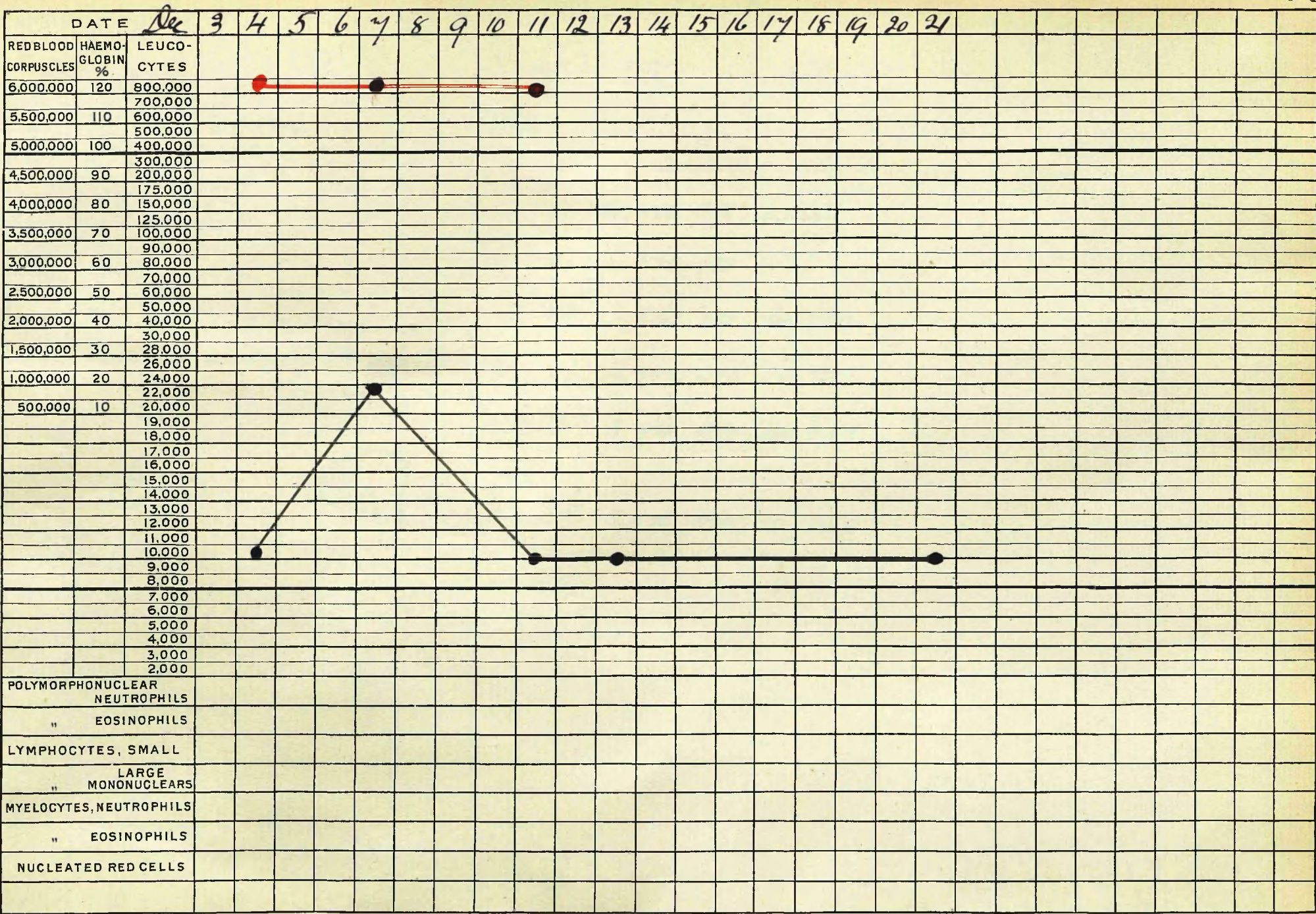
140

Name
James Smith

Age
30 yrs

Disease

Notes



Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Date	Red	White
1907		
Dec 10 th	Scalded	
" 11	4,800,000	25,000
" 13	5,950,000	11,250
" 18	5,550,000	16,250
" 21	4,300,000	18,125
" 27	3,800,000	20,625
1908		
Jan. 3	3,800,000	15,000
" 5		8,750

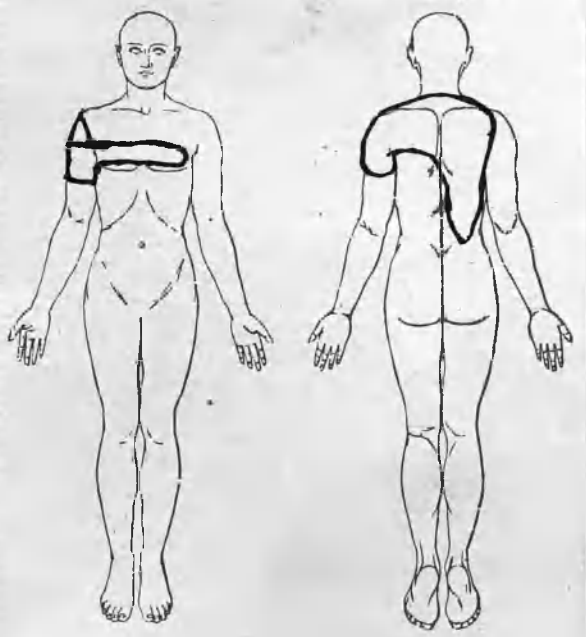
Name Kate M^o Govern

Age 21 yrs

Date of Accident 10th Dec 1907

Cause of Scalds Boiling water

Extent & Degree of Scalds Back & chest as shown in diagram - chiefly 3rd degree



Result Recovered

HAEMATOLOGICAL CHART.

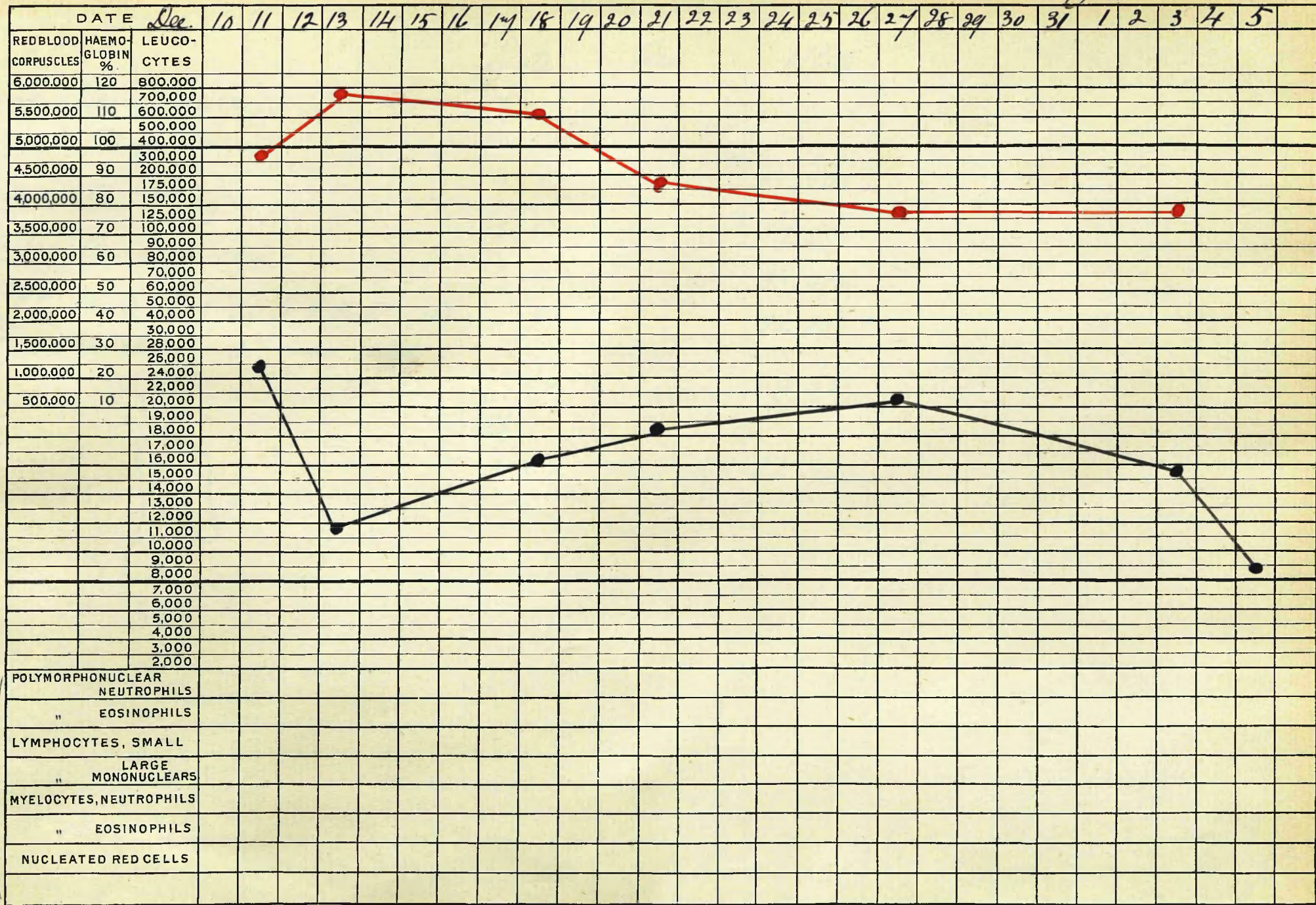
Jun *41*

Name *Kate Mc Govern*

Age *21 yrs.*

Disease

Notes



Differential Count per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

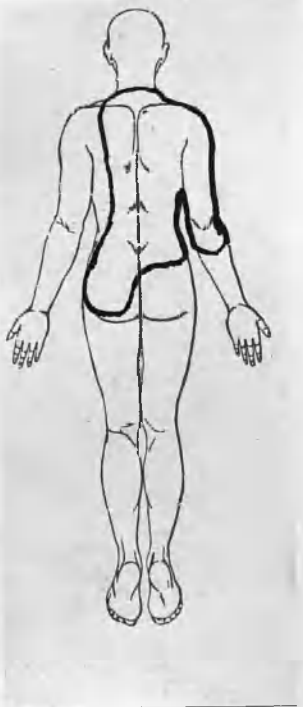
LEUCOCYTES - BLUE

(Copyright) London, H. K. Lewis.

Designed by Edward Turton, M.D., B.Sc., M.R.C.P., Hull.

Blood count

Name George Darroch
Age 5 yrs
Date of Accident Dec 6th 1907
Cause of Scalds Boiling Water
Extent & Degree of Scalds Back, left arm, & buttocks (right) as shown, 3rd degree chiefly.



Date	Red	White
1907		
Dec 6 th	Scalded	
" 11		51,500
" 13		57,500
" 16		35,000
" 21		24,000
" 26		49,500
1908		
Jan. 2		63,750

Result Gradual recovery

HAEMATOLOGICAL CHART.

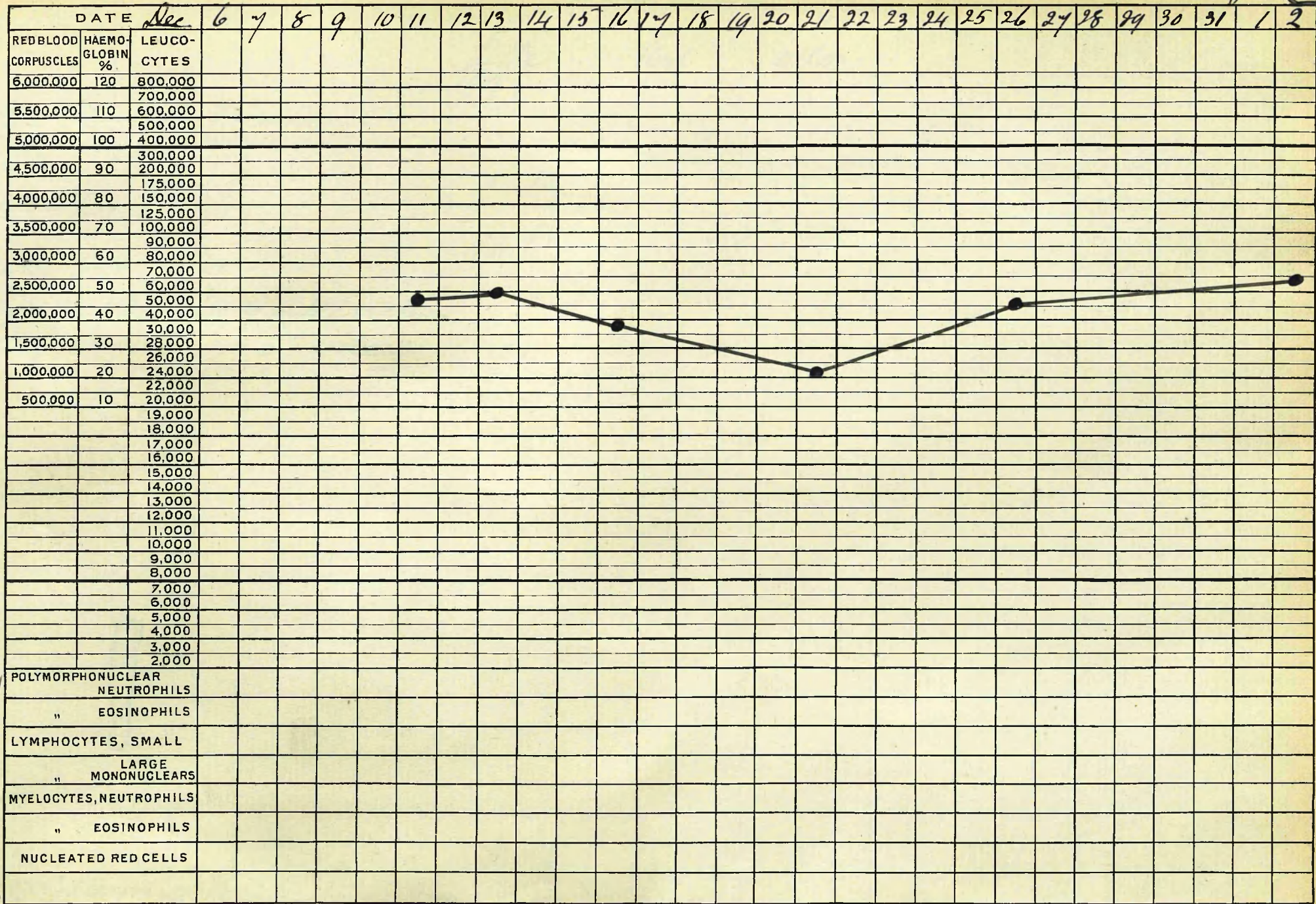
Jan (42)

Name
George Danoch

Age
5 1/2 yrs.

Disease

Notes



Differential Count per cent.

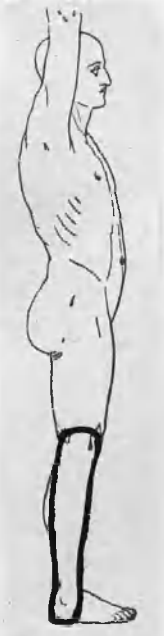
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

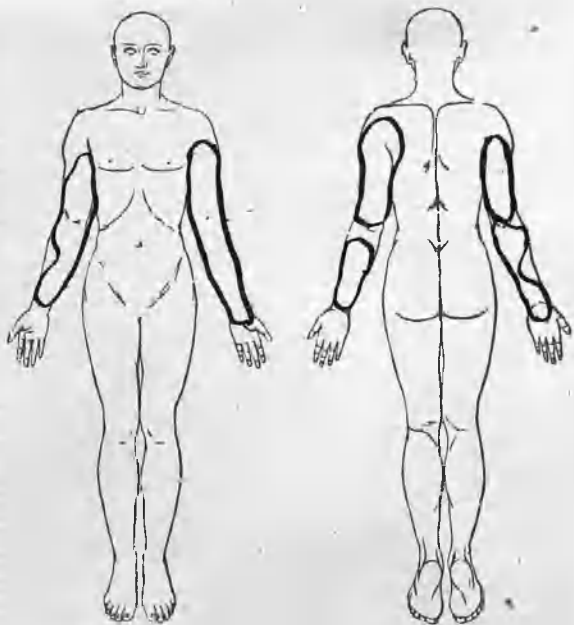
Name Michael Crossan
Age 12 yrs
Date of Accident Dec 6th 1907
Cause of Scalds Hot water
Extent & Degree of Scalding Leg from knee to ankle, as shown
 - 3rd degree -



Date	Red	White
1907		
Dec 6	Scalded	
" 12		13,550
" 18		13,000

Result Recovery

Name Mrs. Gaffney
Age 42 yrs.
Date of Accident April 9th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning Both Arms & forearms: 2nd & 3rd degrees



Date	Red	White
1908		
April 9 Burned		
" 12	8,500,000	11,875

Resnet Recovery

Name John Bonlin
Age 25 yrs.
Date of Accident Dec 14th 1907
Cause of Burns clothes on fire
Extent & Degree of Burning Forearms, hands & fingers: 1st
 2nd & 3rd degrees : patch on neck, 1st
 degree



Result Recovered

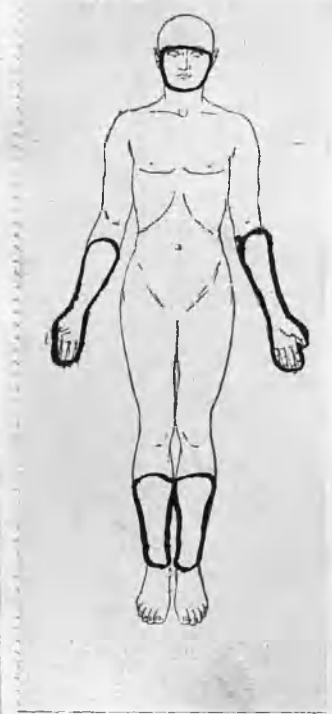
Blood Count

Date	Red	White
1904		
Dec 14 Burned		
" 16	5,350,000	33,300
" 18	5,200,000	11,250
" 21	5,500,000	11,250
" 27	5,350,000	43,750
1908		
Jan 2		16,850
" 7		10,000

Blood count

Name Martin Gilbert
Age 16 yrs.
Date of Accident Dec 18th 1907
Cause of Burns Hot ashes
Extent & Degree of Burning Face, 1st degree; Leg 1st degree;
 Hands, 1st & 2nd degrees; forearms
 1st degree

Date	Red	White
1907 Dec 18 Burned		
" 18	6,800,000	7,500
" 21	6,200,000	16,875
" 26	5,100,000	13,450



Result Recovered

HAEMATOLOGICAL CHART.

46

Name

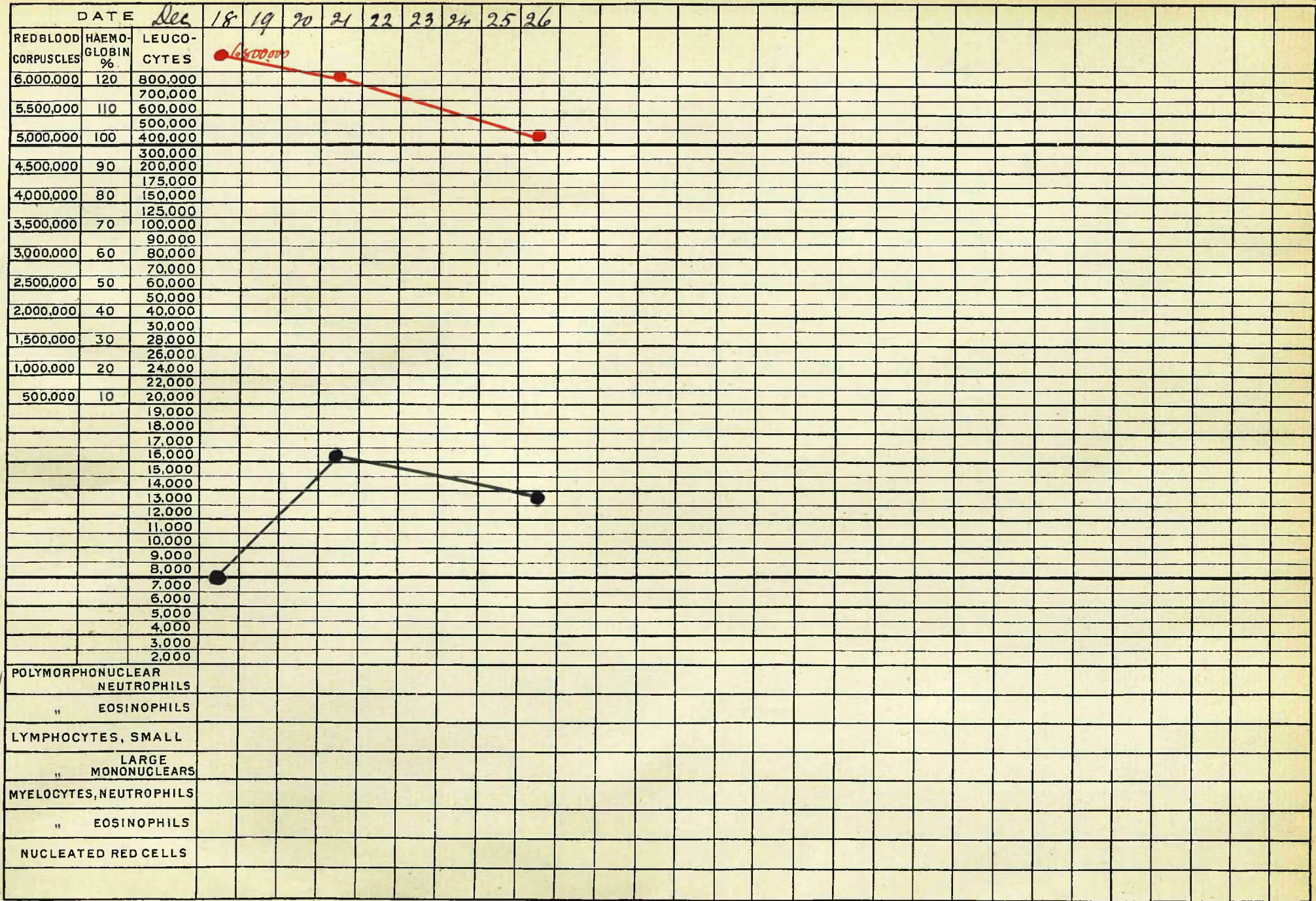
Martin Gilbert

Age

16 yrs.

Disease

Notes



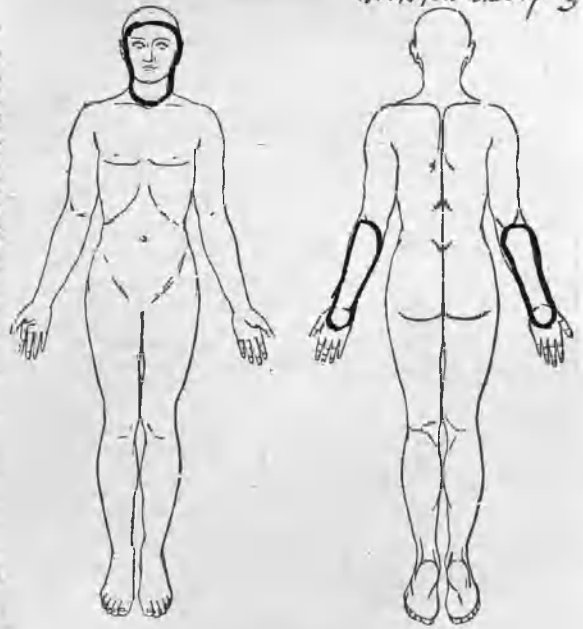
Differential Count per cent.

- POLYMORPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

Blood count

Name Patrick McIntyre
Age 2 yrs
Date of Accident Dec 18th 1904
Cause of Burns Explosion of fire-damp
Extent & Degree of Burning Back & front of neck & extensor surfaces of forearms to 2nd degree; with patches of 3rd degree

Date	Red	White
1904 Dec 18 Burned		
" 18	4,150,000	13,750
" 21	5,500,000	12,500
" 24	5,500,000	18,750
1908 Jan 3	5,500,000	18,125



Result Recovered

HAEMATOLOGICAL CHART.

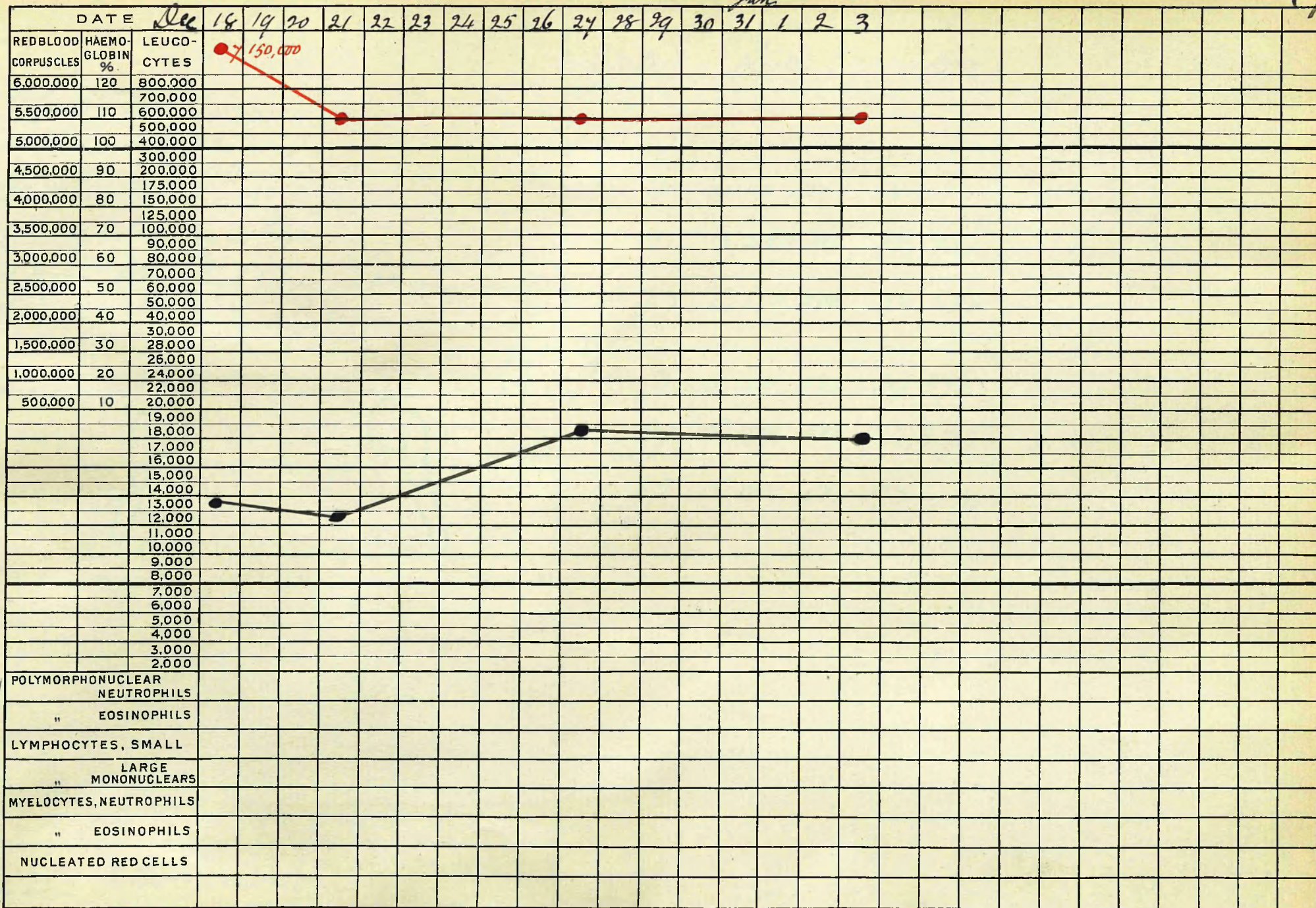
47

Name
*Patrick
McIntyre*

Age
27 yrs.

Disease

Notes

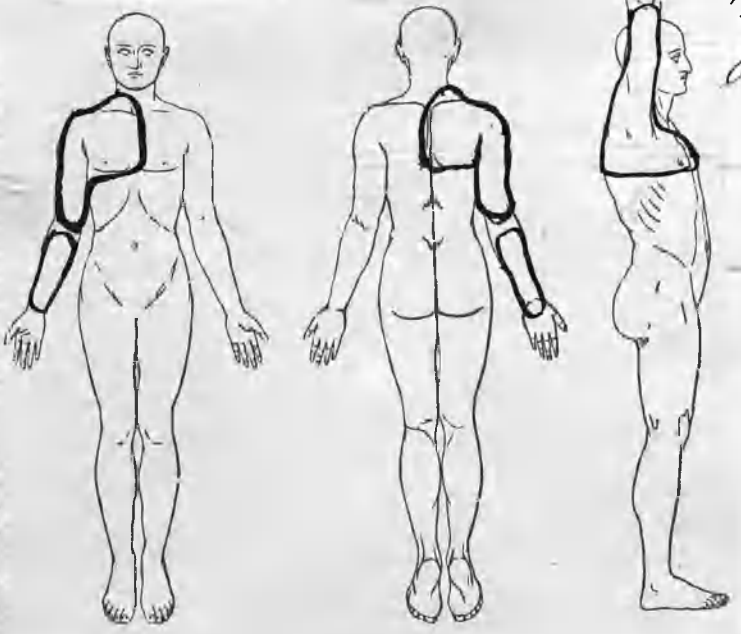


Differential
Count
per cent.

- POLYMORPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

Blood-count

Name Mrs. Laird.
Age 43 yrs.
Date of Accident Dec 15th 1907
Cause of Burns clothing on fire
Extent & Degree of Burning chest, back & arm as shown, mostly 3rd, partly 4th degree



Date	Red	White
1907 Dec 15 Burned		
" 18	6,000,000	18,125
" 21	5,450,000	18,750
" 27	5,100,000	22,480
1908 Jan 3	5,100,000	29,375
" 7	5,000,000	14,375
" 12	5,000,000	23,750

Result Slow recovery

HAEMATOLOGICAL CHART.

Jan

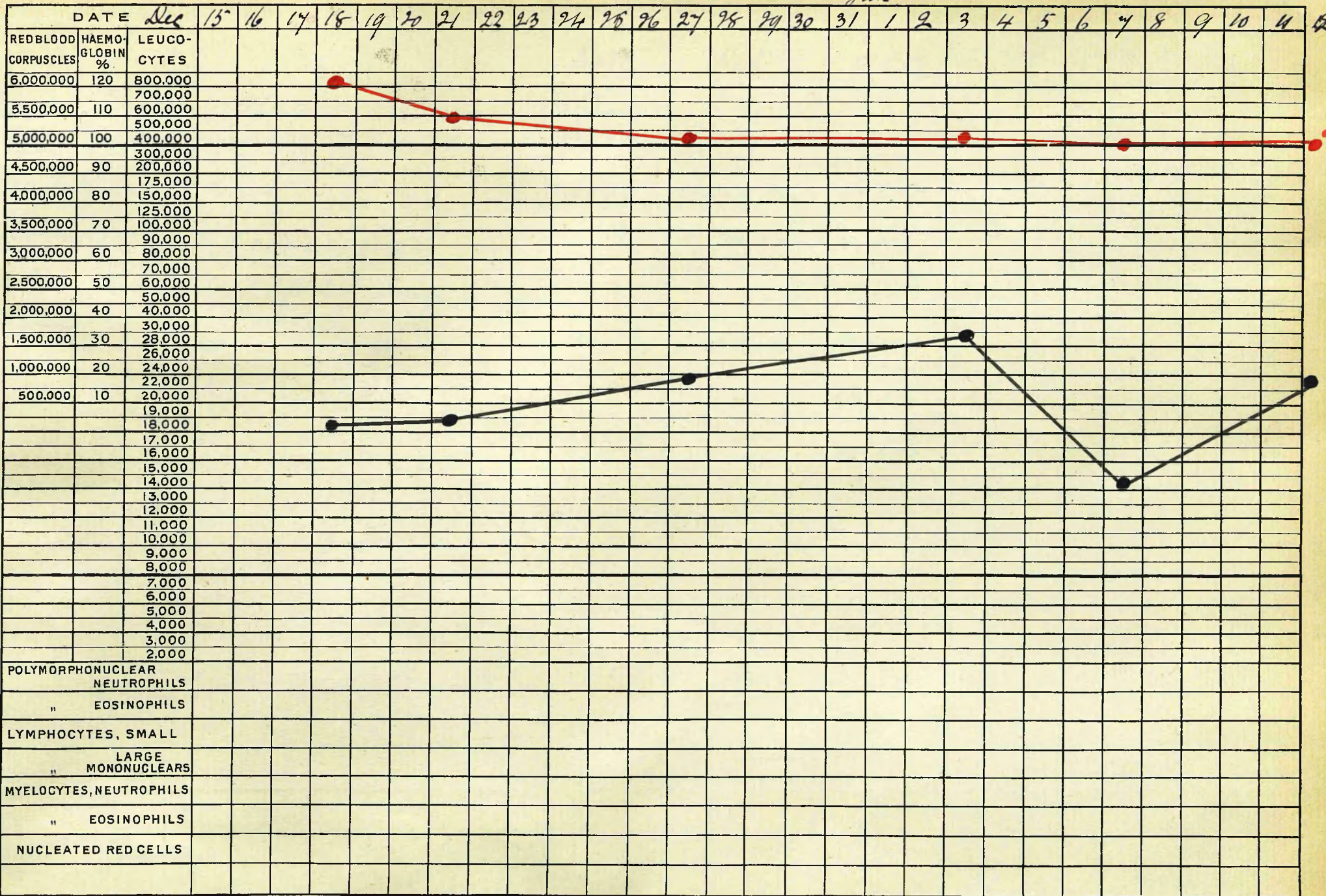
48

Name
Mrs. Laird

Age
43 yrs.

Disease

Notes



Differential
Count
per cent.

- POLYMPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

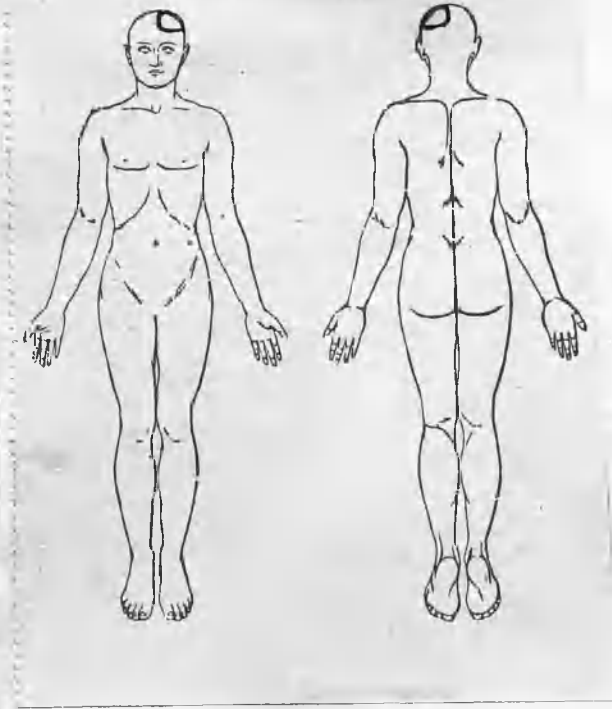
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood-count

Name Beatrice Alberto
Age 23 yrs.
Date of Accident Dec. 16th 1912
Cause of Burns Celluloid comb & Hair on fire
Extent & Degree of Burns. Three-quarters of left half of scalp, 4th degree



Date	Red	White
1907		
Dec 16 Burned		
" 18	4,950,000	10,625
" 21	5,000,000	10,000
" 27		12,500
Jan 3	5,000,000	13,750
" 7		12,500
" 12		12,500

Result Recovery

HAEMATOLOGICAL CHART. *Jan.*

149

Name

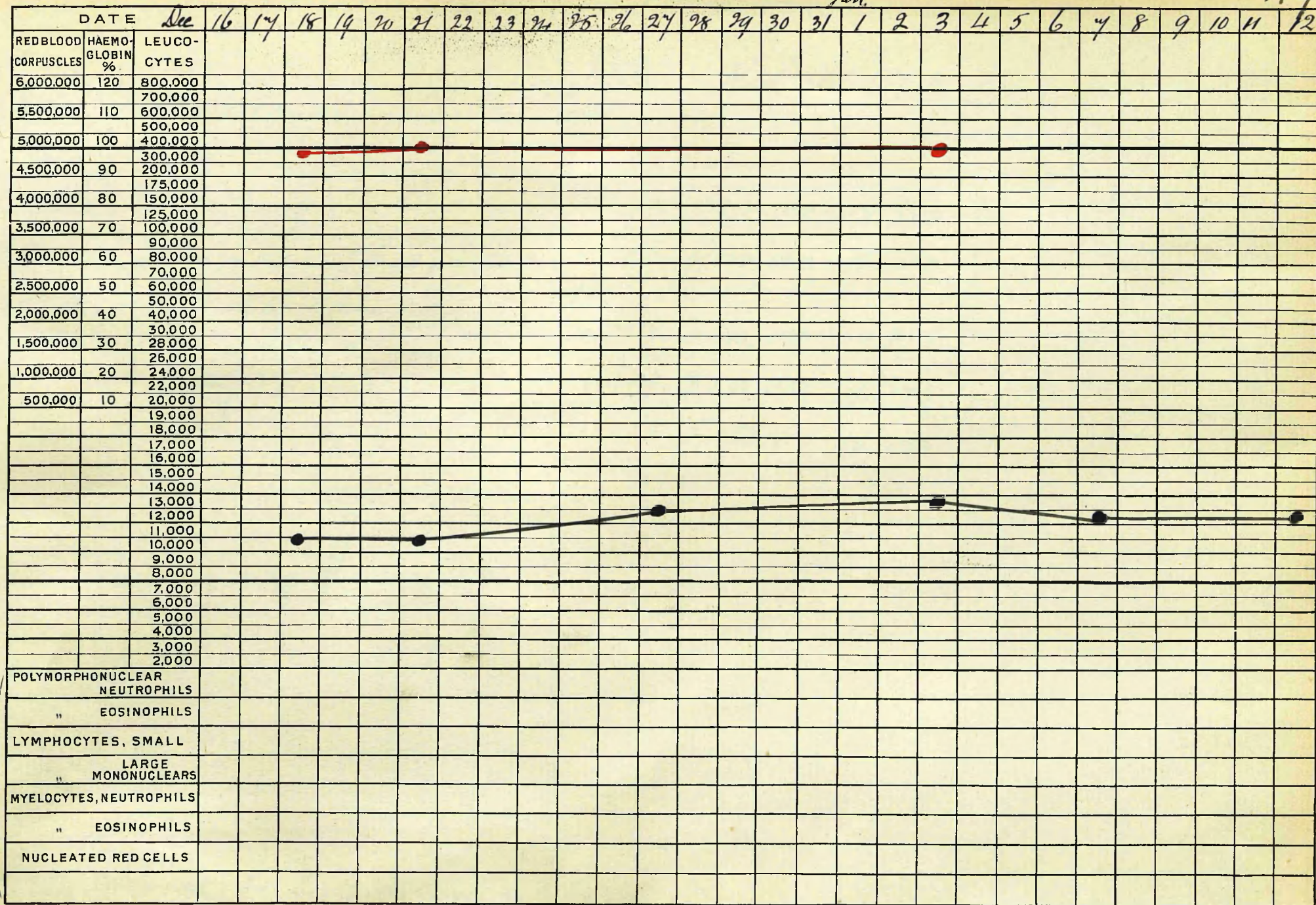
Beatrice Alberto

Age

23 yrs.

Disease

Notes



Differential Count per cent.

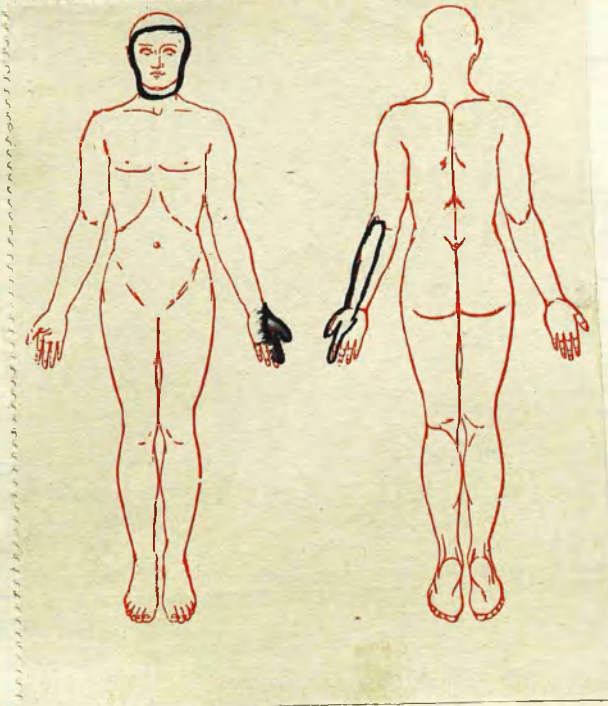
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Richard Sands
Age 32 yrs.
Date of Accident Dec. 23rd 1907
Cause of Burns Explosion in mine, of blast powder
Extent & Degree of Burning Face, 1st degree; left eye destroyed; left arm as shown, 3rd degree



Date	Red	White
1904		
Dec. 23 Burned		
" 23	3,350,000	17,500
" 26	5,000,000	12,500
1908		
Jan 3	5,600,000	14,375
" 27	3,400,000	9,375
" 12	5,050,000	10,000

Result Recovered, but sight destroyed in both eyes

HAEMATOLOGICAL CHART.

Name

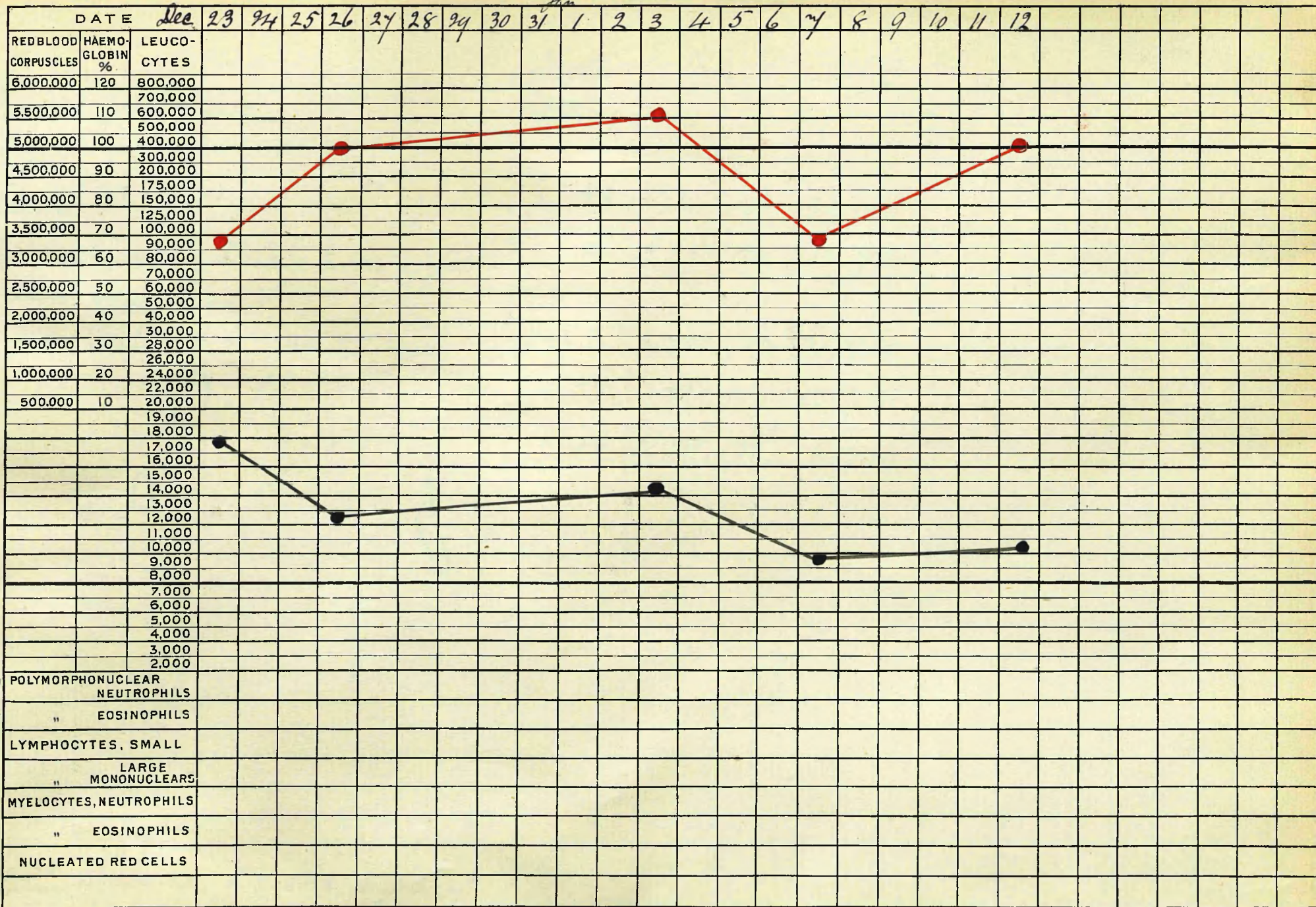
Richard Sands

Age

32 yrs.

Disease

Notes

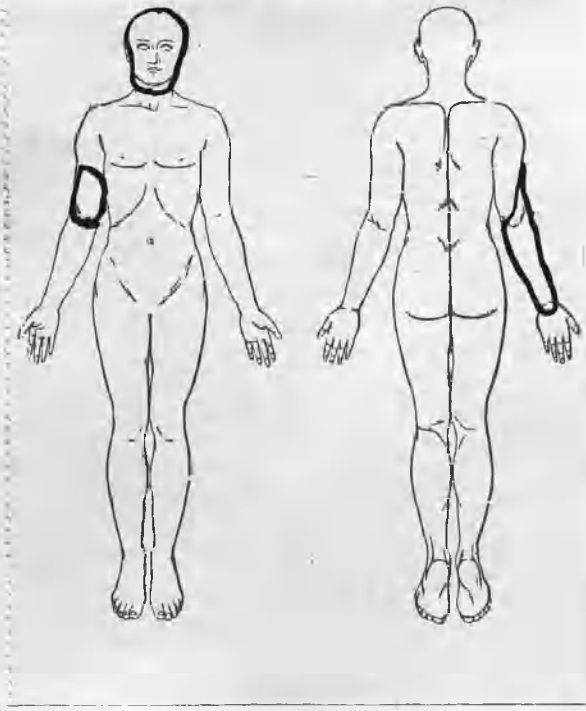


Differential Count per cent.

RED CORPUSCLES — BLACK HAEMOGLOBIN — RED LEUCOCYTES — BLUE

Blood count

Name John Skillin
Age 17 yrs.
Date of Accident Dec. 23rd 1904
Cause of Burns Explosion of blasting powder in pit
Extent of Burns Face 1st degree
 Right Arm as shown 3rd degree



Date	Red	White
1904		
Dec 23 Burned		
" 23	5,400,000	30,000
" 26	5,050,000	13,750
1908		
Jan 3	3,700,000	21,750
" 7	4,750,000	13,750
" 12	5,000,000	8,750

Result Recovered, but lost sight of both eyes.

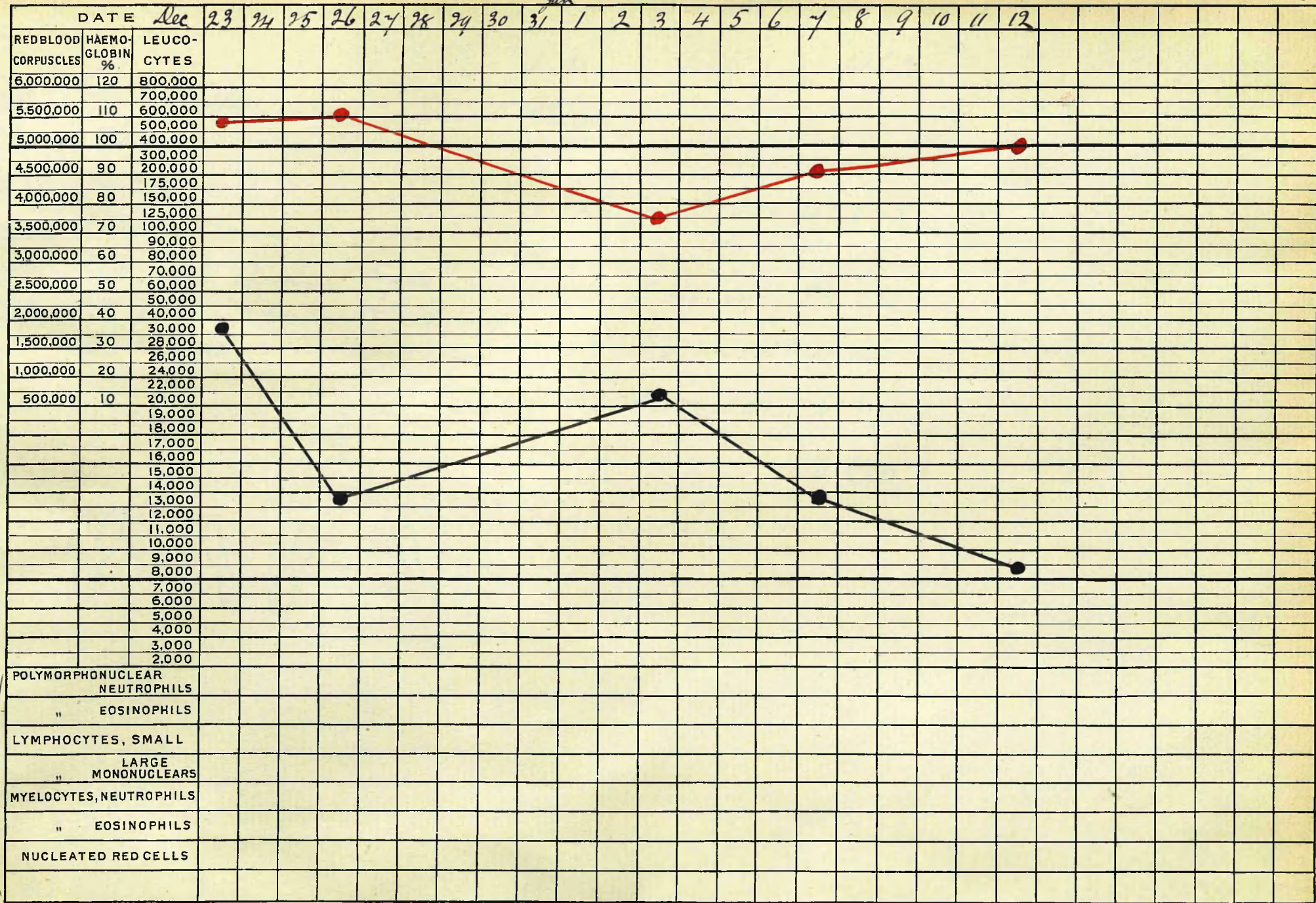
HAEMATOLOGICAL CHART.

Name *John Skillin*

Age *1 m 4/15*

Disease

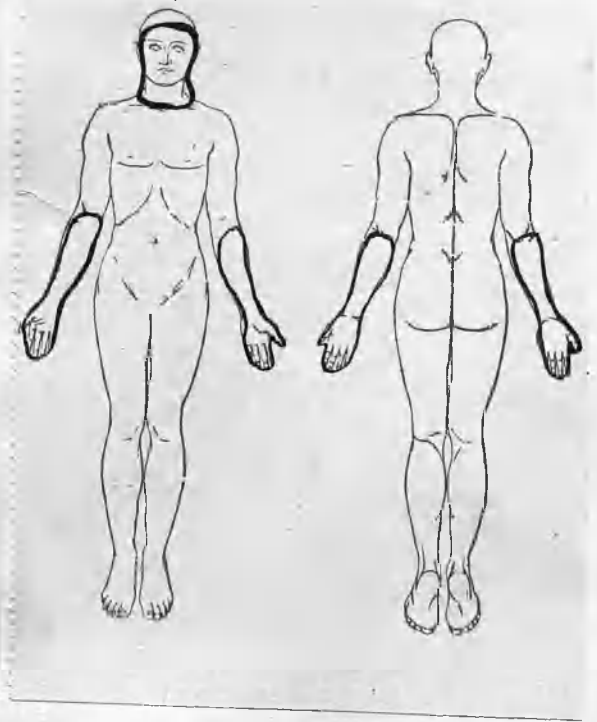
Notes



Differential Count per cent.

RED CORPUSCLES - BLACK HAEMOGLOBIN - RED LEUCOCYTES - BLUE

Name David Sinclair
Age 36 yrs
Date of Accident Dec 25th 1907
Cause of Burns Pitch explosion
Extent & Degree of Burning Face, neck, chiefly 1st degree:
 Both forearms & hands 2nd with patches
 of 3rd degree.



Result Recovery

Blood count		
Date	Red	White
1907		
Dec 25 th	Burned	
" 26	6,350,000	41,875
1908		
Jan 3	5,300,000	44,375
" 7	5,250,000	10,000
" 12	5,000,000	14,375
" 19		10,000

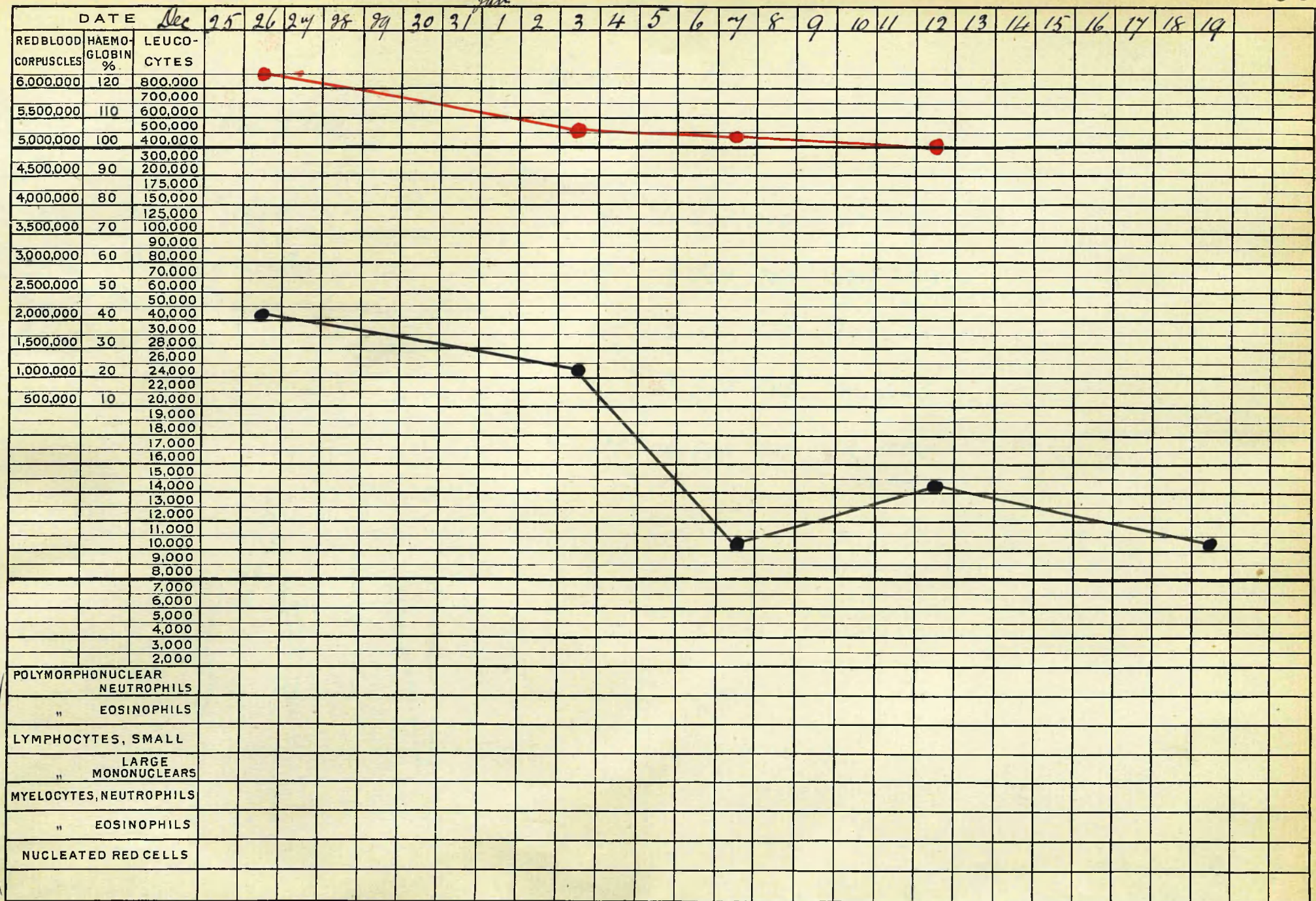
HAEMATOLOGICAL CHART.

Name
David Sinclair

Age
36 yrs.

Disease

Notes



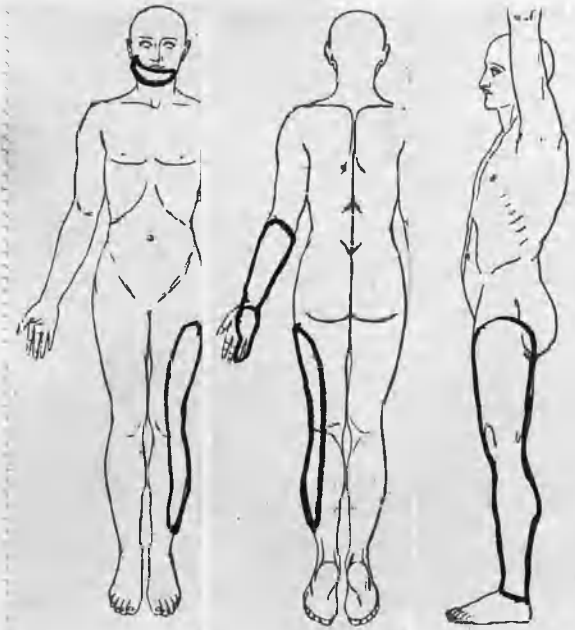
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Name Robert Campbell
Age 47 yrs
Date of Accident Jan. 11th 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Face, left hand & forearm, abdomen as shown, all 3rd degree



Date	Red	White
1908 Jan 11 Scalded		
" 17	6,250,000	17,800
" 9	3,500,000	19,375
" 11	3,450,000	10,625
" 19	3,500,000	20,625
" 27	4,000,000	12,000

Result Recovery

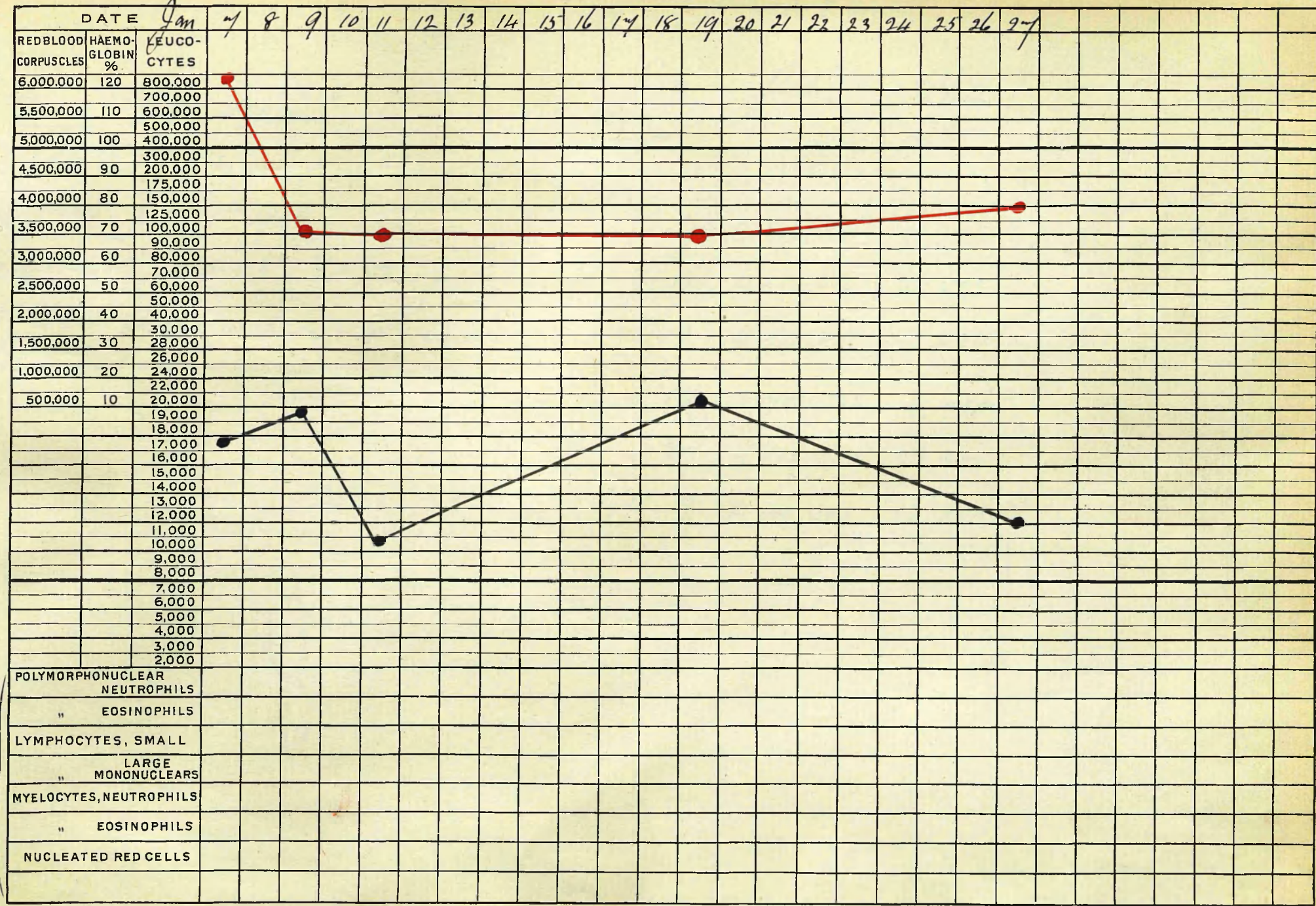
HAEMATOLOGICAL CHART.

Name
Robert Campbell

Age
47 yrs.

Disease

Notes



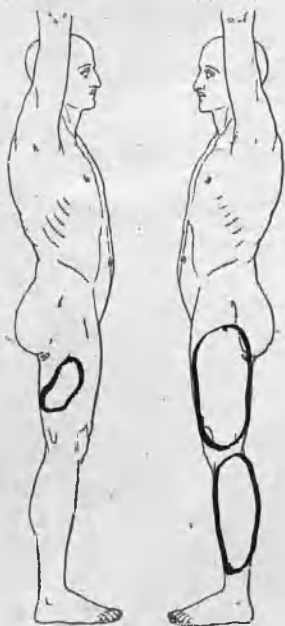
Differential
Count
per cent.

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Name John Martin.
Age 53 yrs.
Date of Accident Jan. 24th 1908
Cause of Burns Lying drunk on hot steam pipes.
Extent & Degree of Burning Thighs as shown - 4th degree -



Result ~~Did~~ Recovered slowly

Blood count

Date	Red	White
<u>1908</u>		
Jan 24 Burned		
" 9	3,800,000	19,375
" 11	4,000,000	21,875
" 12	4,500,000	15,000
" 18	3,700,000	8,750
" 27	4,000,000	22,500
Feb 2	4,000,000	16,250

HAEMATOLOGICAL CHART.

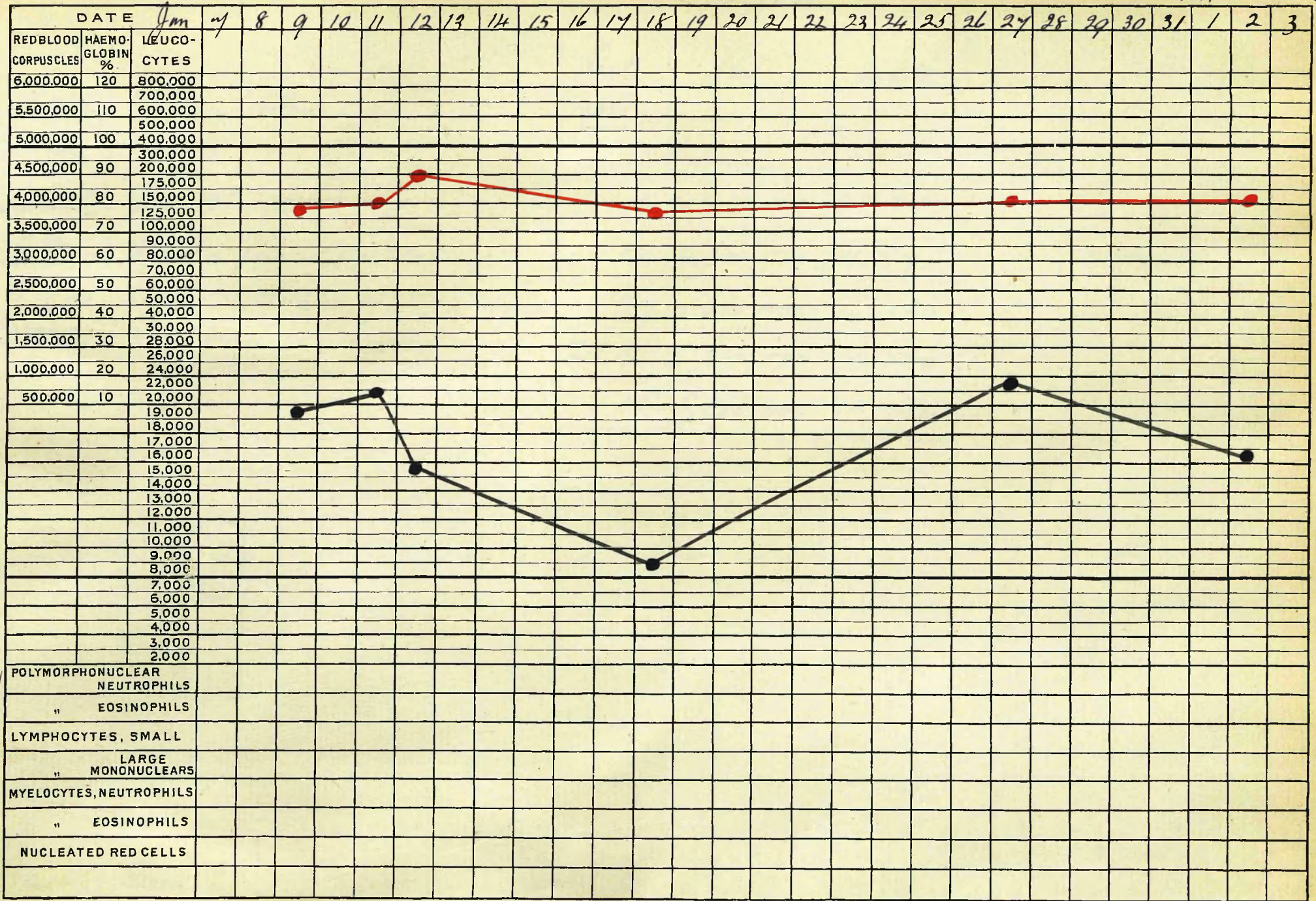
Feb. 54

Name *John Martin*

Age *53 yrs.*

Disease

Notes



Differential Count per cent.

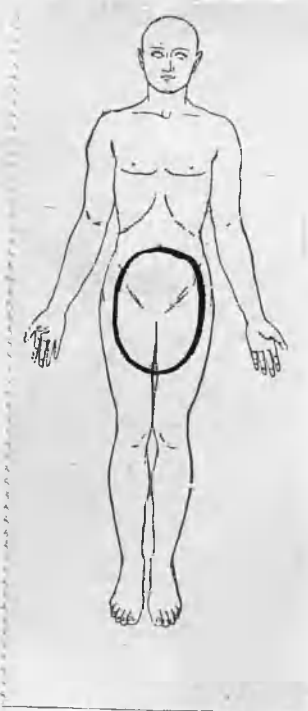
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood-count

Name William Allen
Age 30 yrs
Date of Accident Jan. 12th 1908
Cause of Burns Apron on fire whilst sleeping
Extent & Degree of Burning Abdomen & thighs, of 3rd & 4th degrees as shown.



Date	Red	White
1908		
Jan 12 Burned		
" 12	6,750,000	28,750
" 18	4,300,000	11,875
" 27	5,600,000	16,250
Feb. 2	5,300,000	18,500
" 7	5,300,000	13,000

Result Recovery

HAEMATOLOGICAL CHART.

Feb.

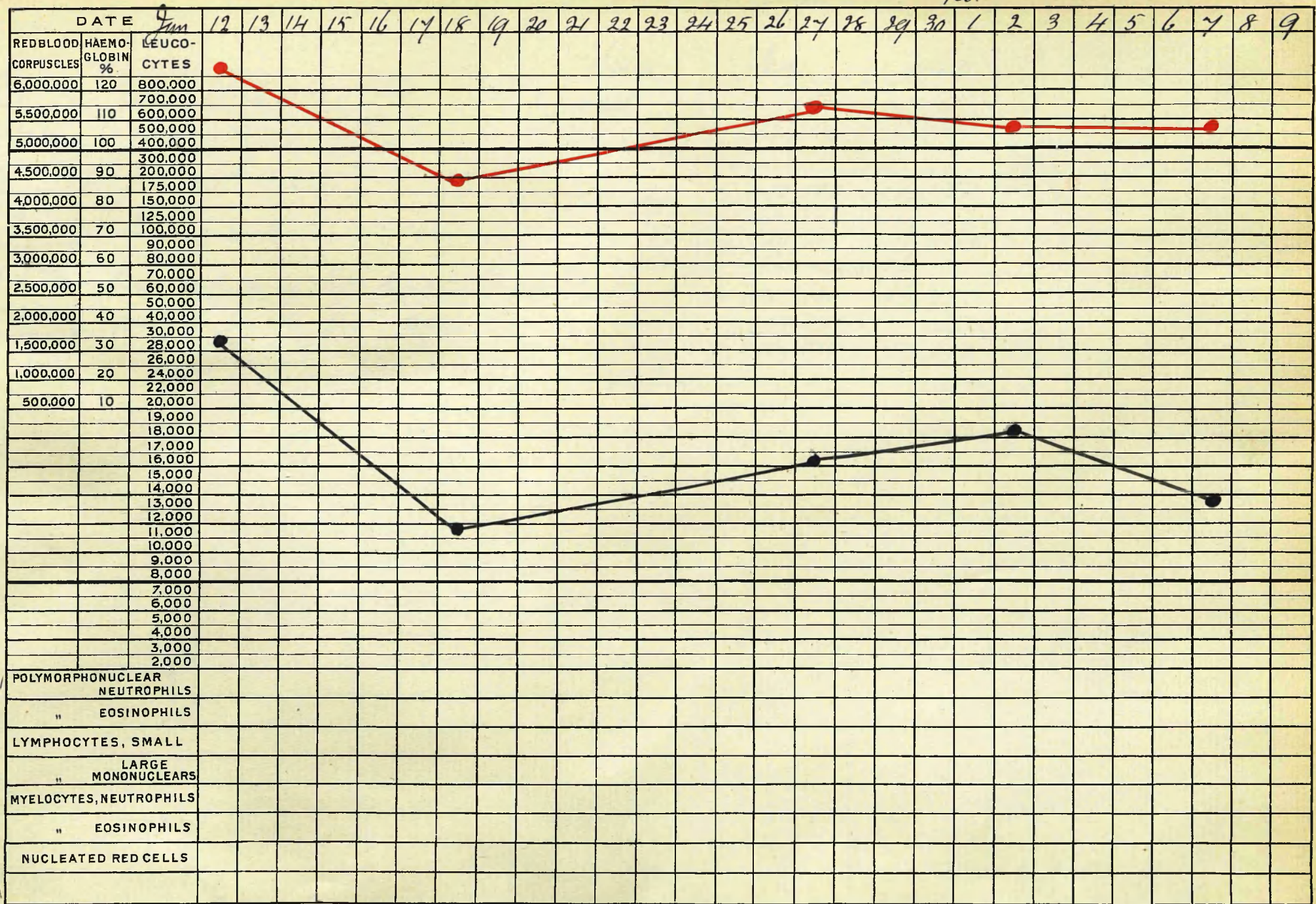
55

Name
William Allan

Age
30 yrs.

Disease

Notes



Differential
Count
per cent.

- POLY MORPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

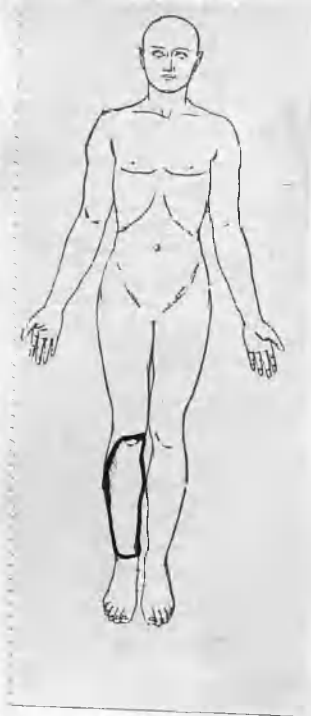
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name James Aithen
Age 11 yrs.
Date of Accident Jan. 26th 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Inner surface of left leg - 2nd degree front of leg to first degree



Date	Red	White
1908		
Jan 26	Burned	
" 26	5,400,000	18,750
" 27	7,250,000	6,875
Feb 3	6,150,000	13,750
" 7	5,600,000	17,500

Result Recovery

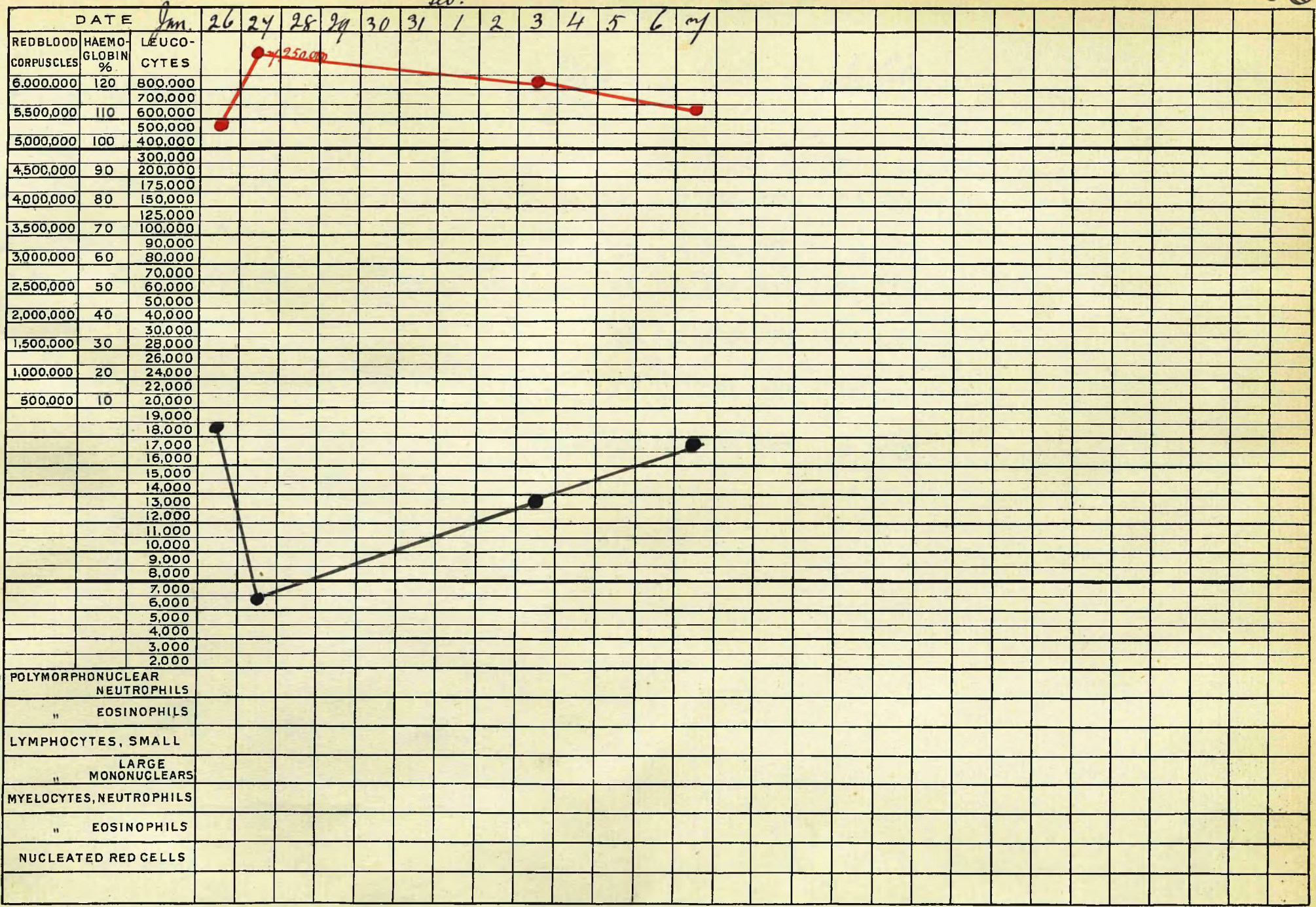
HAEMATOLOGICAL CHART.

Name
James Aitken

Age
11 yrs.

Disease

Notes

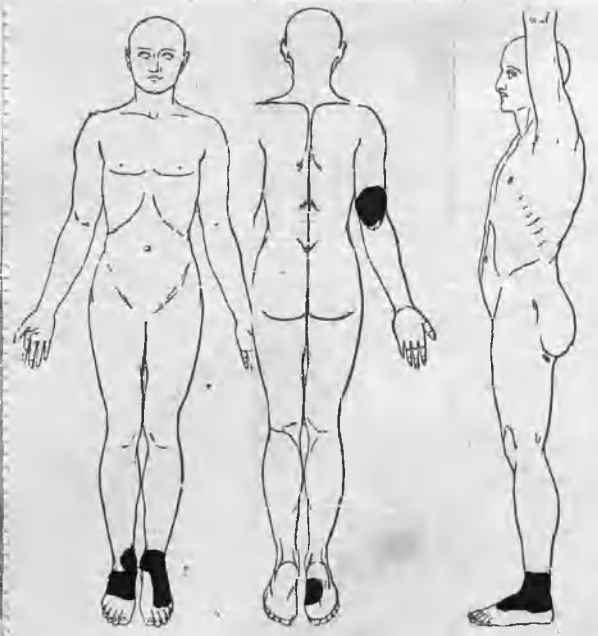


RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Name Charles Dixon
Age 24 yrs.
Date of Accident Jan. 28th 1908
Cause of Burns Molten Iron
Extent & Degree of Burning Legs & left arm as shown; 3rd & 4th degrees.



Blood Count		
Date	Red	White
1908		
Jan 28	Burned	
" 28	6,800,000	20,000
Feb. 2	5,500,000	26,250
" 7	5,300,000	13,750
" 14	5,250,000	12,500
" 21	5,000,000	10,000
March 12	4,700,000	8,750

Result Recovery - gradual -

HAEMATOLOGICAL CHART.

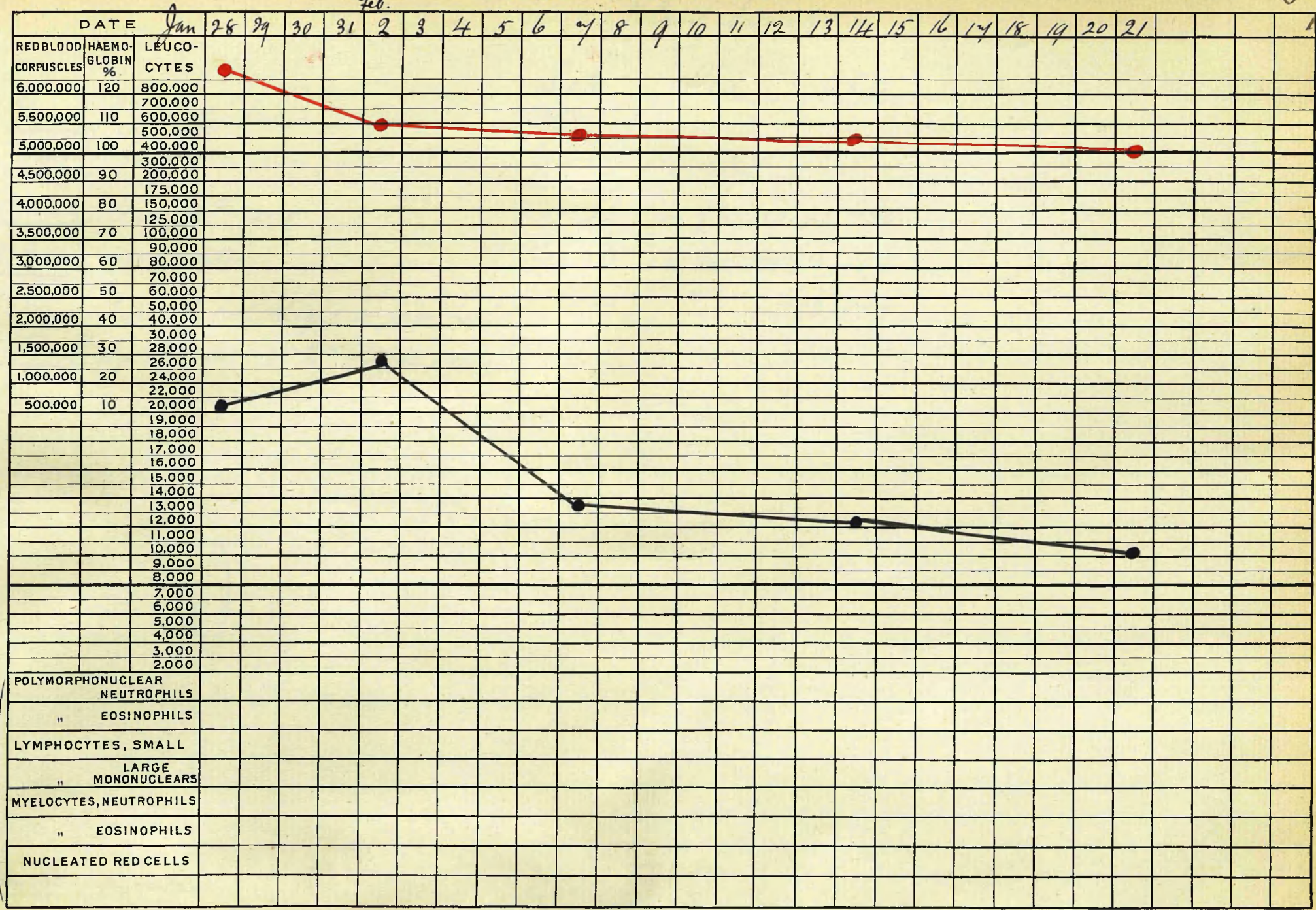
57

Name
Charles Dixon

Age
24 yrs

Disease

Notes



Differential
Count
per cent.

RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

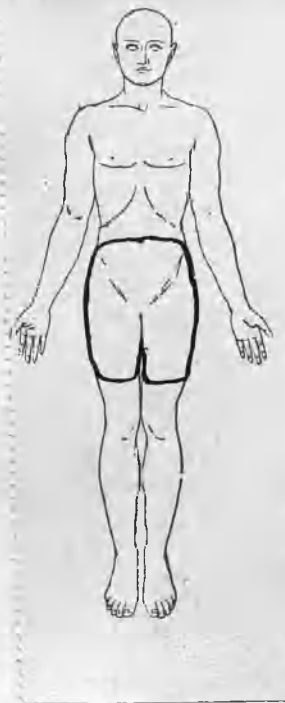
Name Patrick Drew

Age w yrs.

Date of Accident Jan. 28th 1908

Cause of Scalds Hot water

Extent & Degree of Scalding Front of both thighs & lower half of abdomen, to 2nd degree mostly.



Result Recovered

Blood count

Date	Red	White
<u>1908</u>		
Jan 28	Scalded	
" 28	4,750,000	28,750
Feb. 2	4,800,000	15,625
" 7		12,000

HAEMATOLOGICAL CHART.

58

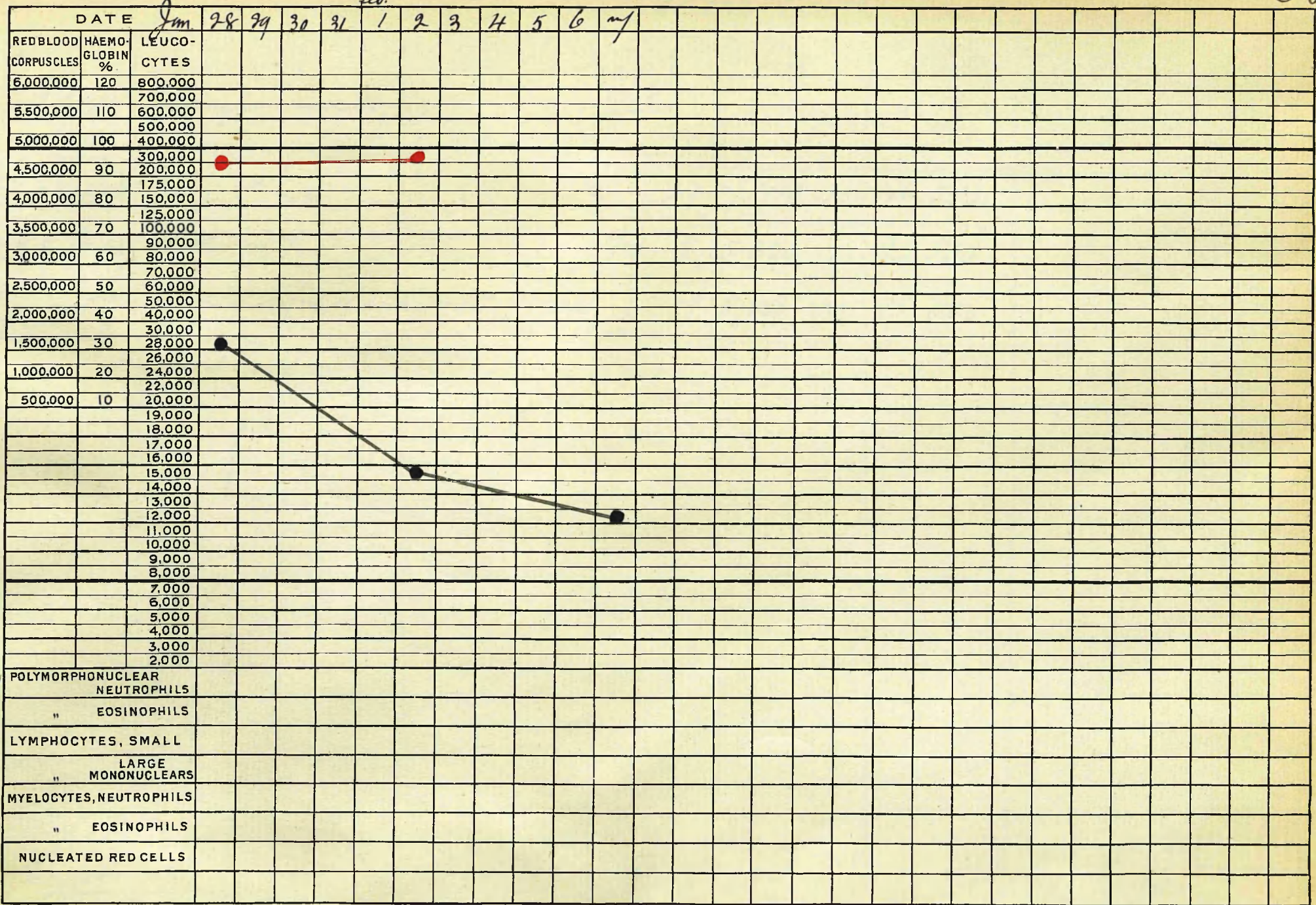
Feb.

Name
Patrick Drew

Age
ny nyrs.

Disease

Notes



Differential
Count
per cent.

- POLYMPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

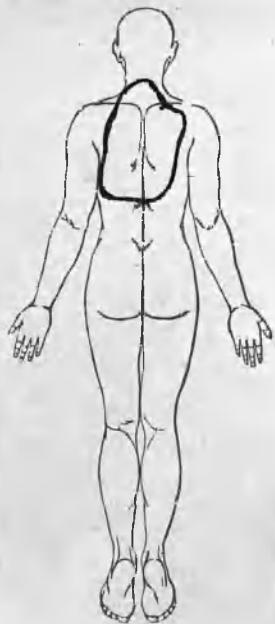
RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Blood count

Name Alexander Russell
Age 2 yrs.
Date of Accident Jan 29th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning A third of surface of back, mostly 1st partly 2nd degree



Date	Red	White
<u>1908</u>		
Jan 29 Burned		
" 29	4,750,000	46,250
Feb. 2	5,350,000	22,500
" "	5,000,000	15,000

Result Recovery

HAEMATOLOGICAL CHART.

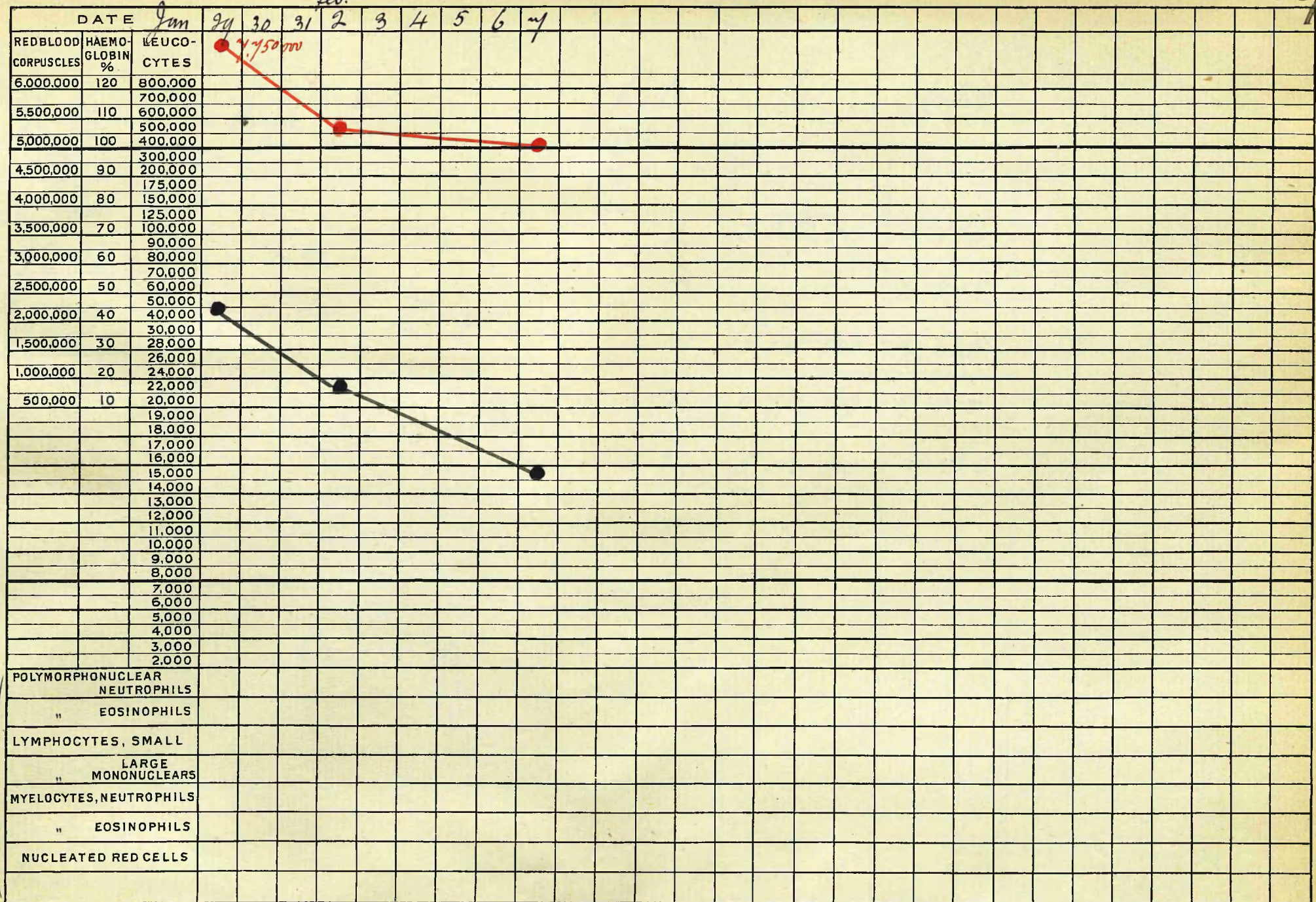
59

Name
Alexander Russell

Age
2 yrs.

Disease

Notes



Differential Count per cent.

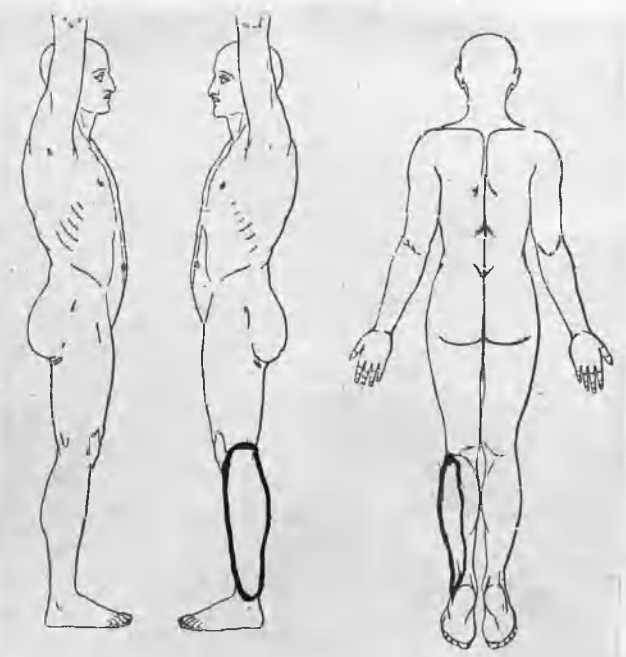
- POLYMORPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Name Lewis Doyle
Age 15 yrs.
Date of Accident Feb. 1st 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Left leg as shown : 3rd degree



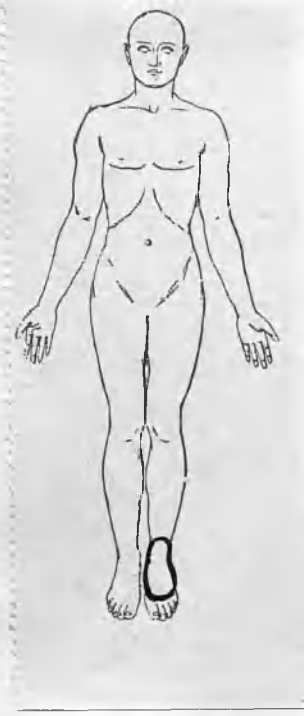
Blood count

Date	Red	White
1908		
Feb. 1 st Scalded		
" 2	5,350,000	8,750
" 7		11,875
" 14	5,000,000	12,625
" 21	4,700,000	10,000
" 28	5,000,000	8,750

Result Recovery

Blood Count

Name Peter Gillespie
Age 14 yrs
Date of Accident Jan 30th 1908
Cause of Scalds Boiling water
Extent & Degree of Scalding Left foot as shown - 2nd degree



Result Recovery

Date	Red	White
1908		
Jan. 30 th	Scalded	
Feb. 2	5,400,000	19,375
" 7		18,450

HAEMATOLOGICAL CHART.

Name

Peter Gillespie

Age

14 yrs.

Disease

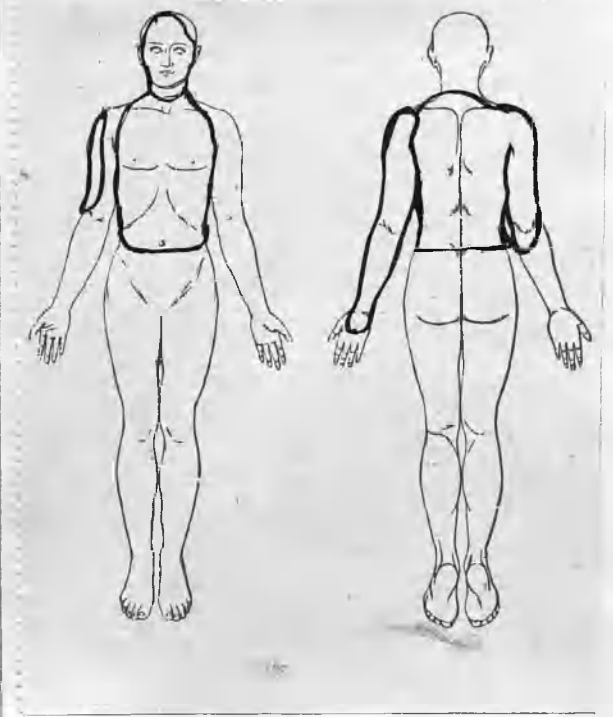
Notes

DATE		<i>Feb.</i>									
		<i>Jan</i>	<i>30</i>	<i>31</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
REDBLOOD CORPUSCLES	HAEMOGLOBIN %	LEUCOCYTES									
6,000,000	120	800,000									
		700,000									
5,500,000	110	600,000									
		500,000									
5,000,000	100	400,000									
		300,000									
4,500,000	90	200,000									
		175,000									
4,000,000	80	150,000									
		125,000									
3,500,000	70	100,000									
		90,000									
3,000,000	60	80,000									
		70,000									
2,500,000	50	60,000									
		50,000									
2,000,000	40	40,000									
		30,000									
1,500,000	30	28,000									
		26,000									
1,000,000	20	24,000									
		22,000									
500,000	10	20,000									
		19,000									
		18,000									
		17,000									
		16,000									
		15,000									
		14,000									
		13,000									
		12,000									
		11,000									
		10,000									
		9,000									
		8,000									
		7,000									
		6,000									
		5,000									
		4,000									
		3,000									
		2,000									
		POLYMORPHONUCLEAR NEUTROPHILS									
		" EOSINOPHILS									
		LYMPHOCYTES, SMALL									
		" LARGE MONONUCLEARS									
		MYELOCYTES, NEUTROPHILS									
		" EOSINOPHILS									
		NUCLEATED RED CELLS									

Differential Count per cent.

Blood count

Name John M^cGoldrick
Age 24 yrs.
Date of Accident Feb. 13th 1908
Cause of Burns Gun powder explosion
Extent & Degree of Burns Face, 1st degree, Back 2nd degree, Chest 2nd degree
Arms 2nd degree



Date	Red	White
1908		
Feb. 13 th Burned		
" 14	6,650,000	12,500
" 17	5,700,000	15,000
" 21	5,000,000	10,000
" 28		8,750

Result Recovery

HAEMATOLOGICAL CHART.

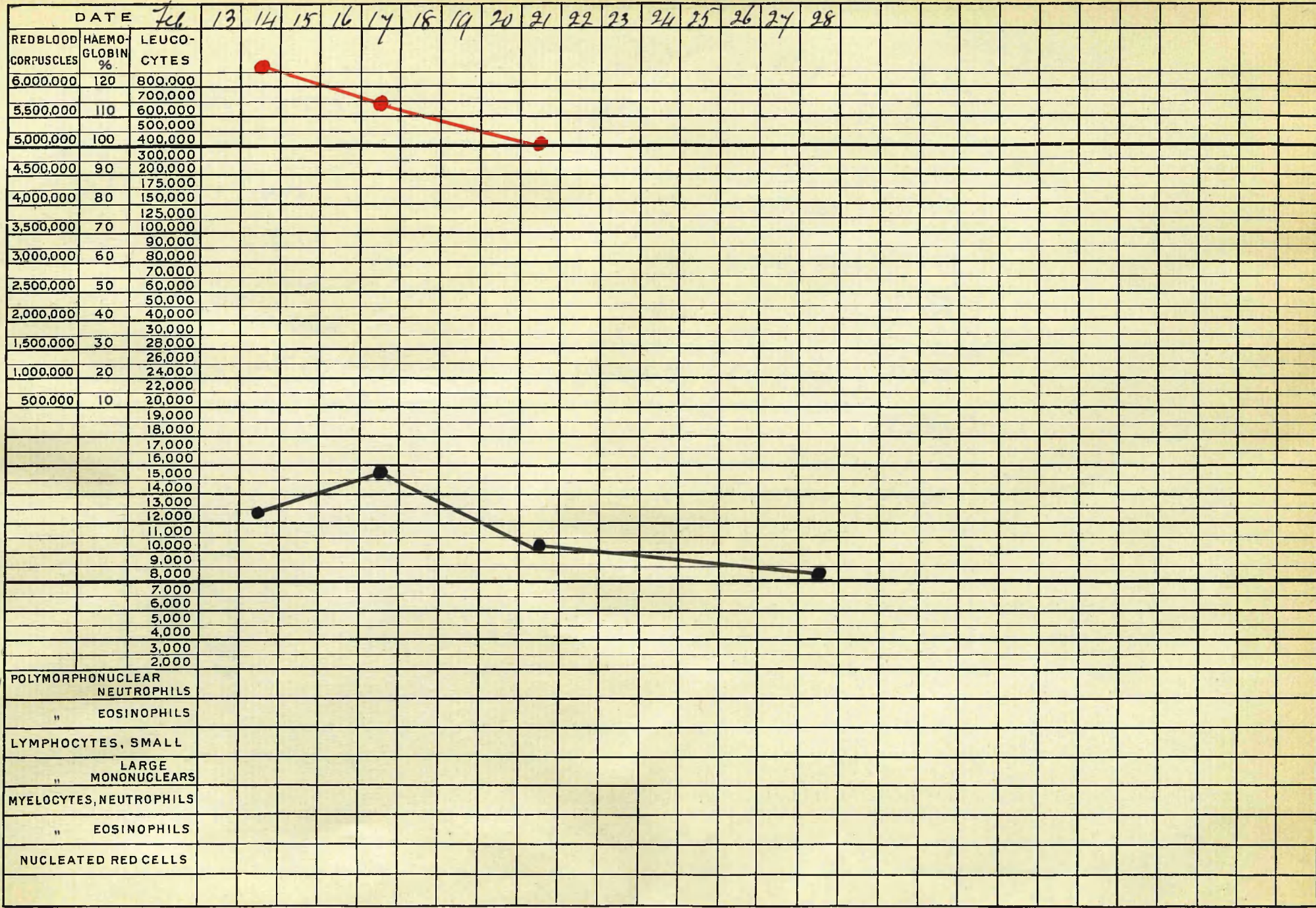
62

Name
John McGoldrick

Age
24 yrs

Disease

Notes



Differential Count per cent.

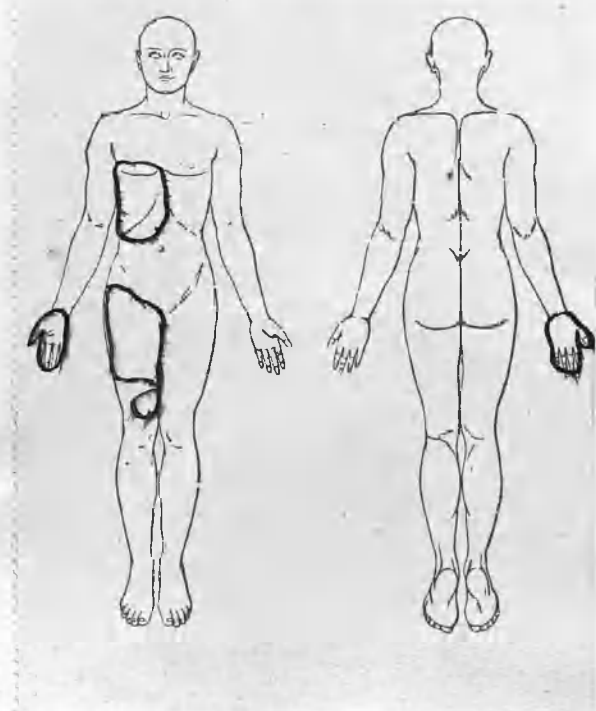
RED CORPUSCLES — BLACK

HAEMOGLOBIN — RED

LEUCOCYTES — BLUE

Blood count

Name Charles Wilcox
Age 56 yrs
Date of Accident Feb. 15th 1908
Cause of Burns clothes on fire
Extent & Degree of Burning
Right hand, 2nd & 3rd degrees
Chest, 3rd degree
Thigh, 2nd degree



Date	Red	White
1908		
Feb. 15 th Burned		
" 15	4,950,000	14,500
" 18	4,750,000	20,000
" 24		14,500
March 2	5,000,000	15,000
" 9		12,500
" 16	5,000,000	10,000

Result Recovered

HAEMATOLOGICAL CHART

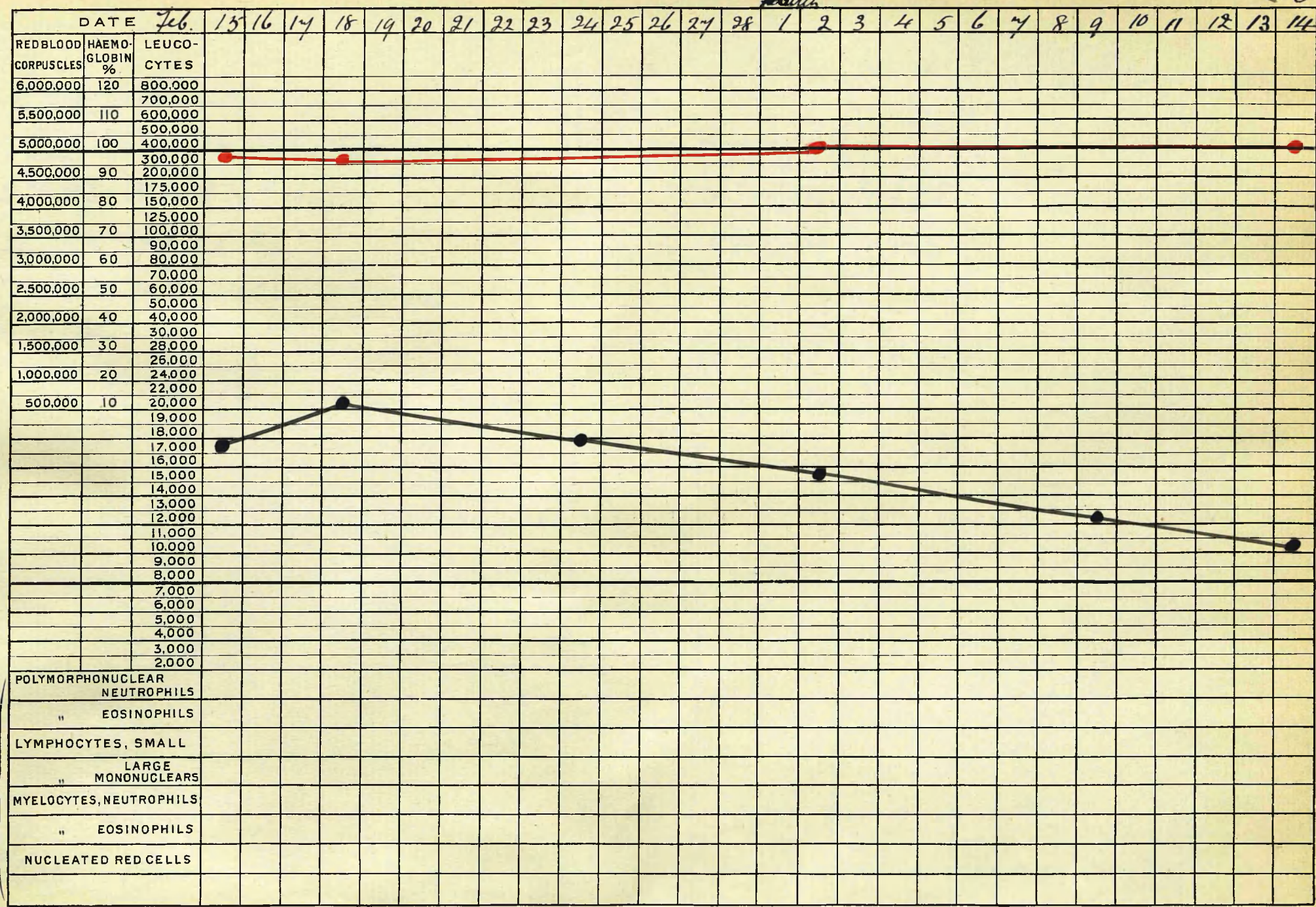
63

Name
Charles Wilson

Age
56 yrs.

Disease

Notes



Differential
Count
per cent.

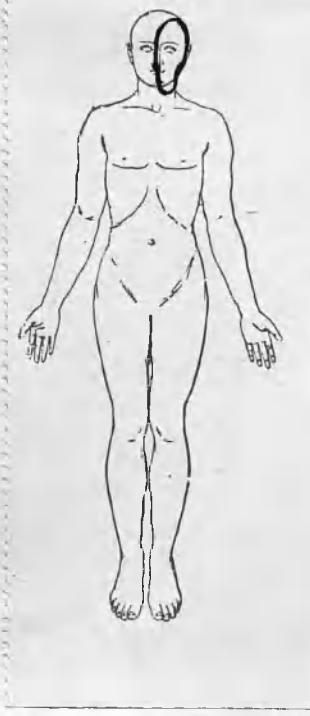
- POLYMORPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

Name Alexander Edgar
Age 3 1/2 yrs.
Date of Accident March 7th 1908
Cause of Burns Fell into fire
Extent & Degree of Burning Face as shown, 2nd degree



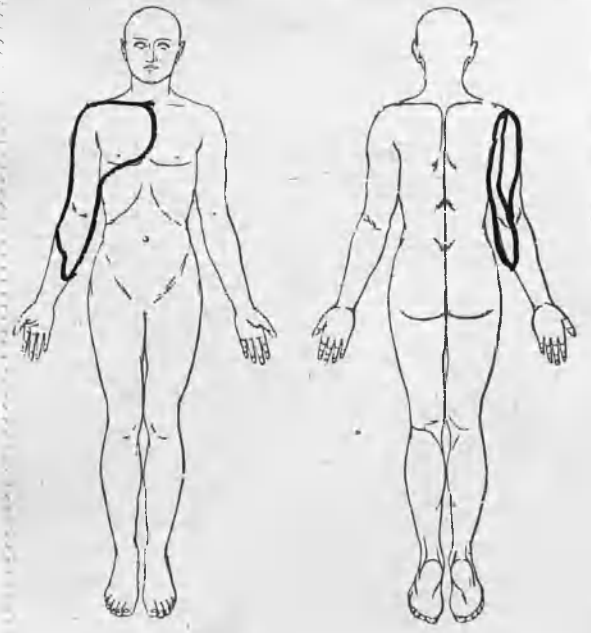
Resnet Recovery

Blood count

Date	Red	White
1908		
March 7 Burned		
" 7	3,450,000	31,845
" 16	4,000,000	10,000

Blood count

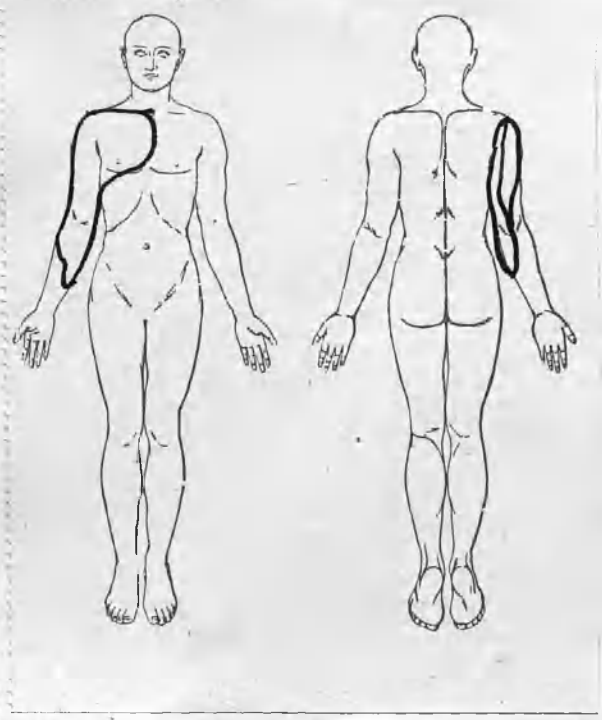
Name Robert Langan
Age 9 yrs.
Date of Accident March 15th 1908
Cause of Scalds Boiling tea
Extent & Degree of Scalding Right side of chest, right arm to 2nd degree



Date	Red	White
<u>1908</u>		
March 15 th	Scalded	
" 16	6,800,000	30,625
" 20	5,650,000	22,500
" 2 nd	5,750,000	13,750
April 2		13,750

Result Recovery

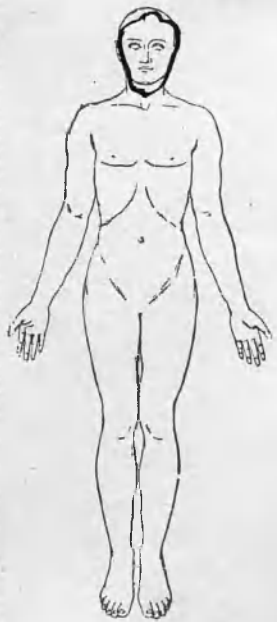
Name Robert Langan
Age 9 yrs.
Date of Accident March 15th 1908
Cause of Scalds Boiling tea
Extent & Degree of Scalding Right side of chest, right arm to 2nd degree



Result Recovery

Blood count		
Date	Red	White
1908		
March 15 th	Scalded	
" 16	6,800,000	30,625
" 20	5,650,000	22,500
" 2 nd	5,450,000	13,750
April 2		13,750

Name James Watson
Age 30 yrs
Date of Accident March 16th 1908
Cause of Burns Caustic Alkali liquid
Extent & Degree of Burning Face, & conjunctivae

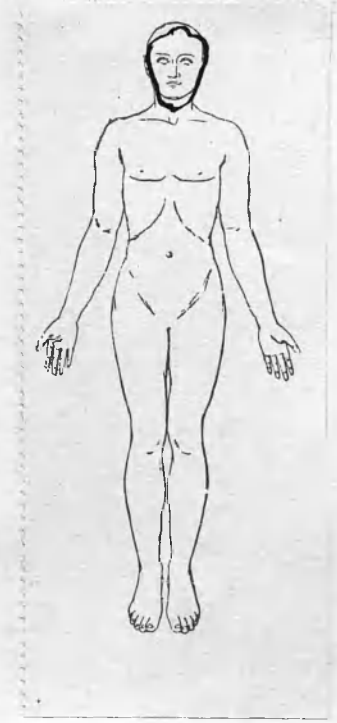


Result Recovery

Blood count

Date	Red	White
1908		
March 16 th	Burned	
" 16	5,000,000	11,845
" 20		10,000

Name James Watson
Age 30 yrs
Date of Accident March 16th 1908
Cause of Burns Caustic Alkali liquid
Extent & Degree of Burning Face, & conjunctival



Result Recovery

Blood count

Date	Red	White
1908		
March 16 th	Burned	
" 16	5,000,000	11,845
" 20		10,000

HAEMATOLOGICAL CHART.

66

Name
James Watson

Age
30 yrs.

Disease

Notes

DATE		Mar	16	17	18	19	20													
REDBLOOD CORPUSCLES	HAEMO-GLOBIN %	LEUCO-CYTES																		
6,000,000	120	800,000																		
		700,000																		
5,500,000	110	600,000																		
		500,000																		
5,000,000	100	400,000	●																	
		300,000																		
4,500,000	90	200,000																		
		175,000																		
4,000,000	80	150,000																		
		125,000																		
3,500,000	70	100,000																		
		90,000																		
3,000,000	60	80,000																		
		70,000																		
2,500,000	50	60,000																		
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2,000,000	40	40,000																		
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1,500,000	30	28,000																		
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		4,000																		
		3,000																		
		2,000																		
		POLYMPHONUCLEAR NEUTROPHILS																		
		" EOSINOPHILS																		
		LYMPHOCYTES, SMALL																		
		" LARGE MONONUCLEARS																		
		MYELOCYTES, NEUTROPHILS																		
		" EOSINOPHILS																		
		NUCLEATED RED CELLS																		

Differential Count per cent.

RED CORPUSCLES - BLACK

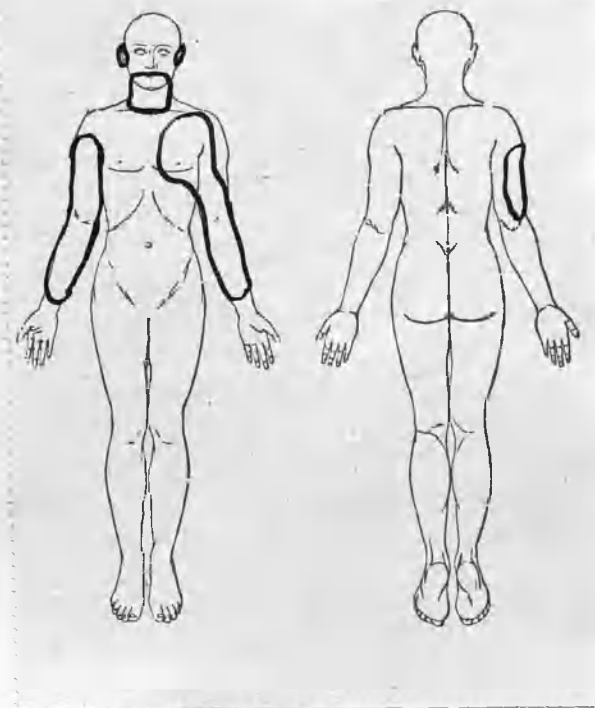
HAEMOGLOBIN - RED

LEUCOCYTES - BLUE

(Copyright) London, H. K. Lewis.

Designed by Edward Turton, M.D., B.Sc., M.R.C.P., Hull.

Name Jamie Hendry
Age 11 yrs
Date of Accident March 27th 1908
Cause of Burns Clothes on Fire
Extent & Degree of Burning Arms, chest, chin, neck, ears as shown mostly 2nd, partly 3rd degree



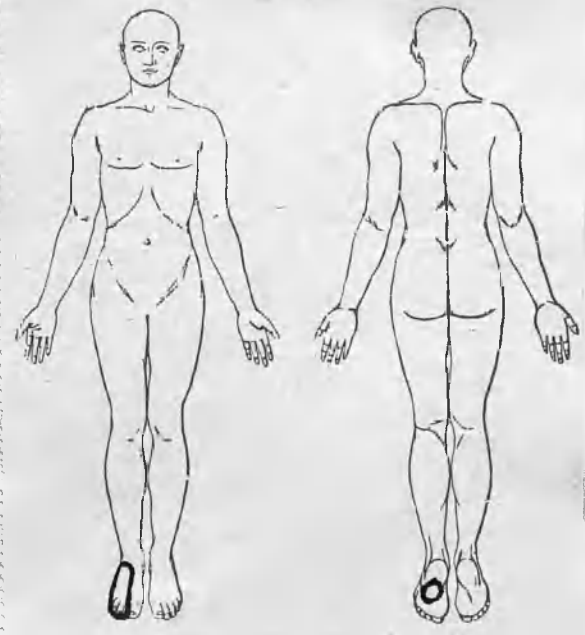
Result Recovery

Blood Count

Date	Red	White
<u>1908</u>		
March 27	Burned	
" 27	4,700,000	38,000
" 29	5,650,000	43,000
April 2		16,250
" 8		12,000
" 12		10,000

Blood count

Name William Smillie
Age 48 yrs.
Date of Accident March 2nd 1908
Cause of Burns Molten Iron
Extent & Degree of Burning Foot as shown: 4th degree.

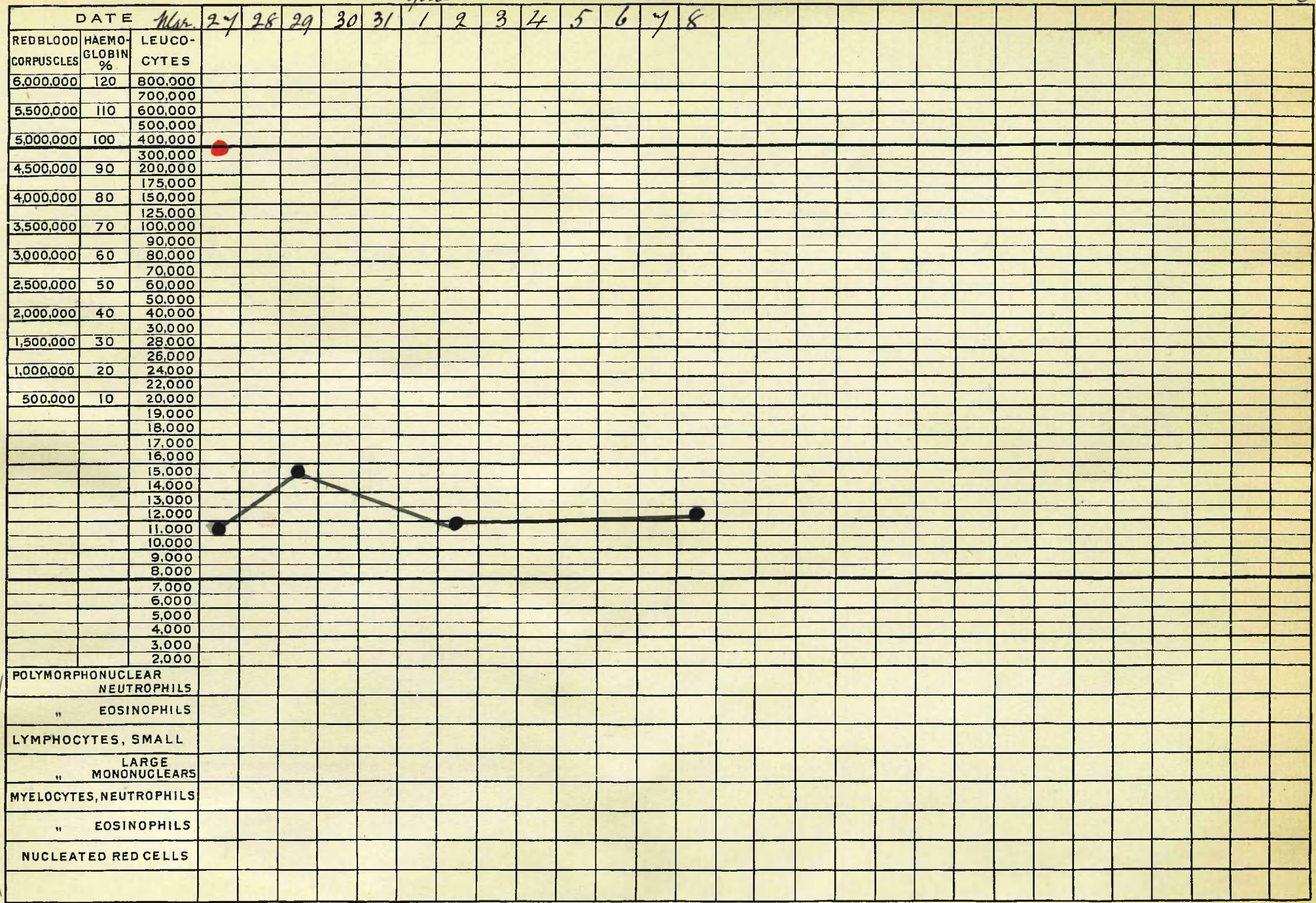


Date	Red	White
<u>1908</u>		
March 2 nd	Burned	
" 2 nd	4,950,000	11,250
" 2 nd		15,625
April 2		11,800
" 8		12,600

Result Recovery

HAEMATOLOGICAL CHART.

April



Name
 William Smillie

Age
 48 yrs.

Disease

Notes

Differential
 Count
 per cent.

- POLYMPHONUCLEAR NEUTROPHILS
- " EOSINOPHILS
- LYMPHOCYTES, SMALL
- " LARGE MONONUCLEARS
- MYELOCYTES, NEUTROPHILS
- " EOSINOPHILS
- NUCLEATED RED CELLS

RED CORPUSCLES - BLACK

HAEMOGLOBIN - RED

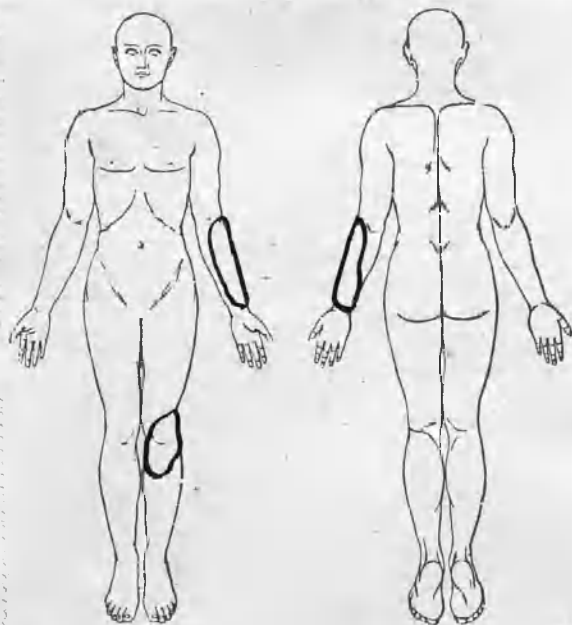
LEUCOCYTES - BLUE

Blood count

Name
Age
Date of Accident
Cause of Scalds
Extent & Degree of Scalding

Elizabeth Fox
 6 yrs
 March 29th 1908
 Boiling water
 Left Forearm, & left knee; 2nd degree

Date	Red	White
1908		
March 29	Scalded	
" 29	6,550,000	8,750
April 2		12,000



Result Recovery