

Volume of reports and photographs re No. 3 General Hospital (renamed No. 12 in July 1900), Orange River Colony

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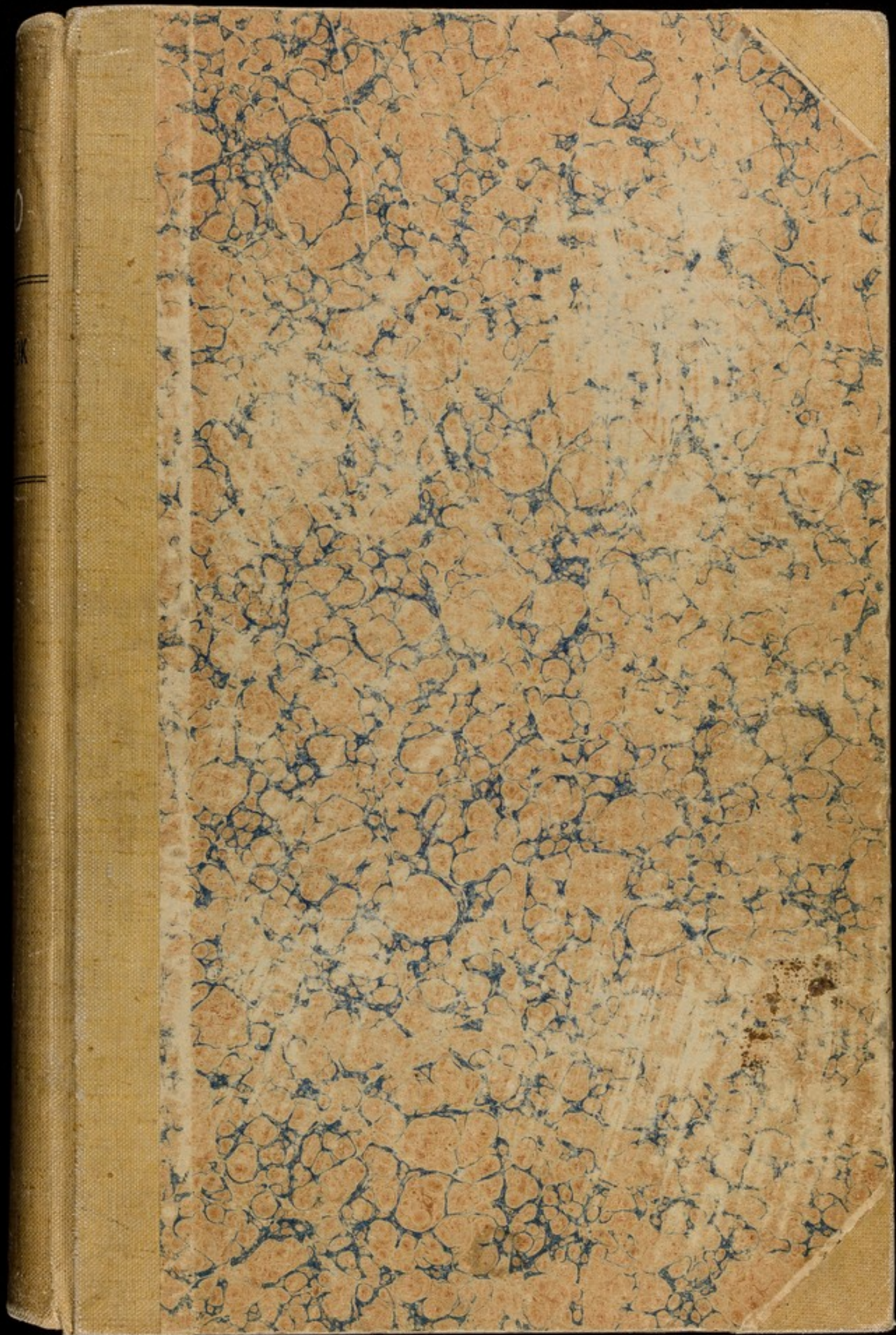
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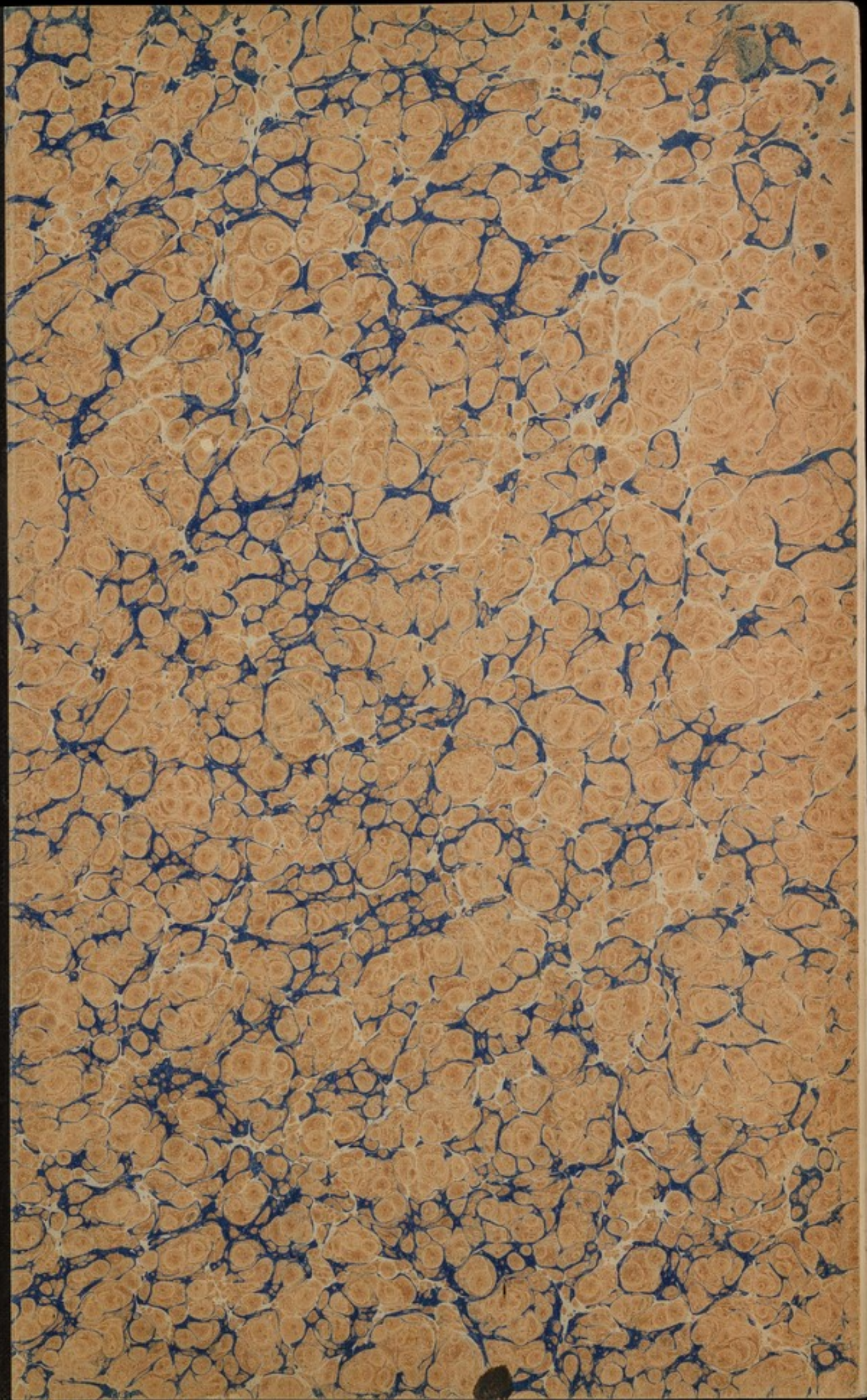
LIMITED.

GENERAL STATIONERS,

AND

MANUFACTURERS OF PATENT ACCOUNT BOOKS

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480

ROYAUME DE SUISSE
CANTON DE Vaud
Municipalité de Yverdon
N° 1234



COMMUNE DE YVERDON
N° 1234

ROYAUME DE SUISSE
CANTON DE Vaud

ROYAL ARMY MEDICAL CORPS
 GENERAL No 12 HOSPITAL
 SPRINGFONTEIN



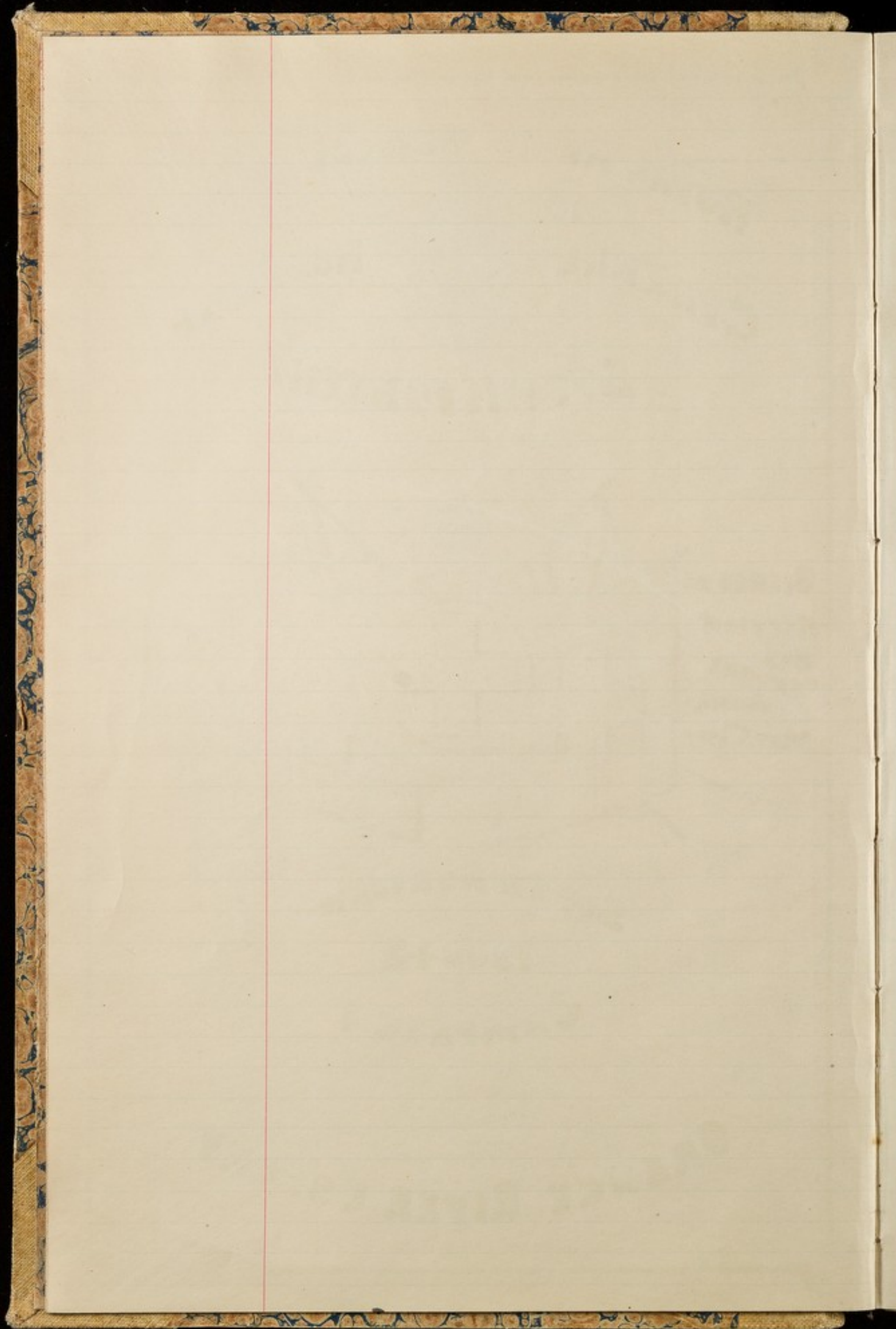
OPENED AS
 SECTION
 No 3
 GENERAL
 HOSPITAL
 MAY 5TH 1900



RENAMED
 No 12
 GENERAL
 HOSPITAL
 JULY 1900
 CLOSED FOR
 PATIENTS

SOUTH AFRICAN
 1900-1-2
 CAMPAIGN

ORANGE RIVER COLONY



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Visited & inspected No 12 General
Hospital on Dec 23rd and
24th & found all very satisfactory
& the patients well looked after
& attended to. This reflects all
the more credit on the N M O
Col Sumnerville Large as there are
nearly 68 M. A. M. E. of all ranks
exclusively of officers

Springfield
O M E

Dec 24th 1901

W. B. Allen
Col.

N. M. O.
O M E.

Inspected No 12 GP this day and found it in
most satisfactory condition.

11 April 1902

W. B. Allen Surgeon Genl

R M O Army

May 23rd 1902

Inspected hospital today & found all
most satisfactory, reflecting credit on
all concerned.

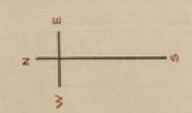
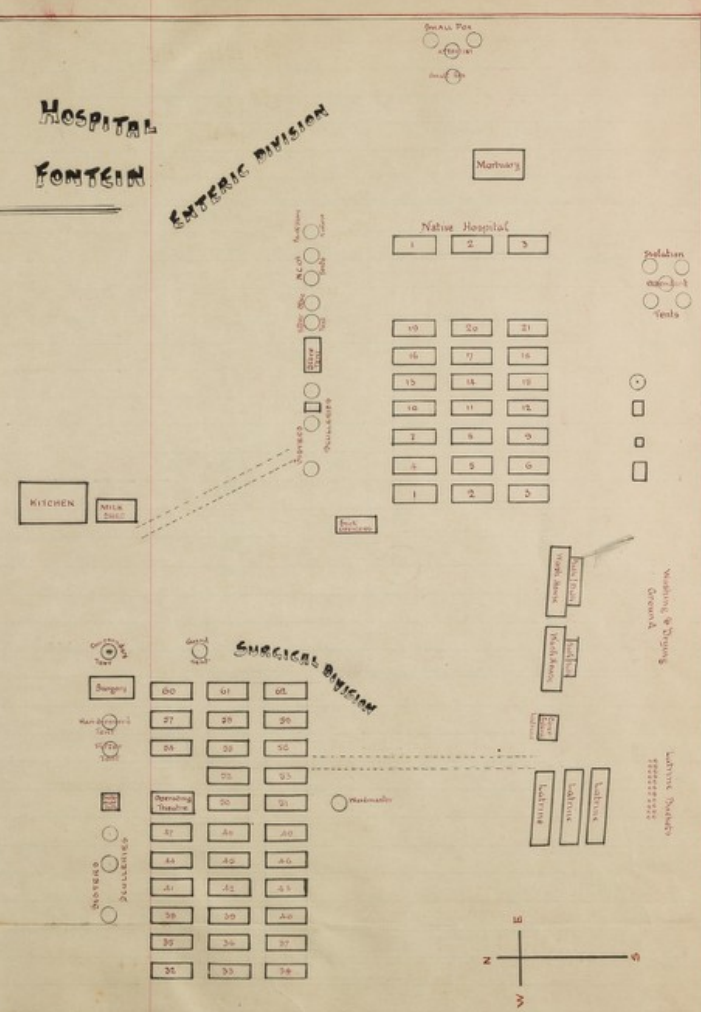
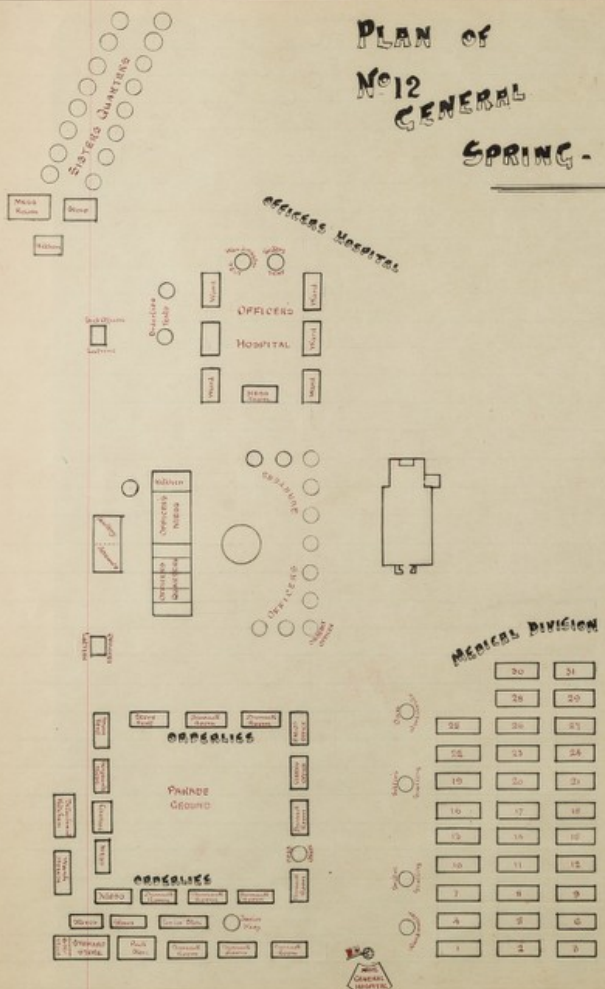
May 23rd 02

W. B. Allen
Col

N M O
O M E

PLAN OF No 12 GENERAL SPRING -

HOSPITAL FONTEIN ENTERIC DIVISION



No 12 General Hospital.

Table showing Admissions & Deaths (all diseases) for the years 1900, 1901 & 1902.

Months	Admissions				Deaths				Percentage of Deaths
	1900	1901	1902	Total	1900	1901	1902	Total	
January		454	525	979		17	23	40	4.08
February		301	422	723		5	17	22	3.04
March		301	240	541		9	5	14	2.59
April		598	194	792		14	1	15	1.90
May	683	453	148	1284	51	17	1	69	5.38
June	661	366		1027	27	2		29	2.82
July	377	324		701	10	8		18	2.56
August	297	349		646	3	6		9	1.39
September	260	332		592	2	2		4	.67
October	328	261		589	7	5		12	2.04
November	265	341		606	3	29		32	5.28
December	429	446		875	19	24		43	4.91
Total	3300	4526	1529	9355	122	138	47	307	3.18.

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Report on No 12. General Hospital - Springputen O.R.C.

Springputen is the junction of the Cape and East London line situated in the open field, toward the South of Orange River Colony, It consists of a few Galvanized iron houses for Railway employees and has nothing worthy of description or note. Several low kopjes surround it about two miles radius from the village. It stands about 5000 feet above sea level. The climate in winter is sometimes severe rising to heavy frosts cold winds and snow storms, from December to March severe fogs and dust storms are very prevalent the former being very destructive to hospital marquees and tents, the latter occurring during the winter fever season cause much discomfort and are deleterious to the sufferers from this and other diseases. The sudden changes of temperature are also trying, frequently aberrations from 12 to 15 degrees has been registered between midday and night.

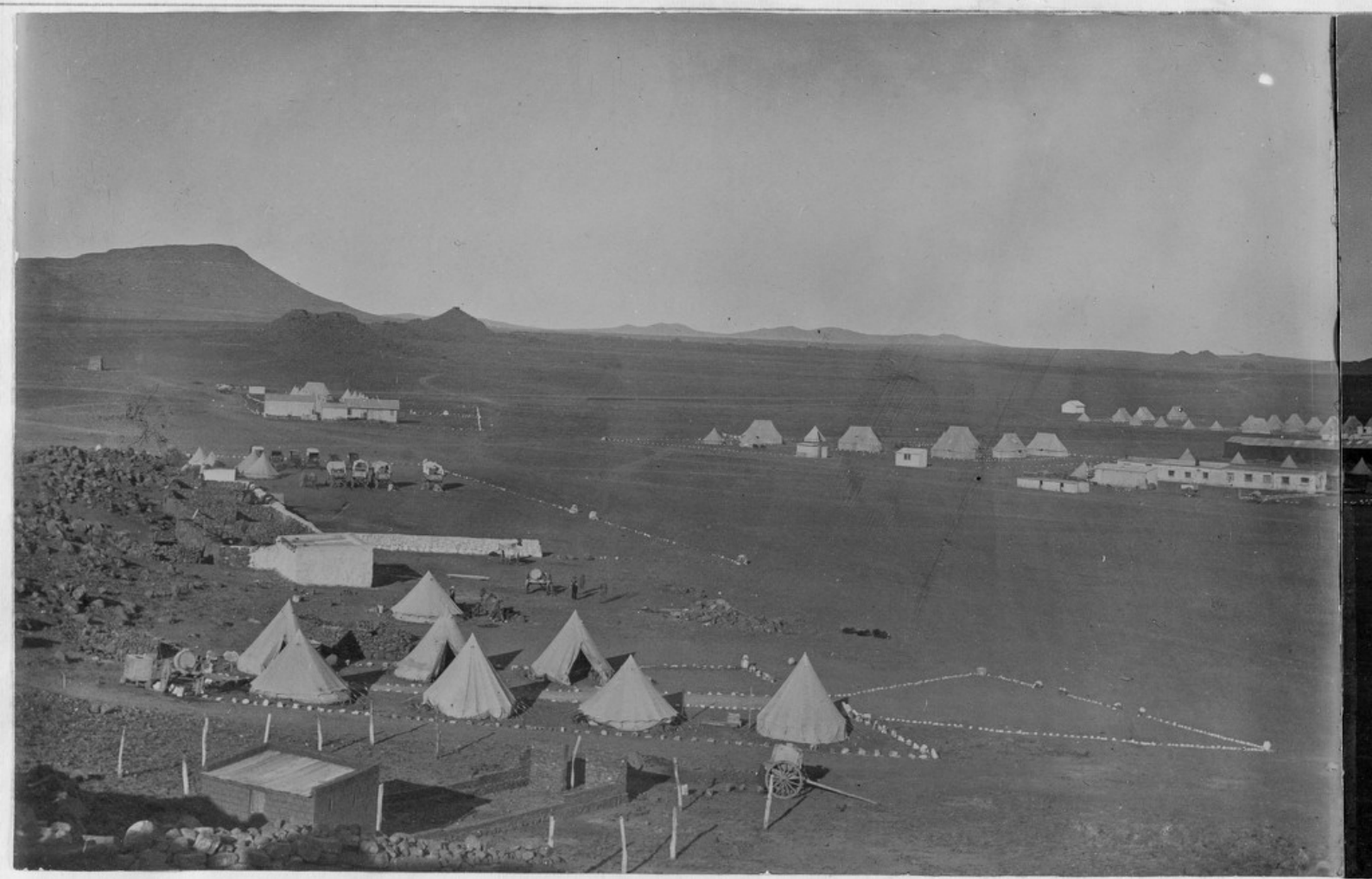
The Hospital is on a rising plateau situated about three quarters of a mile to the east of the railway station. The distance was very convenient for the transport of sick and necessitated the keeping of a large hospital transport. The early history of the Hospital dates from 5 May 1900, when a section of



9

No 3 General Hospital was sent from Cape
Town and established as such under
the charge of Lt Col Keogh to the Station.
Subsequently it has been under the dis-
tinguished Command of Colonel A. W.
Duke from 11th August to 15th November 1900,
and Colonel W. B. Allen from 16th November
1900 to 10th November 1901. During the few
days intervening between the last
named officer's departure and my
arrival, Lt Colonel H. W. Murray admin-
istered, I received orders from P. M. O.
arriving on Tuesday 19th November 1901
to proceed to Springfontein and take over
P. M. O. duties of No 12 General Hospital
which I did on Sunday 24th idem.
At the time of my arrival it was equipped
with 360 beds. But shortly afterwards
I received an order from the P. M. O. M.C.
to have them increased to the regulation
number of 520. Which was further in-
creased to 580 due to slight pressure
by patients arriving from up Country
(principally transfers from other hospitals).
During the earlier months of
this year when enteric fever and
dysentery were prevalent, it has
been returned to its regulation size,
the season for these diseases, having
passed.

The Hospital is divided into four divi-
-sions, Medical, Surgical, Enteric
officers and patients which will
be dealt with under their several
heads. The two former lie alongside
one another, separated by a space
of about fifty yards, in which
were situated the Surgery, Night
warden's tent, Sisters' quarters







11
light & day, filtered water tents and
hair dressers establishment. Behind
these two divisions lie the Cook Houses
in the front and at the side of each
division were wide promenades amply
supplied with garden seats for the ac-
commodation of ~~convalescent~~ patients
from where they could view the frequent
games of football Cricket &c. played.
- Please see ground plan.

The British pattern Marquee were
the only sort used in this hospital
and were satisfactory, they were
arranged in rows with 6 feet path
between each and were equipped
with one table and four 6 ft. single
bedsteads, Windsor Chair and all
other ward equipment laid down
by regulation. Some Marquees had
wooden floors, and some tarpaulin
coverings which were far preferable
to the former. As they allowed more
external space, Bank frames did
not grow under them, nor vermin
exist. besides being more easily
kept clean. The Marquees were
all lighted by oil lamps, which
are dangerous and give insufficient
light and are unsatisfactory in
being easily and constantly broken.
Electric light is far preferable. Each
General Hospital should be fitted
with an Electric plant and lighted
by electricity.
The Nursing Sisters' pantries were
situated alongside the divisions
they looked in.
Separate tents were set apart



HAIRDRESSER
Hours 9 TO 1
2 TO 3-WARDS





in the Medical Division for Tubercular Disease and Lues.

The Chief Points of Construction and Interest are

A Dairy Size 15 feet by 10 ft., to keep milk cool and fresh and free from contamination after Sterilization. One hundred weight of ice was kept in it constantly during the hot weather. It was built of brick with galvanized iron roof and was fitted with shelves and large tin and enamel vessels with covers.

Photo -

A Cookhouse attached to above solely for milk Sterilization. Frequently 500 pints of fresh milk had to be thus treated daily. It was the same size and of same construction as the Dairy and fitted with three Sterilizers.

Photo -

Sterilizer for Intestine Secreta and Urine. Consisted of two large Rappin pots set in brick fireplaces. This was absolutely necessary and was erected in December 1901.

Nursing Sisters Night Sanitaries one in the General Hospital in a Central position and one in the Exterior Division. They were also built of brick with galvanized iron roofs. They proved of much benefit to the Sisters on night duty during the severe winter nights and were fitted with two double oil stoves and other necessities for comfort & ease.





Handdresser. Handdresser tent where patients could get their hair cut free of charge. The handdresser was liable for calls to bedridden patients on requisition. Ordered by Medical officers or Senior Wardmasters of Division.

Board Boxes. Board boxes for patients food &c. made out of medicine packing cases, painted red with number of board on each. These were beneficial in preventing contamination from dust and flies in these articles.

Recreation Room. Recreation Room, which was first used in April 1902. Consisted of a brick house with galvanised iron roof size 100 ft. by 28 ft. At one end was a stage 20 ft. deep, the back portion of which was fitted with an altar and accessories for divine service. Dailed off from the rest of the stage services for all denominations were held in this hall. Also frequent concerts, teas and other entertainments. The other end of the hall was fitted up as a library, reading and writing room, a plentiful supply of books, magazines and papers sent by kind friends in England, a good piano; also writing table with ample supply of writing materials were provided there. Comforts were much appreciated by the patients and hospital personnel, previous to this hall being built, four marquees laced together













pruned the recreation tent, they being
very destructive to Canvas led me to
build this Hall.

Divine Service.

Divine Service was held in the Recreation
Hall at the following hours on Sunday
Church of England Celebration 7 am.
Roman Catholic Mass 8. "
Matins 11. "
Even Song 7 pm.

and also on Wednesdays.

Presbyterian Service was held when a
Clergyman of that denomination
visited the Hospital.

A large harmonium which was found
on the desert island was played by
Nursing Sister Whiteford. The Choir
consisted of Nursing Sisters, Officer
R. C. Officer and others about 15 in number.
These made our Service bright and
cheerful. The Chaplain also held
Classes of instruction for patients
and personnel when they wished
to attend.

Morning and evening Service
were by the wish of the Commandant
and the Chaplain, also the Garrison
Service on Sundays. Many Civilian
from the village and Refugee Camp
attended our Services.

Kitchen.

The main Kitchen was situated at
a point directly behind the Medical
and Surgical Divisions, and equi-
distant between them and the Entering
Division, it was about 40 ft long
by 15 ft wide with a large Scullery
attached which was fitted with a long
gynic trough stand with a plentiful
supply of water, hot & cold, a drain pipe







For the Scullery and Kitchen led to a cesspit behind the latrine at the South Side of the Hospital which was emptied morning and evening into a large iron tank.

The Kitchen was fitted with two double ranges with two large hot water boilers attached and a storage cistern overhead. Two large 'Cattle boilers' were fixtures, principally used for making Soup, of which an ample supply was always ready for incoming Convalescents. Four more boilers were situated outside the Kitchen, used for boiling potatoes and other vegetables. A hot plate 'hold 400 lbs' was constructed in May 1902.

The dietary used is that commonly in use in General Hospitals and which is satisfactory. The men prefer to have their ^{meal} ~~at their~~ ^{boards}, though a dining room was ready for their use if they wished to use it. The Cooks establishment consisted of a Serjeant Cook and Corporal and when paid for natives this was found a sample.

The milk Kitchen situated alongside was only used for sterilizing milk. As already stated some 900 pint of milk were sterilized daily during the entire ^{year} season.

Opposite are photographs of the Kitchen as well as one showing the diners being served.







Men's
Dining Room

21

Hyd Mangue separated from the
Dining Room for the Corporals and
Private, Rank, and Regimental
Orderlies in all 12 Messes, the Corp
Lat at each table. Service order and
regularity. Shortly after my arrival
I established a separate mess in an
adjacent Mangue. This was a very
acceptable change. What previously
existed of all M. C. O's dining together
and living together.

Canteen

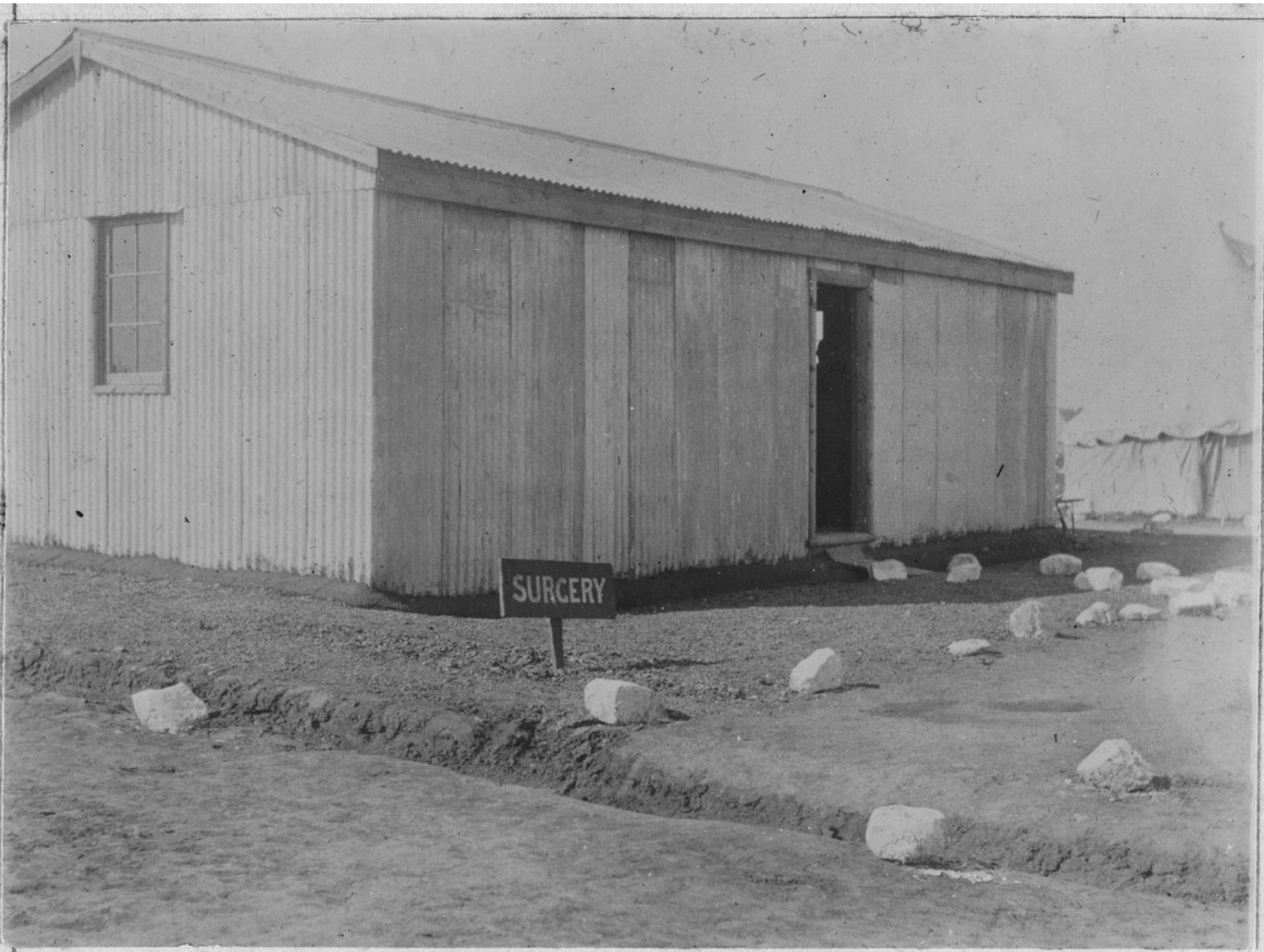
A Canteen was erected in January
1942 built of brick and zinc roofing
half being a beer store ~~the other~~
~~half being~~ and dry Canteen, the latter
was especially acceptable to the men
provisions being sold at the same
prices as at the Field Force Canteen.
Each man of the hospital personnel
with the kind permission of the
General Officer Commanding was
permitted to have one pint of beer
daily on payment. This liberty
was much appreciated by the
men and it was never abused.
The other half of Canteen was used
as a store for Red Cross Supplies
which were issued ~~once~~ a week
under my observation. A warrant
officer slept in the room for the
safe custody of all food.

Red Cross
Store.

This photograph shows the exterior &
interior of the Surgery which was
situated at the East end of the
hospital between the Medical
and Surgical Divisions and
convenient to the Enteral Division.









It consisted of a galvanized iron
tub constructed in April 1902. It was
upheld by the every necessary for treatment
of sick

Filter Tent. Filter tent was established in December
1901. previous to which filter did not
seem to have been much used.
A tent was situated between the Medical
and Surgical Division fitted with
two large painted barrels, which
obtained from the South African
Glover's Co. behind which two
Berkeley filters stood in charge of
two natives. These were constantly
inspected daily. The candles were
boiled twice weekly and wiped
clean sometimes as often as twice
daily to ensure cleanliness.
A filter tent was also placed in
the interior division on the same
principle. By this a good supply
of filtered water was obtained for
drinking purposes.

Latrines. The dry earth system is in use
for latrines the buckets being
emptied into and removed by iron
sanitary carts moving & leaving
disinfectants such as Quicklime
Carbolic powder, and Iodo
freely used. The buckets thoroughly
cleaned daily and tarred over weekly.
Ropes with dry earth and Chloride
of lime for use were placed in every
latrine.
The latrines three in number for
patients were placed at one side
of the Camp, two for ordinary patients.







Urinals

and one for Convalescent Patients only. Three seats are divided off in one of the former and managed by a nurse (Patient only). All the high soil from the Convalescent Patients latrine was sterilized. The floor were of concrete which sloped toward a drain at the end of which was a Catchpit which was emptied daily.

Washhouse
and
Baths

Bucket placed inside the front wall of the latrine formed the urinals, these were emptied twice daily and well disinfected with Chloride of Lime or Igal.

The wash houses two in number for patients, are situated about 20 yards from the latrines. they are wood and wry structures built open in front (which is a mistake) and are fitted with a rudimentary iron washing trough table in the centre with 30 basins in each for water is laid on into them. I have had a standard pipe erected outside each bath house has two bathtubs attached at the back one being reserved for general patients and one for the hospital personnel. Hot water for bath is supplied by two Loyer's boilers in charge of a Native a very primitive and unsatisfactory arrangement.

A latrine shed for the reception of Stools was instituted in January 1902. which stand 20 buckets -







for all Slops and Contents of Chamber pots and bed pans from the Medical and Surgical Divisions, these buckets are treated in exactly the same manner as the latrine ones, only a strong solution of lye was the disinfectant used. The Contents were Carted away in four Sanitary Carts Wednesday and evening. Previously the Slops were sunk in pits one and a half feet deep situated within 50 Yards of the latrines and in the middle of the camp.

For Sanitary arrangements of the entire Division see the report on that Division.

Quarter Master Department.

By far the most onerous and difficult duties of this hospital are the arrival lay with the Quarter Master Department which were ably carried out by Lieut A. Wheeler and his Staff handicapped as he was by very limited accommodation for storage. I will only remark here on

1. Provision Store and Supply of food stuffs.
2. Lumber and Clothing Store.
3. Pack Store and Armory.

Steward's Store.

The Steward's Store consists of 2/3 a wooden hut, if the measure 25 feet long by 16 feet broad and is too small for requirements in it are only kept readable and drinkables. Combustible articles being





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- factory regarding the keeping of the clothes. Clean and dry difficult







29

2025-01-21

DIET ACCOUNT of PROVISIONS.

(FOR RETENTION IN THE HOSPITAL)

RECEIVED, ISSUED, AND REMAINING, FOR THE MONTH OF

190

Abstract of Hospital Stoppages.

- factory regarding the keeping of the clothes, clean and dry difficult

DAILY ABSTRACT OF DIETS AND EXTRAS ORDERED

Day of Month	DIETS										EXTRAS														Total	Diets	Under Rice Water & Oatmeal and Tea 7/11 7/15 7/19 7/23 7/27 7/31 8/4 8/8 8/12 8/16 8/20 8/24 8/28 9/1 9/5 9/9 9/13 9/17 9/21 9/25 9/29 10/3 10/7 10/11 10/15 10/19 10/23 10/27 10/31 11/4 11/8 11/12 11/16 11/20 11/24 11/28 12/2 12/6 12/10 12/14 12/18 12/22 12/26 12/30 1/3 1/7 1/11 1/15 1/19 1/23 1/27 1/31 2/4 2/8 2/12 2/16 2/20 2/24 2/28 3/3 3/7 3/11 3/15 3/19 3/23 3/27 3/31 4/4 4/8 4/12 4/16 4/20 4/24 4/28 5/2 5/6 5/10 5/14 5/18 5/22 5/26 5/30 6/3 6/7 6/11 6/15 6/19 6/23 6/27 6/30 7/4 7/8 7/12 7/16 7/20 7/24 7/28 8/1 8/5 8/9 8/13 8/17 8/21 8/25 8/29 9/2 9/6 9/10 9/14 9/18 9/22 9/26 9/30 10/4 10/8 10/12 10/16 10/20 10/24 10/28 11/1 11/5 11/9 11/13 11/17 11/21 11/25 11/29 12/3 12/7 12/11 12/15 12/19 12/23 12/27 12/31 1/4 1/8 1/12 1/16 1/20 1/24 1/28 2/1 2/5 2/9 2/13 2/17 2/21 2/25 2/29 3/5 3/9 3/13 3/17 3/21 3/25 3/29 4/2 4/6 4/10 4/14 4/18 4/22 4/26 4/30 5/4 5/8 5/12 5/16 5/20 5/24 5/28 6/1 6/5 6/9 6/13 6/17 6/21 6/25 6/29 7/3 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Kept under Canvas Shelters in

ON ARMY FORMS I. 1202 AND I. 1205 DURING THE MONTH.

I. 1202 AND I. 12

EXTRAS																								
Wines					Malt Liquors					Spirits					Extras to Sick Women and Children out of Hospital									
Port	Sparkling	Still	Claret	Chateau	Draught	Porter	Ale	Soda Water	Lemonade	Brandy	Whisky	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple	Apple
oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.	oz.
20	9811	5	725 265	380	347	2885	2082			4702	1028	2	574	132	34	956		3						
45	225 6	800	299 474	845	931	4425	4993			12831	493	90	252	2116	125	296	21	76	13					
52	18 268	490	34 571	1174	274	8483	5407			5243	297	24	644	632	219	930		110	15					
39 4	14895		642 12	6117	784	9027	5161			2325	482		1390	68	421	600		126	16					
56 4	14089		60 328	186 469	646	9764	4058			1403	224		835	1083	1341		47	13						
47 4	11726		50 230	344 2876	263	4983	5790			1946	212		616	792	1801		121	23						
46 3	10038		1 1328	43520	287	3843	2812			26824	237			75	2882		84	23						
29 2	9471		13 945	294 2873	72	3890	1873			1397			639	145	772	1699		143	37					
47 4	9445		2 945	294 2873	175	4047	5147			978	310		765	730	58	1191		143	48					
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2 36 4	15046		90 128	2401	477	991	8953	5026		4235	994		1076	139	196	573		189	42	28				
7 11 2	16113		162 234	28776	7047	1660	10089	3393		4302	2010		1043	707	178	32		121	3					
16 29 4	10419		38 291	659 825	1390	14013	5371			4915	2450		1094	905	130	86		254	20					
81 4	14007		416 325	307 5866	1279	2499	3407			685	250		1011	214	186		522	61						
7 24 4	14190		507 445	103 1006	1090	1747	2254			4853	2448		1153	533	176	105		362	34					
10 4 4	11898		523 375	5549	8766	648 4590	1043			3816	772		960	104	108		282	15						
7 31 4	8449		447 286	595	6749	975 4576	1628			4918	367		1158	136	138		551	9						
6 7 2	6507		186 103	2648	6374	739 11046	1817			3767	536		907	86	137	322		337						
4 7 4	4252		151 463	210	5213	570 9840	2290			3900	1060		533	48	166	1044		284	17					
2 10 4	12276		302 197	476	5377	225 10977	3699			4616	1033		277	97	114	2817		261	76					
81 3	16381		3 344	309 402	8762	805 6390	7944			5224	1258		476	127	101	5219		293	33					
10 31	18197		1 284	372 74	11250	1295 7434	7843			4718	902		105	4077		510	31							
3 3 1	19735		1 744	349 877	1002	1532 4803	7175			5598	1510		122	25	195	1661		435	65					
2 105 3	14275	31	39 243	891	8946	60 11253	4495			5448	47208		204	92	182	604		174	64					
25	7842	153	2	800 702	6244	8241	4762			4507	452		40	3	140	336		64	6					

Valentine M. Rame

- factory regarding the keeping of the clothes. Clean and dry difficult

DAILY RECEIPTS

Receipts from Contractors and Supply Department

	Beef		Beef Steaks		Beef for Beef Tea		Mutton		Mutton Chops		Fowls	Fish	Potatoes		Vegetables		Bread	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	No.	lbs.	lbs.	oz.	lbs.	oz.	lbs.	oz.
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Total of daily receipts sub-divided as below*																		
Add: Remaining from last Account ...																		
TOTAL RECEIPTS																		
TOTAL ISSUES																		
Remain carried to next Account ...																		

* FROM WHOM RECEIVED

Contractor

Mr.

Kept under Canvas Shelters in the open, and how valuable article in portion of an adjacent hut. There was never any shortage of Supplies except fresh milk worth mentioning during any time as such, the Officer in Charge of Supplies receiving all demands. The Steward kept at the Steward's Store to ensure the safety of Supplies. Attached Army Form 735 showing the total monthly expenditure since the hospital was established which also shows grand totals for the whole period, from which can be judged the amount of work done in this Department. Photo attached gives a view of interior of the Provision Store and showing the Steward and his assistant in the act of issuing Supplies.

When and Taking into Consideration the Clothing Store. Great difficulties the Ordnance Department had to contend with in the transport of goods during the early period of the Campaign from the base. The numerous duties of this Section, were well carried out. The Supplying of Clothing to Patients while in Hospital also their bed linen was done in this Department, which consisted of two warehouses, one for Clean Linen 'The Issue Store' and one for Soiled Linen 'The Collecting Store'. Tent Storage is at all times a satisfaction. - factory rendering the keeping of the Clothes, Clean and dry difficult.



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Month.

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 December. "
 January, 1901
 February. "
 March. "
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 May. "
 June. "
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 December. "
 January 1902
 February. "
 March. "
 April. "
 May. "

Total.

The Laundry work also fell on this section, the Soiled Clothes having to be sent to Haamsoort, was a cause of much difficulty, and the delay in their return which nearly always took place gave rise to much inconvenience (in shortage of Clean Linen and Clothing) so much so that the hospital had to be doubly equipped in this respect to be prepared for emergencies, besides which I established a rough laundry alongside the hospital to wash articles which were mostly in demand (See photo.) By this I saved the Government also considerable expense, over 600 articles being washed weekly.

The Clothing of patients discharged from hospital was also carried on in this Department. Since May 1900 all patients were supplied free of charge with a complete outfit of portion of same as the state of their clothes required, this included uniform and underclothing, the amount of work and responsibility the Extra duty entailed can be judged from the appended return which gives the total issue by month also grand total for the Campaign.

I am of opinion that a Laundry should be attached to every General Hospital under proper management. All the washing both at Haamsoort and here was done with cold water and was consequently not very satisfactory. All linen used in the treatment of Contagious and infectious cases was disinfected in Thresh's Machine before being sent to the Laundry.



Pack Store. This Store, consisted of two thirds of a hut and Armory, 25 ft by 10 ft, both the large all round and Centre double rack for storage of clothing. It was also too small for the instruments, the work in this Section which necessitated the Counting Registration disinfection Care & Cleaning of Instruments 500 to 600 patients. Kits & Clothing which were always very dirty and frequently infected with bacteria. Beside the cleaning and oiling of a similar number of rifles and Indian arms, logs of small dent, the latter was performed by two Regimental Orderlies generally General's camp patients. The Kit of all men admitted with Intermittent Fever and other Contagious & infectious diseases were disinfected in Thresh's apparatus before being put into Store.

Transport.

Realt Photo gives a view of transport lines and kraals.

Owing to the occasional extreme severity of the weather during the winter months and the horses being without shelter I had these kraals erected in March 1902. Two for transport horses and one for Medical Officer and Nursing Sisters horses and one for Cattle. The walls 6 feet high were built of stone, their inside measurements being 60 feet by 25 ft. A harness room was also constructed alongside. 20 horses were sufficient for the transport work during any term of office and for six ambulances and two Cape carts were also used for transport of sick.





Water Supply

In 1900 and early months of 1901 the water had to be carted about one mile from a spring supply situated near the Demount Camp at the west side of the Railway line, this was most inconvenient and a great labor. Colonel W. B. Allin on account of this great inconvenience and difficulties, relative thereto, sank a shaft about 150 yards to the east of the Hospital and struck a plentiful supply of pure water. This source was continued until April 1902 when the Royal Engineers at Mying investigation sank a tube about 50 yards from a bore well (with a diamond drill) and found water over which were raised four large water tanks elevated on stone masonry to allow of fall for hospital supply through pipes which were then also laid into the Dispensary. These tanks were filled by a Kynle engine pump. A sufficient supply was thus obtained. But to Col. Allin to due the credit of having first discovered the water which previously was believed not to have existed the tanks were roofed in to preserve the purity of the supply.









Medical Officers.

Photo gives a group of Medical Officers
serving in the hospital May 1902.

Lt Col. Reade, & Lieut. Reed, Capt. Donaldson -
Lt. Webb, Wilson & Wheeler. Civil Eng. Lombard
& Hiram.

Officers Mess

This photo gives a view of the Medical Officer
Camp and Mess House (with quarters)
a portion of the mess house was constructed
by Col. Allen in 1901. The eight sleeping
rooms, kitchen & other offices were built
by myself in May 1902.

Nursing Sisters.

Photo shows a group of Sisters doing
duty in hospital May 1902.

The Nursing Sisters attached to
the hospital, numbered at various
times about 40. When I took over
charge 16 A. U. S. R. Sisters were doing
duty under a Superintendent Miss
J. Brown Army Nursing Service,
until she left in March 1902 to take
the appointment of Matron in Chief
of the A. U. S. Service. She performed
her duties in a very capable manner.
She was succeeded by Acting Super-
intendent Sister R. E. Kards who was
young and never had any experience
in the duties of Superintendent
being only a few months in the Army









Nursing Service.

A well trained Nursing District is capable of attending to ordinary Medical or Surgical Cases, with the assistance of a trained Orderly, one for every 15 Cases, in Enteric Fever Cases they could attend satisfactorily more than 21 Cases if they did their scouring, washing and other Nursing details in severe Cases themselves which certainly is part of their duty. They would be made to my experience (two-and-a-half years as Plur. of General Hospitals) to perform all Nursing duties in military hospitals without the assistance of trained orderlies.

These Nursing Sisters during the Campaign, the whole Hospital staff and patients owe a deep debt of gratitude, they were cultivating in their work constant in their attention, firm though patient in their handling of the sick, and many were the expressions of thankfulness I have heard from sufferers and convalescent patients for their kind labors on their behalf.

They were certainly a great boon in military hospitals. With this I may say their first Campaign





The photograph represents a group of
Cooper and his Company, which
of the hospital who worked in it during
its latter months, taken all around
they performed their duties in a satis-
factory manner.

The photograph shows the hospital Orderlies
of the 1st and 2nd Regiments.
The former during the last six months
were numerically weak, numbering
only 76, the Regimental Orderlies
attached varied between 30 & 70 in
number as the sick rate increased
or diminished, all performed
their various duties in a satisfac-
tory manner, the training in
hospital duties of the Regimental
men was a source of much trouble
and confusion, as their Com-
manding officers were constantly
applying for their return to their
units, all the Orderlies, with
few exceptions gave me satisfaction
by the performance of their nume-
rous duties, also the occurrence
of crime was comparatively
rare amongst them.





H. T. Hobbs

51



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No 12 General Hospital

Table showing admissions & deaths of Natives for the years
1900 - 1901 + 1902

Months	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total
January		32	12	44				
February		16	6	22		1		1
March		8	12	20			1	1
April		10	15	25		2		2
May	3	29	5	37		1		1
June	14	31		45	2			2
July	22	3		25		1		1
August	11	27		38		3		3
September	8	10		18				
October	20	22		42		2		2
November	22	7		29		2		2
December	16	16		32		3		3
Total	116	211	50	377	2	15		18.

Native Hospital -

The Native Hospital situated at the East of the Entree Division. Consisted of three wards, one for Surgical, one for Medical and one for Enteric Fever Cases. During the Enteric Season, they had to be extended to 5. Each Ward was equipped with 8 beds and bedding complete except Sheets, and Coverlet-pieces, which the natives refused to use on account of their cold feeling on their skin -

The following table shows the number treated and deaths

	Medical	Surgical	Enteric	Total.
Admissions	183	75	118	376
Deaths	5	2	11	18
Percentage of Mortality	2.73	2.66	9.32	4.77

The made very good patients and readily acquiesced in European methods of treatment both Medical & Surgical. The mortality in Enteric Fever which was frequently complicated with Malaria was too high, taking into consideration that natives do not bear the severe strain of the fever as well as Whites do -





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Division
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No 12 General Hospital

Table showing Admissions & Deaths for Surgical Diseases
for the years 1900, 1901, & 1902.

Months	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total
January		82	36	118		4		4
February		91	12	103				
March		101	134	235		3	1	4
April		47	152	199				
May	38	90	30	158		2		2
June	67	56		123	1	1		2
July	130	26		156	1	1		2
August	101	40		101	1	1		2
September	33	52		85		2		2
October	70	48		118				
November	40	41		140		3		3
December	59	50		90		3		3
Total	538	724	364	1626	3	20	1	24

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Report on Surgical Division.

General
Remarks.

The Surgical Division faces East & West and is composed of 33 Marquees arranged in Rows with wide paths between them. They were of the ordinary British pattern and were suitable for the requirements. Some had wooden floors and some tarpaulins. Each was equipped with tin & spring bedstead and horsehair beds, with brown blankets and white counterpanes, all the other equipment was in accordance with regulation.

The Division was situated along side the Medical Division about 50 Yards separating them in which were placed the Nursing Sisters Sculleries, Medical Officer and Boardmasters Offices, the operating theatre and X Ray Room being in the Centre of the Division (please see Ground plan). Special Marquees were set apart for treatment of venereal, ophthalmic diseases, and prisoners of war.

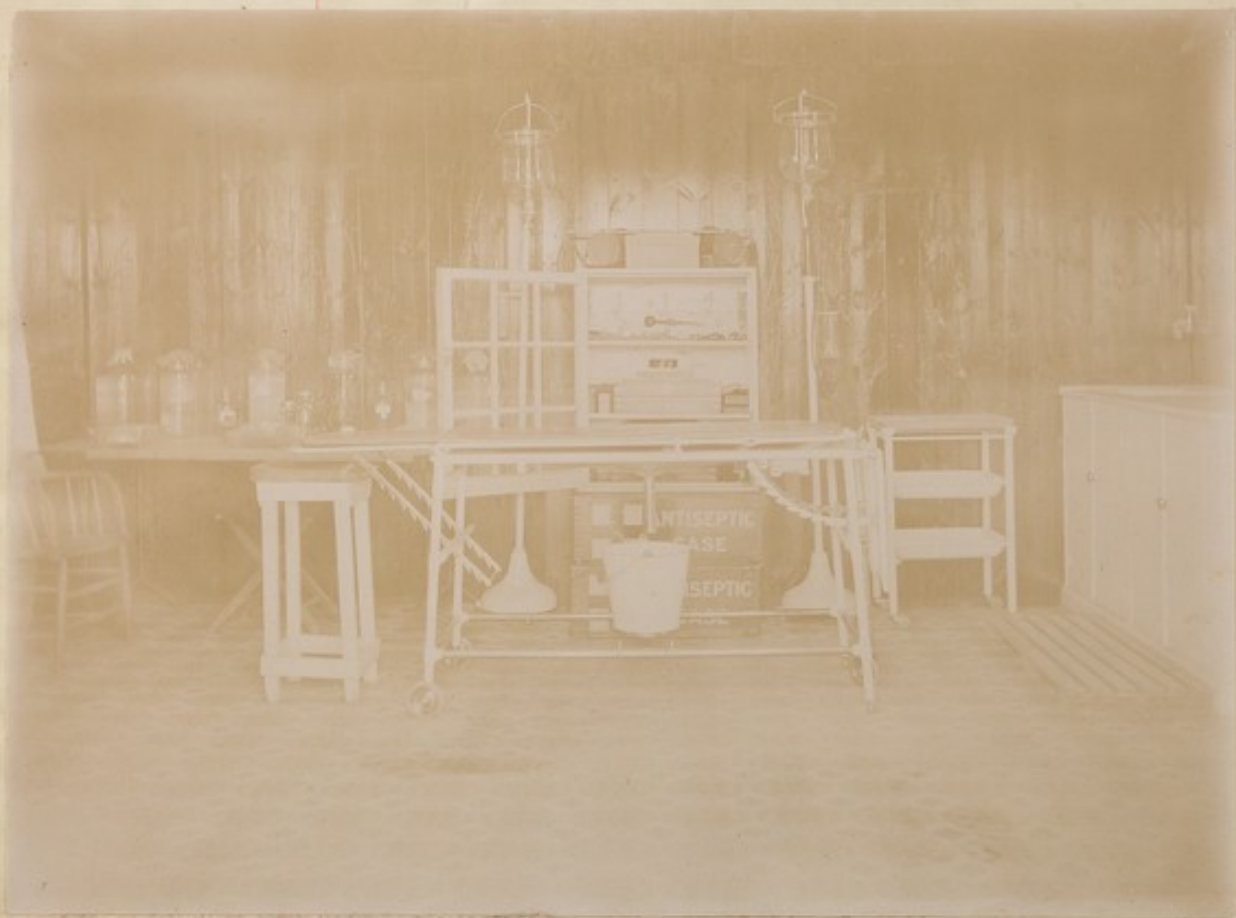
At Col Longheed's full & Comprehensive Report on the work done when Medical Officer in Charge is appended, no records of previous work done in this Division appears in his office.

Also a photograph of the Division done after a severe snow storm which happened in June 1902

Statistical table attached of all Cases treated in Division, also of Gun Shot wounds.



View of Division



Robertson, George, 61
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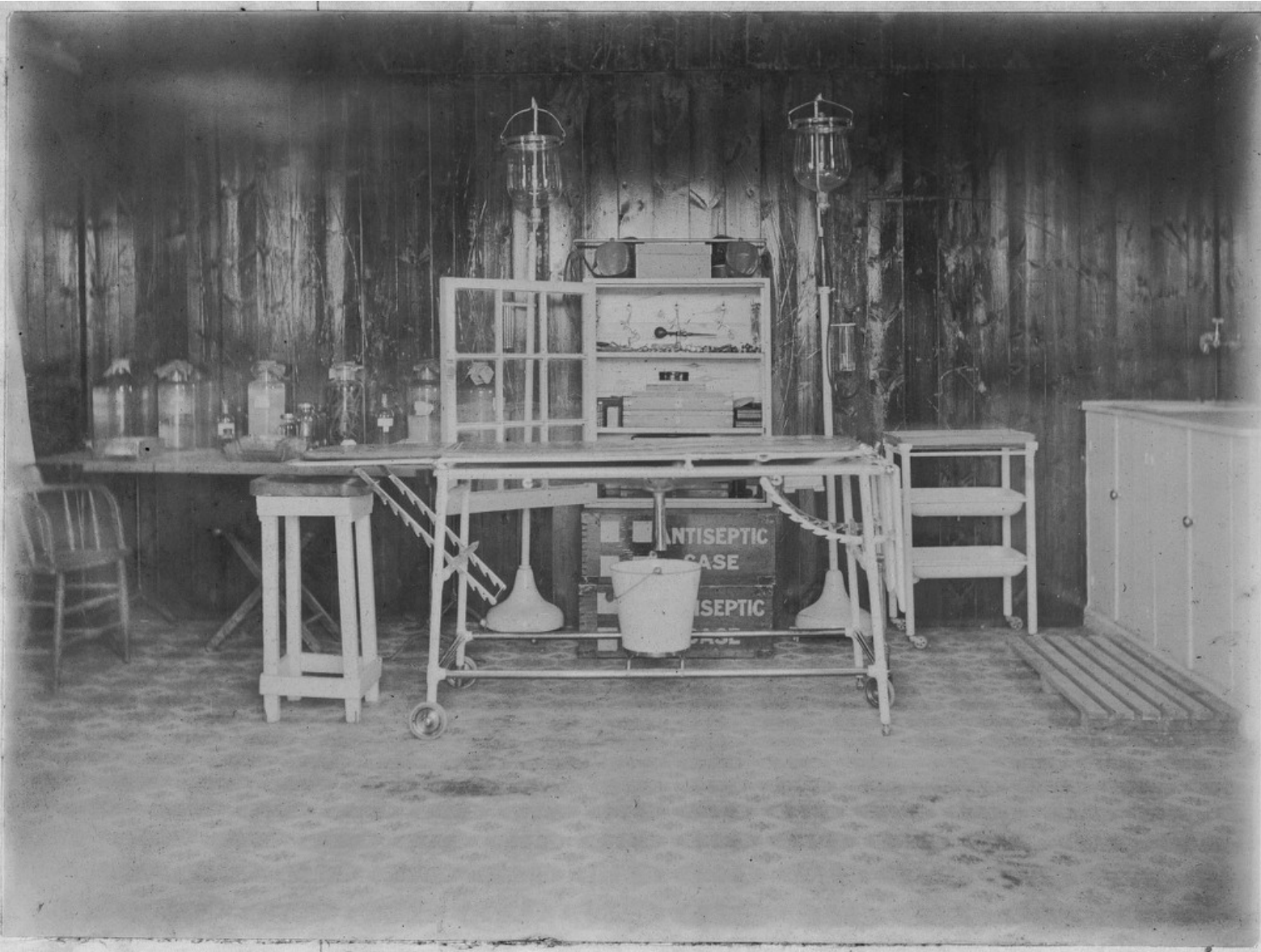
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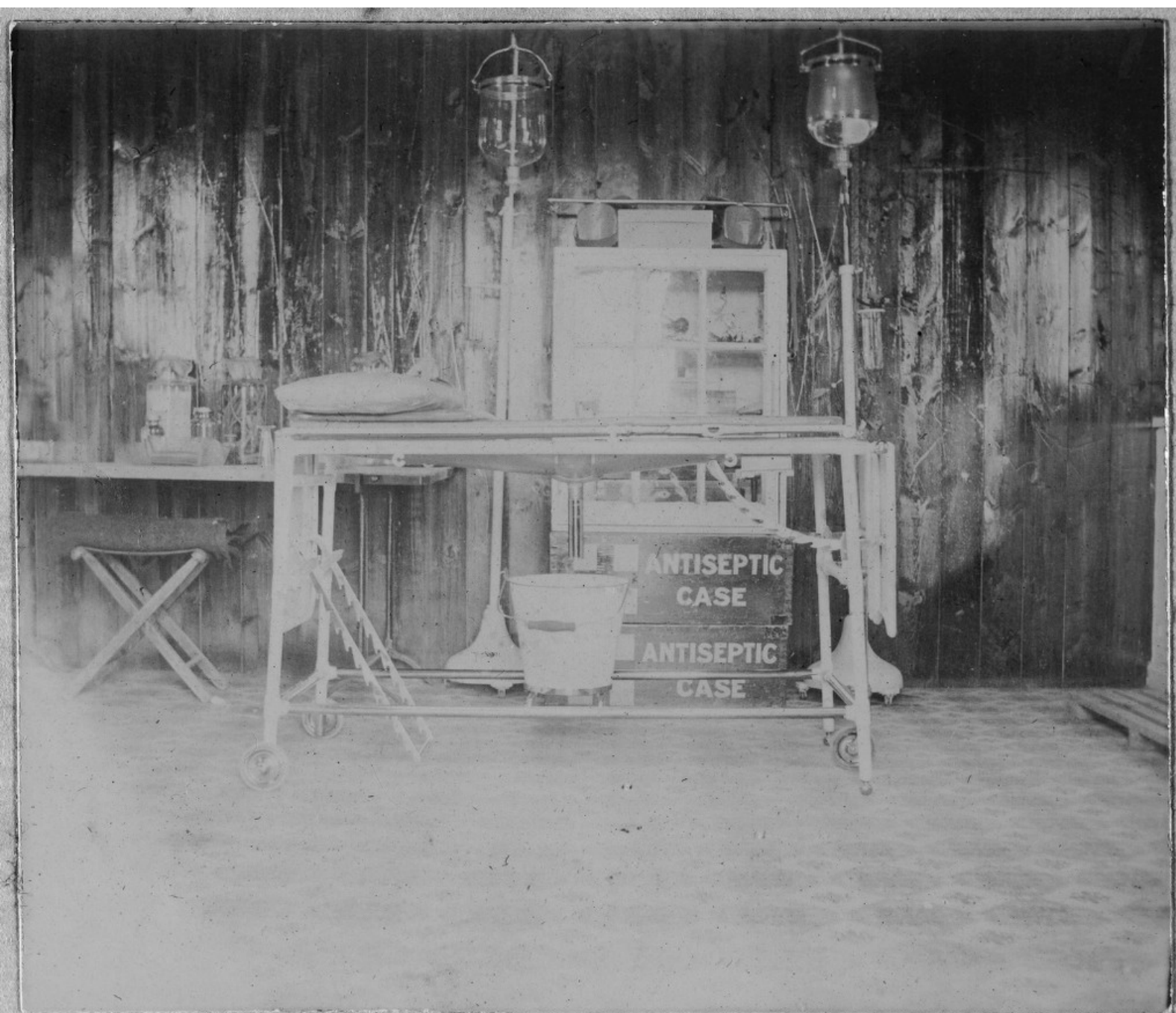
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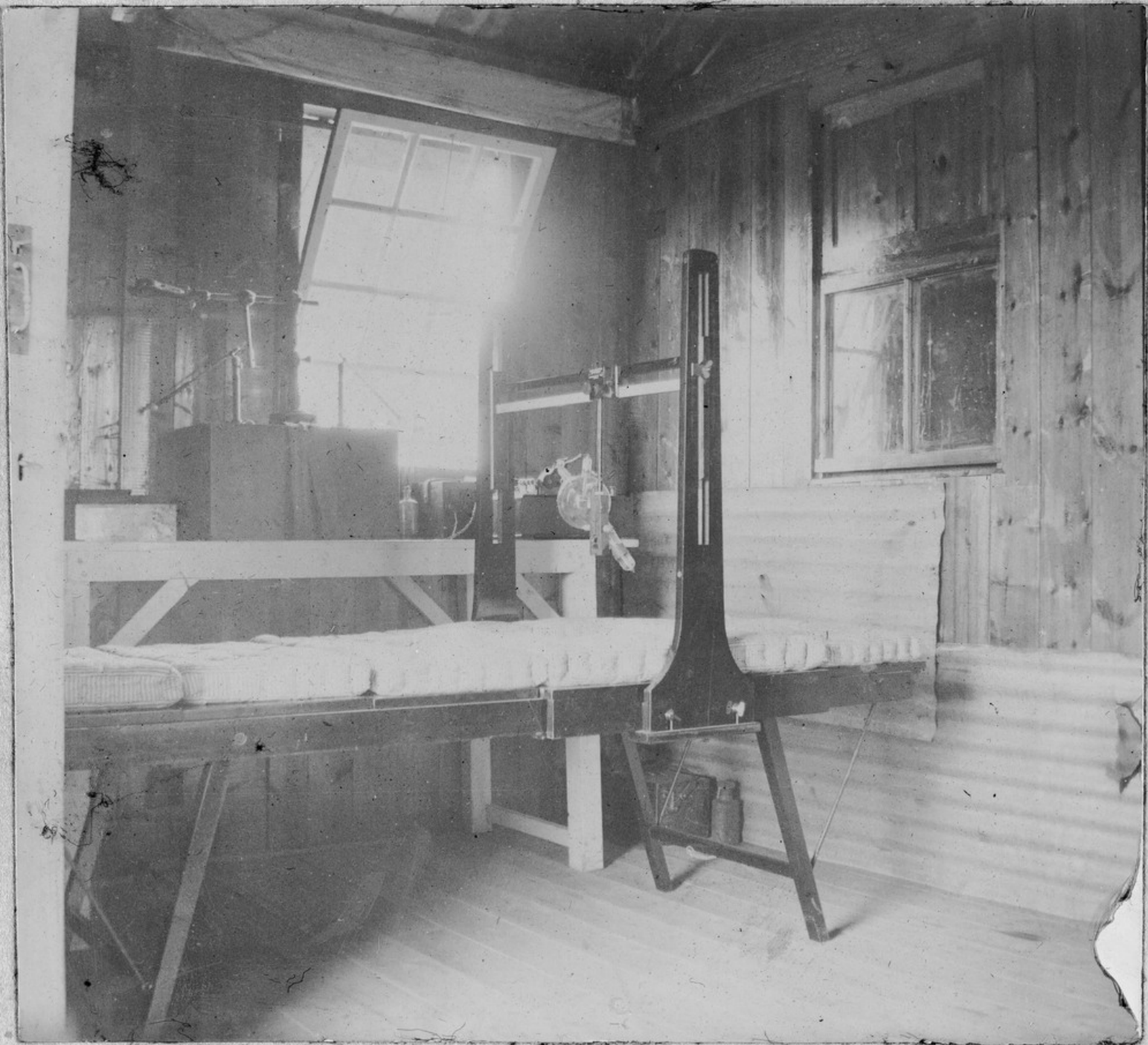
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No 12 General Hospital

Table showing admissions + deaths for Gunshot Wounds
for years 1900, 1901 + 1902.

Month	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total
January		7	11	18			1	1
February		23	2	25		1		1
March		12	19	31				
April		7	12	19				
May	21	34	5	60		3		3
June	30	22		52	1			1
July	14	18		32				
August	16	34		50		2		2
September	36	27		63		2		2
October	30	12		42		1		1
November	47	11		58	2	3		5
December	33	12		45		1		1
Total	227	219	49	495	3	13	1	17

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Report on Surgical Division by
Lt Col Longhead. C.M.G.

Gunshot injuries Head

The ^{head} injuries sustained in this case amounted to not more than 18. Some of them were very extensive and have damaged and brain laceration. Hyperfracturing fractures through the base of the skull the entrance opening in the skull small and with little stellate fracturing around it, small bone debris was driven into the brain tissue. No fragments in small pieces but quite amorphous and capsulated being removed.

- The exit aperture was large, a considerable area of the vault being blown out before the bullet and many radiating fractures present but some cases overlapping.
- In further wounds there was usually depression of the inner table or extensive fracturing of it and specula driven into the dura mater.

Flaming wounds in every case sustained were followed by symptoms of depression. And in two cases where fracture existed there was hemorrhage beneath the dura membrane very extensive all had Jacksonian epilepsy. As regards treatment trephining was required in nearly every case of G.S. of skull the entrance opening closed. Certainly be trephined and the bone debris removed. With exit wounds elevation and removal of loose pieces will often suffice, but if suspicion of

depression or the pressure of a clot which the
 cut wound should be trephined and the
 parts fully exposed and explored. His pupils
 corroborate the idea of a rupture in such case
 and if the wound is septic Cerebral abscess is almost
 certain to ensue. There have been cases in which there was
 extensive damage to the Rolandia area, both paralytic
 of the corresponding limbs. Where after the removal
 of the pieces of bone & clot, function was almost
 completely restored. Cases accompanied with loss
 of cerebrospinal fluid are always grave, often fatal
 and I am unaware of any means of checking such flow.
 Drainage is very important in head injuries after
 trephining. I made it a rule to put in a drain in
 almost every case, which if no longer required could
 be withdrawn in 48 hours and discharged little with
 the scalp healing. In 10 cases did I return the disc
 of bone removed by trephining, because as a rule the
 disc was never a complete one and often it was found
 necessary to enlarge the opening with a Hoffman
 piece for further exploration. In one case I met
 with which had been so treated a sinus remained
 and I subsequently had to remove by a second
 operation the remnant of the disc which had become
 of the peristoma is reflected with the scalp in the flap
 incision and subsequently when closing the wound
 is fairly well brought together, but some always remain
 in the opening and there is a further pulsation or
 tendency to protrusion after a time, as regards
 flaps of scalp they should be large and sometimes
 with the broad base downwards.
 Many operations I performed with a + shaped
 incision the long limb being vertical, in this form
 the vessels are divided and there will be
 much less trouble from hemorrhage.
 Fractures involving the frontal sinuses are
 the most perilous and they are explained by the free
 communication with the nasal passages and
 liability to infection. In dealing with all head

superior thorough cleansing of scalp and wound should always precede operative interference. Where the dura has been torn and the scalp wound septic cerebral abscess is liable to ensue.

For the condition nothing should be done but open up anew and explore both trocars & cannula in many directions and to a good depth, if bit off it should be drained only, not irrigated up, and if favourable progress ensues the tube should be gradually shortened. In this case have seen several meningitis following in cases from which bone and clot had been thoroughly removed. In case of subdural clot, where the dura had not been originally torn, but where it had to be incised in a stellate manner to allow removal of the clot. I always incised the edges by fine sutures of silk leaving a small opening in the centre for a drainage tube to be put against, this is important to prevent bulging subsequently. Where the dura is extensively damaged or torn away to ensure relief of the compression of the pericranium attached to the flap and the speedy union of the scalp incision in addition to a broad pressure pad on the outside of the dressing. The amount of drainage & bone in these injuries depends very much on the size and composition of the bullet and its velocity at the time of impact. In the case of Meuser and Lee-Metford bullets with nickel case at short ranges the projectile usually did little damage more than tunnelling, extreme fragmenting being rare. But in the case of larger leaden bullets viz sporting Newbore, there was always very extensive

passing off by the entrance and exit of the
with much disintegration of the brain substance
head injuries are very satisfactory to deal with
and the astonishing results which follow suc-
cessful operation gratifying to the surgeon.

G. S. Chest Injuries

Many chest wounds were usually perforating
ones, the bullet generally entered and left the
cavity by an intercostal space, if the bullet
passed through a rib, it was always by a tunnel
where the angle of impact was of an oblique appro-
aching a right angle. I have observed with
a case where an intercostal artery required
ligaturing. Slight hemorrhage into the pleural
cavity was the rule. Extensive hemorrhage was
except of injury and lasting only a short time
only one case both air and blood came under
notice, the damage to lung tissue was as a
rule only slight fine crepitation present for about
a week and then disappearing, no abscess of
lung followed any wound.

The blood effused into pleural cavity as a rule
in most cases underwent absorption, when
it was very extensive it had to be aspirated
Empyema ensued in only about 3 cases
and in these resection of rib and drainage was
carried out, they all recovered.

No case of injured pericardium was observed
such cases presumably dying before admission
into hospital.

No case of chest wound with injury of the
spine the passage of the bullet was in a vertical
direction, fracturing several of the ribs exten-
sively and driving piece of bone into the lungs
wounds of chest inflicted by soft pellets were
observed. The track of bullet in chest wound seldom
disrupted. In two cases of extensive hemorrhage
where aspiration had to be performed for emphysema

Due to pressure on lung, the cavity contained large soft clots below over the diaphragm and liquid blood and serum above. Reaccumulation of fluid after aspiration was unusual. In cases where the rib had been resected for blood clot or empyema, it is not a desirable to wash out the cavity. Drainage is quite sufficient. In one case where irrigation was carried out very alarming symptoms came on although there was no obstruction to the outflow of the irritating fluid.

G. S. Abdominal Injuries.

Most abdominal wounds were perforating ones, the exit was often as small as the entrance one. A good many recovered without any special symptoms or operative treatment although from the direction of the wound there must have been injury of some part of the gut. In some cases ^{where symptoms arose} indicating wound of the Foreal Mesenteria was not present. Most Cases the Wounds were several days injured when seen and were then either in a way to recovery without operation or where the damage was extensive in a condition of advanced peritonitis where operative treatment was almost hopeless and if carried out was very successful. In some of the Cases operated on the wounds of the Foreal were extensive and oval in shape with rough, broken edges. Intensive extravasation of contents of several peritonitis present. In one Case there was injury to large mesenteric vessels and much blood clot present in the peritoneal cavity. Two Cases where the bullet passed through the liver recovered in both there a tube was placed in the right

openings for drainage and the tumor healed without trouble. In both adhesions must have formed at an early date between the peritoneum covering of the organ and the parietal peritoneum shutting off the tract from the general peritoneal cavity.

Early laparotomy in abdominal injuries has not had a fair chance in this war. As most of the wounded have been far away from a general hospital when injured and with poor equipment and dirty water, often scarce the opening of the abdomen and closing of wounds of the bowel. is not only inadvisable but almost sure to be followed by septic peritonitis. The man who has been shot through the abdomen in the field is best left alone, at rest and with little food for several days, if he is not in close proximity to a general hospital.

Laparotomy performed when general peritonitis is established and enterostasis present has not been successful in my hands.

I have seen only 9 S. & T. of the abdomen where the kidneys have been injured as evidenced by haematuria. They all recovered without interference. The case where the spleen was palpated up and had bled freely into the abdominal cavity died. Not from his injury alone. A very large number of perforating abdominal wounds do recover without any operative interference.

G. S. injuries of spine

Where the cord has been rendered functionless at the seat of injury are nearly always fatal in the course of a month or so. I know of only one case in this war where life has been prolonged up to the present date (End of hostilities) in which the cord was damaged to such an extent that the patient was paralyzed below the seat of injury. This man was wounded at Colenso in 1899. Where complete paraplegia

Had been established, in all other
 cases they ended fatally.
 A goodly number of cases where the
 bullet has passed in close proximity
 of the Cord and where the lesion
 presumably has been. Pressure from
 hemorrhage, have made complete
 recovery. In many cases examined
 after death have shown a
 condition that might have been
 remedied by operation. The hearse
 and Lee-Post mort bullets in passing
 through bones of a cancellous nature
 nearly always tunnel them or
 if there be fracturing it is very slight
 and with little displacement. The
 laminae of vertebrae have frequently
 been tunneled. The Cord is disinte-
 grated by the passage of a bullet
 through or over it, that it is rendered
 useless as a conducting medium.
 In the early stages the injured spot
 is occupied by slight hemorrhage
 and there is congestion of the
 vessels around it. Later it is
 in a 'custard condition' and still
 later this is absorbed little
 remains but the meninges.
 There does not appear to be any
 tendency to repair. No such lesion
 in the shape of bed sores come on
 early. Pruritus is the rule in the
 early stage but soon passes off.
 The urinary tract becomes septic
 at an early date. Fortunately these
 cases suffer little pain if the
 level of lesion is high up. Nothing
 can do anything for them.

J. S. Wounds, Extremities

wounds of the lower extremities were far more common than wounds of the upper. The entrance & exit wound were usually small and circular if the bullet passed through fleshy parts only and impinged at right angles to the surfaces. In the case of deformed and soft bodied bullet the entrance was larger than that made by the plain bullet, and the exit varied considerably, the rule being to judge it very large and irregular. When the soft bodied bullet separated into many pieces in the fleshy parts and the pieces made separate exit wounds or some of them lodged. Many of the exit wounds made in this manner were of enormous size even where no bone had been damaged. Sometimes soft part were torn out through the skin in all directions and projecting inches above the surface. When near the bullet's impinge on cancellous bone tissue the rule has been for tunnelling to take place but in some instances complete fracturing occurred with little comminution. Some debris was nearly always found in tunnelling.

When the same soft bullet met compact bone tissue such as the shafts of humerus or femur extensive fracturing & comminution was the rule. On the side of the shaft just first struck by the bullet the comminuted fragments were nearly always smaller and less displaced than on the side on which the bullet made exit. Where there was usually less than a reported splinter representing sometimes half the diameter of the shaft, and up to three

or by inches in length, occasionally
 the fractured os transverse without
 any long fragments being found
 recent side, but with much com-
 muniton of the the fractured
 ends. In only one case did any
 of the fragments present a telescoped
 appearance corresponding to the
 back of the bullet. In two cases, which
 have been observed that bone
 was blown out through an exit
 wound and these two were at
 very short range the missile
 the rifle almost entering against
 the rib, in most cases where the
 communiton has been extensive
 the exit wound were comparatively
 small, often less than twice
 the size of the entrance one.
 In one case where death ensued
 from tetanus and an opportunity
 was afforded for post mortem examination
 a smooth bullet had entered
 the upper & posterior part of the
 great trochanter, traversing it
 part downwards with the
 medullary canal in a diagonal
 direction and then displaced
 a long broad fragment of compact
 tissue from the upper & upper
 part of the shaft. In a few cases
 in which one found the bullet
 subsequently it lay unpeppered
 in the muscle of the opposite thigh
 it was found to be either completely
 broken up or the right half
 separated from the leaden core &
 both much distorted. It was im-
 possible to distinguish wounds made

by the manner from those made by the Lee bullet
 shells. In a case of a Lee bullet which
 ricocheted off the metal wheel of a fire
 carriage and then passing through the
 fleshy part of the thigh of an officer standing
 at bayards from the wheel and lodging
 in his trousers, inflicted a series of
 rather deep lacerations in the skin wherever
 it touched and felt quite hot when the
 officer removed it. The bullet which
 came was only slightly flattened towards
 its point. In cases of wounds of the
 extremities with bone damage or lodgment
 of the bullet the rays were invaluable in
 ascertaining the amount of damage
 done & illustrating the effects of treatment.
 Healed wounds with small entrance and
 exit openings were then accepted and
 healed up under ~~collodion~~ ^{collodion}. Those that
 became infected heavily always required the
 openings to be enlarged and free drainage
 established. Large & highly infected wounds
 often required the constant warm boracic
 bath. Sometimes for days before they cleaned
 up. Ordinary wounds did well under either
 iodine or cyanide of potassium dressings, where there
 was extensive cutaneous destruction. The same
 method of skin grafting was carried out with excellent
 results as soon as the parts were suitable for it.
 It is the best means of preventing Cicatricial
 contraction especially where the wound is
 near or over a large joint.

Wounds through cancellous bone require in
 most cases to be scraped with a scalpel
 spoon and the removal of all debris before healing
 could take place.

In dealing with G.S. fractures in compact bone
 tissue the rule was, if the wounds were aseptic
 and the patient had no rise of temperature

to Clean & dress the wounds - And not
interfere with the Seal of Fracture by Operative
Measures. If the wounds were infected
which they generally were, it was
most important that all comminuted
fragments should be removed as
early as possible by operation and
any sharp projecting points cut
off either by wire saw or cutting
bone forceps. If this course
were not adopted at once, suppuration
would continue & increase ^{until} the
pieces were removed.

In many cases where long points
were not removed at first operation
it was found that they subsequently
increased and separated and
then became enclosed in the new
bone thus preventing the
wounds from healing & leading
discharging sinuses.

It is by no means easy to determine
pressure in the fractured ends
of long bones at the time of operation
with the finger. A rupture I have
found as a rule & ascertain whether
the ends are secured and if found
to be so, the pieces should in every case
be removed no matter how large they
be. On many occasions, we have been
tempted in dealing with these injuries
to leave large pieces which were not
very loose & were covered with periosteum
with the hope that they would become
and become incorporated with the
new Callus. In all these cases
always proved vain. The pieces ^{however}
often had to be removed subsequently
by another operation.

I always used an extension apparatus
 with pulleys & weights & fractured thigh
 bones with sand bags on each side of the
 limb for some considerable distance above
 and below the seat of fracture. When there was
 a tendency to eversion of the foot, a usual occur-
 -rence these sand bags were made long enough
 to reach below the foot and they always achieved
 the object aimed at. One fallacy presented
 in such cases 'viz' where sufficient weight
 was put on so that measurement gave the
 shortening any X-ray picture taken
 would often show overriding of the fragments;
 this apparent discrepancy was accounted
 for by the weights stretching the ligaments
 of the knee joint, more than the shortening
 caused by the overriding of the fragments;
 the X-ray picture including the knee joint
 proved this by showing a considerable interval
 between the lower part of the condyles
 and the upper articular surface of the tibia.
 As regards subsequent length of limb after
 P. S. fracture, where supuration did not occur
 and where no long had been removed by
 operation very little shortening was noticed
 in the majority of cases - sometimes less than
 $\frac{1}{2}$ inch, but I should say that in every
 case some was present, with an oblique
 fracture malunion was suspected. Absolute
 adjustment is nearly impossible.
 Towards the end of this war we always had several
 Bump's all broken pieces of bone in deep fracture
 of the femur and chips of the cutting bone
 or chips of the projecting points, or to save them
 off with files were saw, till I found one was
 reached at full thickness of shaft, this bone
 was found in every case to be the most satisfactory
 even if a distinct gap were left & always
 filled up with new bone, and the limb could

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be gradually stretched by increasing the weights. In no case did osteomyelitis ensue where this way of drainage tube showed no relief long in the site of fracture and certainly not after Henry Callow has commenced the therapeutic. As they cause tumors of the joint. When all loose pieces of bone are removed from the site of fracture and the part well irrigated at the time of operation and daily after subsequent dressing. Exudation soon ceases. False joints resulting were rare and I should say in every case I saw the direct result of bad surgery.

I had success in other cases with the experience gained in the one dealing with G.S. Septic fracture of the femur I should make it the rule to treat all cases that were suitable, that is in all cases where the injury was sufficiently far away from the knee & hip joints to free sufficient space for infection. In dealing with G.S. fracture of the humerus, extension cannot be carried out nor is it necessary. When the patient can sit up the arm being in long side splints the weight of the forearm gives the necessary extension when the wrist only is kept in a sling. Beside a slight shortening of the arm is little disadvantage of the ordinary way.

G.S. fracture of the leg and forearm

Wrenthell difficulty where only metacarpals
 damaged - the sound one acts as a splint
 during repair and prevents deformity.
 I have seen many cases where either which
 one had been blown away or where it
 was removed by operation and the
 gap has always filled up. In one case
 where about $\frac{1}{2}$ inches of the lower end
 of the radius was blown away with some
 of the carpal bones, a good deal of deformity
 resulted; the radial side of the hand was
 drawn up to fill the gap, but the hand
 was a very useful one. Where both bones
 were damaged and the wounds septic
 only the loose separated pieces should
 be removed at an early date. The parts
 should be cleaned and the limb rendered
 immovable by splints & splints; leaving the rest
 of injury easy access for dressing. In
 every case I saw of this nature uncomplicated
 with vascular damage, union occurred in one
 or both the bones at an early date. When
 union had been established, there was no
 difficulty in removing pieces of bone retained
 in the web of the hand. Where I saw wounds
 of the latter sort were complicated with injury
 of the main vessels of the forearm at the same
 time septic the case usually resulted in
 amputation above the elbow. In most of these
 such cases came under my care and in
 all secondary haemorrhage followed. The
 injury in each case was in the upper third
 of the leg. I made an endeavour to secure the
 vessels, but owing to their deep position could
 not place a ligature upon them. Even if
 they could be secured in a septic wound
 I doubt the value of the procedure - Gangrene
 would in all probably ensue and amputa-
 -tion would finally have to be resorted to.

stating when the patient predicted
would be much less favorable than
soon after the injury
knowing case I said early in the war
the bullet escaped detection at
the time of removal of fragments
of bone and subsequently became
shut up in the callus as shown
by X Rays - No idea one was
made to remove if the wound
having healed up -

Pieces of bullets imbedded in
cancellous tissue were fairly
common - Inflammation always
continued till they were removed
In one case a mauler bullet
remained imbedded in the
lower end of the tibia above
the ankle joint. The wound
never suppurated, and healed
in the ordinary manner. It
caused the patient no trouble
at the time, and he did not wish
to have it removed -

Bullets should always be removed
where practicable. When a
patient recovers from his injury
having a retained bullet, and returns
to duty the bullet is always a source
of trouble to him, mental & physical
It has been found where bullets
remain in a soft part for a
time that an adventitious capsule
forms around them and a certain
amount of broken down blood clot
is contained within the capsule
and is liable to infection. I met
with one case where suppuration
occurred around a retained bullet

Some months after the injury, and the bullet had to be removed. Fragments of bullets especially when of irregular shape or with sharp points always give rise to pain and movement, if embedded in muscular tissue and should be removed. It is often impossible to put the all pieces of lead in a part even when they show up well in an X Ray picture. In cases where a portion of the bone has been blown away with its periosteum. Dr. F. J. F. extensively recommended that when the fragments are removed, a flap of muscle or more is left, if a dressing is allowed the wound to heal soundly and to wait sufficient time before repair is attempted. Where there is no attempt at repair the fractured ends should be resected, and a corresponding length removed from the sound bone. Both ends should then be wired through separate incisions and the limb rendered immovable.

J. S. Wounds. Joints.

Direct wounds of joints were rather rare. In a great number of suppurations occurred but I saw many cases where a clean bullet passed through a joint and the wound healed in a few days without any suppuration and with no permanent damage to the articulation. Joints were often damaged indirectly by a bullet fracturing the bone above or below the articulation and the fracture extending into the joint. In all such cases that I saw suppuration occurred and the joint had to be fully opened by the incision, irrigated and drained. In the case of knee joints a vertical incision nearly side of, and slightly above the patella

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Dividing the joint capsule and of
sufficient size to allow the passage
of two large parallel drainage
tubes from one opening to the other
was made. If these Cases were then
treated early and daily irrigation
carried out, Inflammation soon
ceased and a fairly movable
joint resulted.

In many Cases where there
was a suppurating loose head
about the articulation became
infected sooner or later - and
had to be dealt with as above
described. In other Cases where
bone in the proximity of a
joint usually on its distal side
had to be scraped suppuration of
the joint exposed. In prolonged suppu-
ration of the knee joint. Relaxation
of the internal lateral ligament
occurs and marked genu valgum
is the result. Several Cases of
wounds of the elbow joint were
observed. Some of them did not
suppurate but others did and in
these latter Cases the joint was
opened by an incision on the
inner side of the brachial tendon, Wrist
put and a tube passed through the
joint, Draining of the articular
cavity of these bones was the rule
without any actual fracturing.
In one Case the head of the radius
necrosed and had to be removed,
The after results of elbow injuries
were not good! limited movement
being the rule. I saw a few
Cases of wounds of the ankle joint

Where the main bullet must have passed through the articulation and the suppurative followed. The general office at present in India is a caeco point. In one case of a J. S. wound of the ankle with extensive damage of the lower end of the tibia and tarsal bones, with much suppuration - much necrosed bone had to be removed at different times, but the foot was saved to the patient with a stiff joint. Amputation of any limb had seldom to be resorted to for J. S. wounds, and the few cases in which it was necessary were complicated with extensive vascular damage at the seat of injury.

J. S. wounds. Major vessels.

J. S. wounds of the main arteries and veins of limbs were rather rare, and a great many of them were complicated with extensive bone damage. In dealing with the latter kind great difficulty was experienced in securing the vessels at the seat of injury, as all these wounds were deep. Amputation had to be performed had to be performed in all the cases. In the wrist, some were the wrist where there was no bone damage, but a aneurism was present either the circumscribed or diffuse form. The seat of lesion was cut down upon, and the vessel ligatured above and below the damaged spot. A good result followed in every case. In the wrist, extensive suppuration of a J. S. wound in the vicinity of a large artery in some cases led to secondary haemorrhage, the vessel becoming eroded; but whether its walls were originally damaged or not is

impossible to say. In such cases the vessel was secured in the wound by ligation and division between them if possible — otherwise it was ligatured above the wound.

G. S. wounds of heroes.

Many heroic injuries from G. S. wounds, were observed — the following were the principal ones.

1. Complete division.
2. Partial division or laceration.
3. Compression from catrerial band, proving round the trunk during the healing of septic wounds.
4. Various forms of necrosis, proper — namely from irritation of the trunk.

1. In complete division the prognosis was immediately receipt of injury and when the hero was left alone upon after the wound had healed there was found to be a keloidous condition of the distal part of the pyramus and an attenuation of the upper part of the distal end which was soft and pinkish in color. The treatment followed in all such cases was a removal of the keloidous part and a plastic operation after the manner of Hügel, but the results were not so good as yet elapsed since the final result of any of these cases.

2. In partial division there was always a considerable amount of

Cicatricial tissue binding the nerve to the surrounding parts. The treatment was to free the nerve completely and remove as much of the Scar tissue as possible with a curved scissors and to close the wound. These operations must be carried out with the utmost antiseptic precautions and primary union secured. If suppuration occurs in the operation wound more Cicatricial tissue will be formed and the result will be no better than if nothing had been done.

3. Where nerve trunk were surrounded with Cicatricial tissue an attenuation of the nerve was always found (essentially Calvaish).

The treatment followed was to slip the healthy nerve with blunt hooks above and below the constriction and carefully dissect off all the Scar tissue. In one humerus - spiral nerve which I treated as above the functions were restored almost completely after about 6 weeks. In the other sufficient time has elapsed for the restoration of functions.

4. In the forms of traumatic neuritis the with no operation was considered advisable. In no case was a nerve found imbedded in or pressed upon by Callus.

Wm G. P.
24-6-02

Prof J. F. Longhead
St Col Rame





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No 12 General Hospital

Table showing Admissions + Deaths for Medical diseases
for years 1900, 1901 + 1902

Months	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total
January		341	122	463		2		2
February		216	101	317				
March		278	117	395		1		1
April		140	122	262				
May	63	210	120	393			1	1
June	79	317		396	2			2
July	140	231		371		2		2
August	202	119		321	1			1
September	137	164		301	1	2		3
October	253	314		567				
November	312	273		585		1		1
December	328	194		522	1			1
Total	1514	2797	582	4893	5	8	1	14

No 12 General Hospital

Table showing Admissions and deaths of Officers for the years 1900, 1901 and 1902

Month	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total.
January		10	17	27		1	1	2
February		12	14	26		1	1	2
March		13	9	22				
April		22	3	25				
May	5	14	11	30	1			1
June	20	17		37				
July	10	14		24	2	1		3
August	14	7		21		1		1
September	3	10		13				
October	14	6		20		1		1
November	12	13		25				
December	23	7		30	1			1
Total	101	145	54	300	4	5	2	11.



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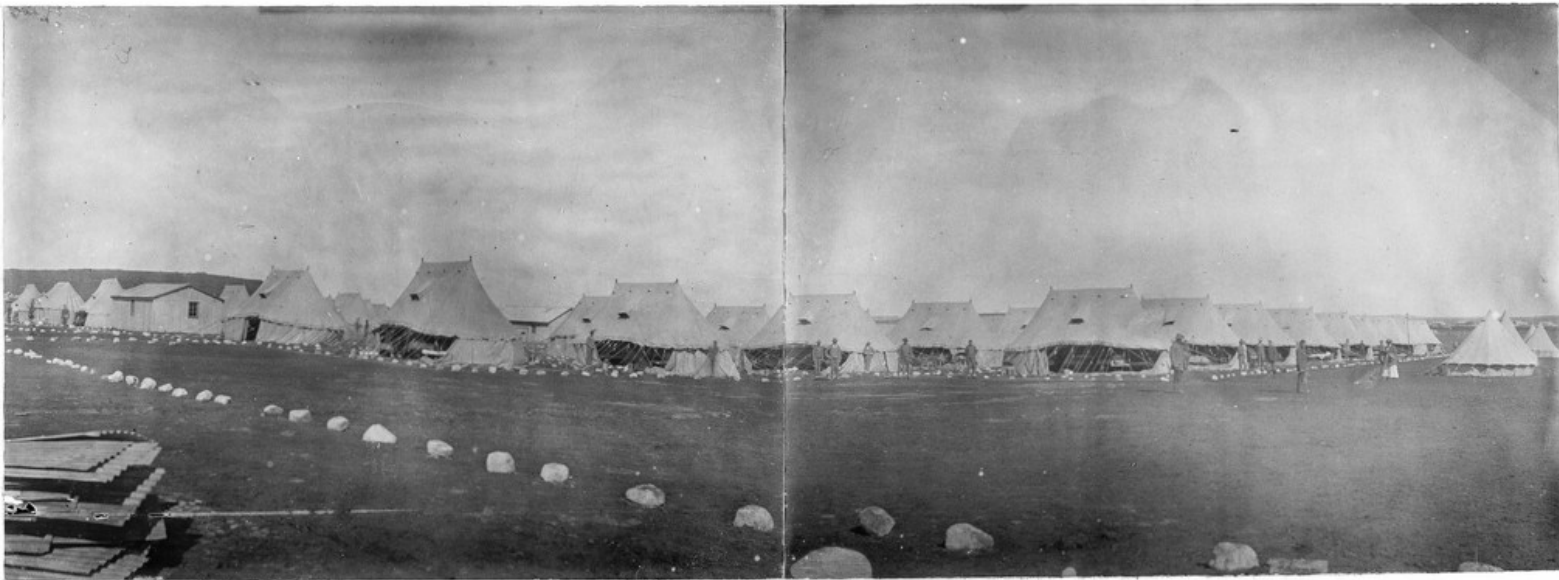
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Report on Medical Division

General Remarks.

The Medical Division faces East West and is composed of thirty-three Marquee each tent containing 6 beds. Hospital Marquees were the only type of tent used in this hospital for the treatment of the sick, and on the whole I think it a most admirable tent. The tortoise, so far as I know, has never been used in this hospital but, from what I saw elsewhere, I consider it inferior to both the Marquee and the Indian E.P. tent. The cubic space in it may be economized to a greater extent than in the other tents for a general hospital, which has remained standing for many months without rot. I am sure stand the wear and tear to which such tents are exposed. The stress of rain and rain runs well on a tent of a shape so well adapted to stand this strain. The equipment of the Medical Division of this hospital has been most complete and has left nothing to be desired. The nature of the tent floor has varied in some Marquees wooden boarding has been used in others tarpaulin has been laid down on the bare ground. Personally I prefer the tarpaulin flooring the surface is as readily cleaned as boarding, and there is no fear of it becoming a dirt trap, which so often happens in the case of boarding. Arguments for and against tarpaulin flooring really rest on the question of the surface drainage, if this is well carried I consider tarpaulin





unquestionably the best material, and in the hospital the Surface Drainage has been most admirably carried out. And in the worst days rain. I have never seen any tendency to a flooding of the tents.

Jaundice -

There were 200 admissions for this affection. At one period in the early part of this year the admissions were so numerous - that the Complaint assumed quite an epidemic form and the admissions under this heading formed a large percentage in the Medical division. As most of the admissions were transfers from other hospitals, it would be difficult to tabulate the districts from which the patients were drawn, and, in any case, the numbers would not be sufficient to furnish a reliable statistical table, but generally speaking, they came from the North of the Orange River Colony.

The Cause of this almost epidemic spread of Jaundice must be largely conjectured. And one was surprised to find that in the majority of the cases, there was a history that the Complaint came on 'While on trek'. This is difficult to explain, as a rule Jaundice being, associated with Sedentary habits.

The Complaint was undoubtedly of the inflammatory variety, that is to say connected with inflammation of the Duodenum, or lining membrane of the Duod.

The exciting Cause probably came under one of two heads. Dietetic or exposure



or perhaps a combination of both a prolonged course of meat and biscuit with little to vary it in the shape of fresh vegetables combined with exposure in the open, to varying degrees. Of temperature I could hardly account for the prevalence of the complaint - The weather at the time, when most of the admissions took place was hot, and dry at least in the daytime, but at times it was wet, dense and generally disagreeable.

It is probable that the fact of exposure which was incidental to the work on which the men were engaged, was almost certainly the most provocative cause, but at the same time it was distinctly seasonal, as all the cases came in with a rush, and during quite a limited time, and then suddenly dropped off. I do not know sufficient of the climatic peculiarities of this colony, to know if jaundice is prevalent at the time of the year when these admissions took place, amongst the civilian population, but from the few enquiries I have been able to make I am led to believe that this is so.

Treatment. - Rest in bed, liquid diet and evacuating the bowels are the first desiderata. A mixture of Chloride of Ammonium and Nit. Mur. Sialic acid oil has a pronounced influence in coaxing the liver back to its normal function. The inflammatory condition of the bile duct is no doubt primarily due to some preverted action of the liver and the Salt and Acid mixture certainly tends to antagonize this. Frequent the liver puncture by duodenal which empties the bile duct, such as the pill, Podophyllum &c is I am sure

As I found practice the liver in this stage of the affection being in a state that bile indifferently formed - and to free it at this stage would only aggravate condition of affairs -

Rest in bed in the early stage is absolutely essential though with a patient of active habits this is often difficult to attain, the prevalent idea that an attack of jaundice "can be walked off" in a day or two, still largely holding ground, but true physiological rest for the liver cannot, I am sure, be attained without rest in bed

Pneumonia

There were 52 admissions under this disease the type being the lobar form of pneumonia rather, and it is a little difficult to understand how the true disease can arise, looking at it from a purely infective point of view. It is now generally admitted that in every case that shows the physical signs of lobar pneumonia the *Micrococcus Lanceolatus*, or one of its allies will also be found in the bronchial secretion, and the question which arises in one's mind is, as to how this microbe can infect isolated cases. A patient for instance is admitted into hospital off a marching column for pneumonia, having lived for months past a healthy active life free from any infective house of locality, how is it possible that he can have become infected with one of these forms? I have treated only a few cases of pneumonia in this country, and I was never convinced that they were typical cases, and one had to means of investigation

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the specific Microbic Character of the affection, the cases were treated as if they were true Pneumonia, but certain characteristics were deficient. The expectoration was never ducty and occasionally only blood stained, the facies of the patients also was not typical, the physical signs were dulcified over affected points, but the crepitations were few, and no distinctive as one gets in the typical cases in Europe, and the course of disease was much more rapid, the physical signs clearing up very rapidly.

I am inclined to believe that the so called pneumonia that was admitted from marching troops were really acute congestions, originating from exposure to cold & wet. Even congestion of the lungs is now limited by many observers to a specific origin, and there is no doubt that it is a distinct pneumonia and they would in fact reject the possibility of pneumonia arising from mere exposure and all the latest investigations on the subject would tend to emphasize this view, there is then all the greater difficulty in marking down the origin of these cases. I have not seen a fatal case of so-called pneumonia arising from mere exposure and I am therefore inclined to think that the type is less severe than in Europe, or that the climate is more favorable for its treatment.

The treatment was much on the same lines as that adopted for the treatment of this affection at home, but I think there is no question that nothing like the same amount of stimulation is

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is necessary within Country, the
heart rarely showing any signs of
distress

Brachitis

There were 7 admissions under
this heading the majority of cases
being mild in type. The air of the upper
field is not conducive to rapid convalescence
within affection, and the cough remains
for a very long time. The patient frequently
requiring change of air to the sea side before
he can get rid of it.

Liver Abscess.

Liver abscess which arise within Country
appear to be more often multiple than
those in India and other tropical Countries.
The origin of liver abscess has always been
a fruitful source of discussion, the
discussion practically resolving itself
into the question as to whether it can arise
without dysentery or other lesion of the
bowel or whether it can arise without
this focus of infection. Personally I have
never known an abscess of the liver
develop either in this Country or in
the Tropics without a previous history
of dysentery. I believe an attack of
dysentery however slight may be the
origin of a liver abscess, in fact it is
the slight cases of dysentery that constitute
in my opinion the greatest danger to
liver infection. A man suffers from a
slight attack of dysentery with only
a little slime and mucus in his stool
of so slight a nature that he does not
even seek the services of a doctor, but
doctors himself no pain, chlorodyne

many of the other drugs which the general
 public have now become familiar with
 and the discharge is stopped, there is no
 reason to think that this slight attack
 of the disease may not have all the patho-
 logical significance of a more prolonged
 attack and that the *Amoeba coli* would
 have the same potency in one or the other.
 It has certainly appeared to me that liver
 abscesses arise much more frequently
 after those cases of dysentery, which have
 been improperly treated, either treated by
 the patient himself, or owing to the fact that
 he was far removed from skilled medical
 advice at the time of the attack.
 A patient who has had his dysentery
 treated in the approved method, with
 milk, opium, and so on, incurs in my opinion
 very little chance of infection in the liver.
 I cannot say whether this is my personal
 experience of liver abscess in this country
 with regard to the multiplying of the abscesses
 would be born out by statistics, but I am
 inclined to think that it will be.
 Why this should be so, is difficult to
 say - as dysentery in this country
 is certainly not the severe affection
 that it is in the tropics, and the
 remembrance of any severity is com-
 paratively rare - in fact many observers
 look on most of the cases met with
 out here, as attacks of Colitis, although
 with our slight knowledge of the bac-
 teriology of the disease it would be a
 bold man who would say that a Colitis
 might not also be infective, arguing
 however on purely objective grounds it
 would be much more reasonable to assume
 that infection of a less severe order would

arise from the slight attack of dysentery
as met with in this country.

I/pe
14 June 1802

to S. Reade,
Lt Col Rame,
Hq Medical Divi.
K. General Hospital.







No. 12 General Hospital.

Table showing Admissions & Deaths from cases treated in the
 Enteric Division for the years 1900, 1901, & 1902.

Months	Admissions				Deaths			
	1900	1901	1902	Total	1900	1901	1902	Total
January		166	127	293		12	12	24
February		93	176	269		4	15	19
March		37	120	157		2	7	9
April		55	94	149		3	8	11
May	6	20	66	92	4	.	3	7
June	47	25		72	3	.		3
July	80	25		105	10	6		16
August	202	16		218	20	1		21
September	120	112		232	18	18		36
October	232	97		329	23	20		43
November	297	154		451	24	17		41
December	264	205		469	12	27		39
Total	1248	1005	583	2836	114	110	45	269

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(a) Lung affections -



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Report on Enteric Division

The Enteric Division of No 12 General Hospital was first formed under Lt Col Keogh and consisted of 12 marquees, each containing 8 beds, which number was later on reduced to 6. In addition there was one store Marquee containing 16 beds. The floors were covered with tarpaulin. When the hospital was taken over by Col Duke the tarpaulin was taken up and wooden bottoms put down. Some of the marquees were dished making boards for 12 beds. This was a good arrangement during the warm ^{dry} weather, also requiring fewer orderlies. But in the wet weather was not at all satisfactory.

The first cases of Enteric Fever were of a very severe type, the chief symptoms being intestinal haemorrhage, and rapid cardiac failure, at this time I noticed some cases with symptoms of Scary. As more hospitals were established further north the number of patients were decreased. When the system of mobile columns came into operation the number of patients rapidly increased, especially as the weather was for a long time the site of operations. These cases were generally of a severe class and aggravated by having to be sent long distances in ambulance coffins, across rough country.

The complications most common with the Enteric Fever here have been.

(a) Lung affections -

1. Pneumonia rarely attacking both Lungs
 2. Pleuritis, usually mild in character.
- (b) Gland affection

There was at one period a regular epidemic of inflammation of the parotid glands, usually single. Some of the glands suppurated necessitating free incision. Several Cases had both parotids attacked at the same time, and with one or two exceptions, had a fatal result.

Other glands affected were those in the axilla and groin, but were not common.

- (c) Thrombosis generally attacking the left leg was common. Usually occurred about the fourth week with very severe pain and oedema of the foot and ankle, in some Cases the patient was not affected till he was up a few days, and then the pain was confined to below the knee.

- (d) Brain Symptoms. There were several Cases of Meningitis, the delirium common to the fever was usually of a quiet character and the number of patients who suffered from it small.

- (e) Abdominal Troubles. These were confined to flatulence, Oplene pain, diarrhoea & Constipation, Jaundice, retention of Urine & intestinal haemorrhage. At one time a large number of patients had jaundice with the enteric attack, none ^{P.M.} ~~case~~ I found thickening and inflammation of the neck of the neck of the face bladder. A great number of Cases had severe diarrhoea or dysentery, following the enteric attack. The motions consisted of Mucous, Phlegm & clots of intestinal Membrane, it was very obstinate to Control.

During the fever more patients suffered from



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Constipation than from diarrhoea
in the Cases of Retention of Urine. Catheterization
for two or three days sufficed.
Haemorrhage from the bowels was more
common during the earlier stages of
the war, probably because patients had to
be carried longer distances before admission
to hospital.

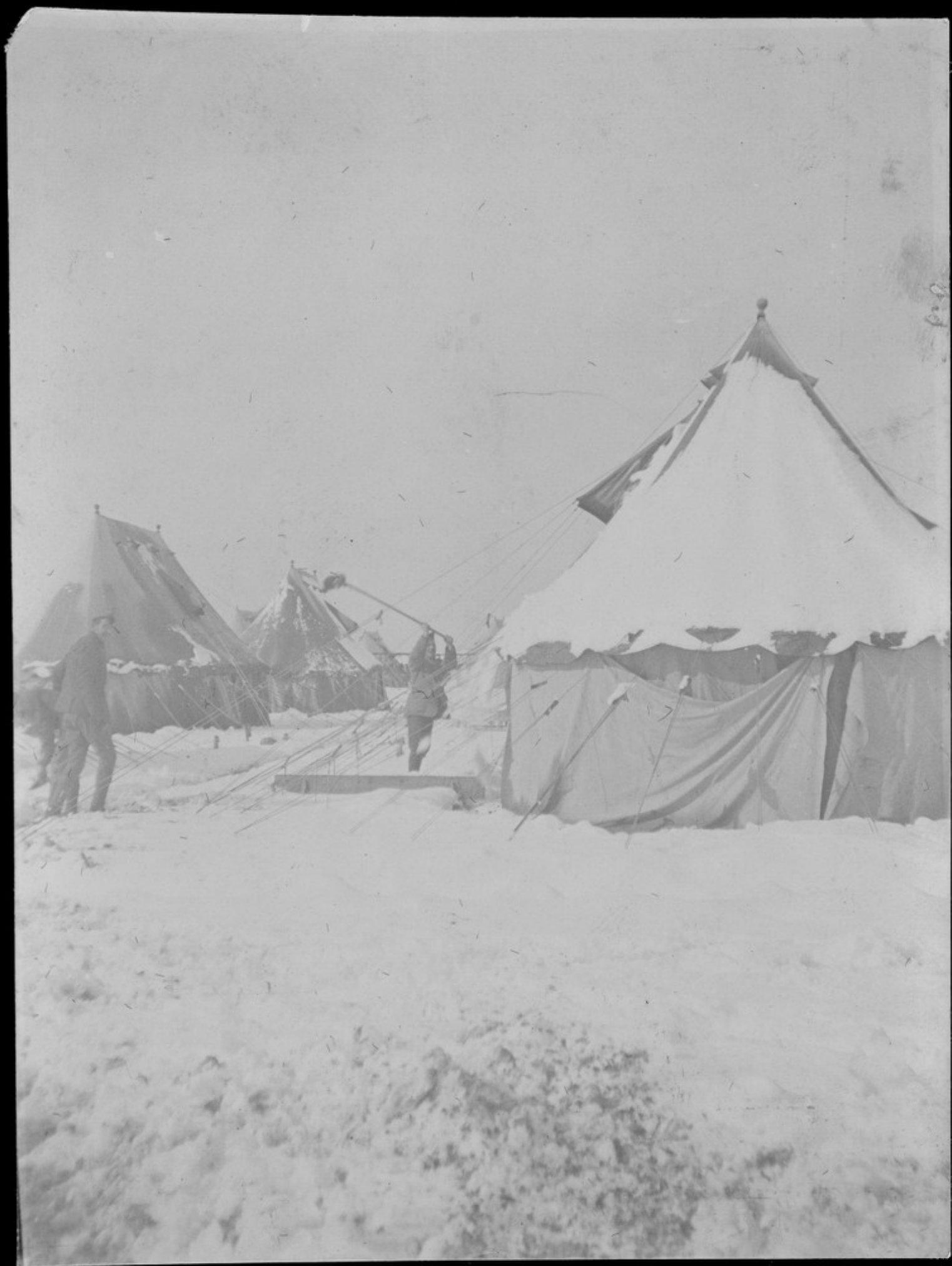
In thirteen Cases where death occurred
from perfration P.M. examinations
generally showed several perforations
rarely a single one, and they were of large
size.

In the Division several wards were set
apart exclusively for the treatment of
Dysentery the Cases were not as a rule
of a severe nature.

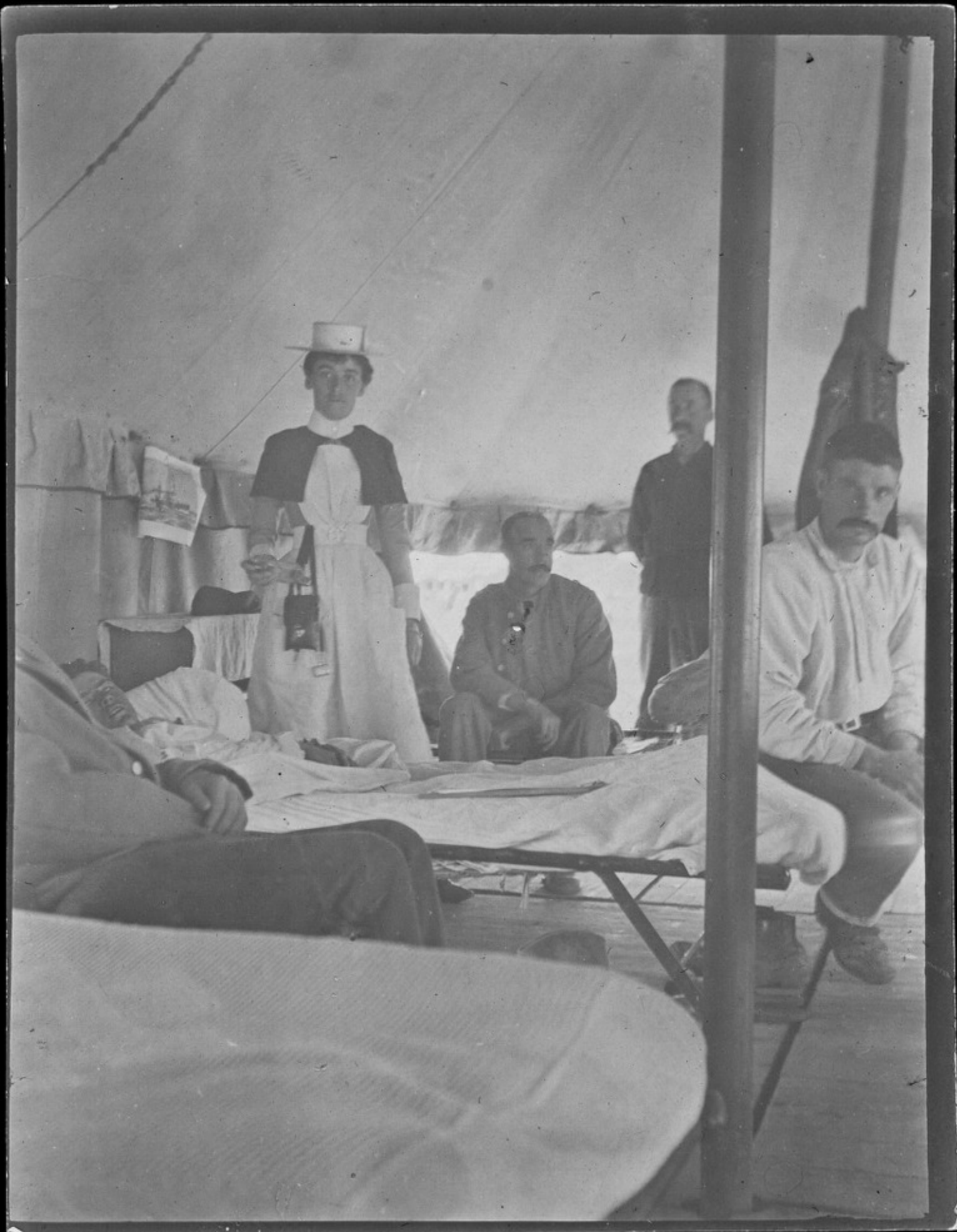
The treatment by ^{anhydrous} dry Sulph. and
in those Cases which came into Hospital
soon after the beginning of the attack
the treatment by Opium, Stimulants and
Bleeding answered well.

Disinfecting Arrangements -
For a long time the Enterie Stools
were destroyed by dry incineration
a large hole was dug in the ground
about fifty yards from the Division on
an open piece of ground and a fire
was kept constantly lit in it. After the
the excreta were burned having been
previously mixed with Chopped straw
and Chaff, the accumulated ash was
taken away and buried further out.
The disadvantages of this method were
that in wet weather the pit sometimes
got flooded, putting the fire out, also the
supply of fuel for burning with the excreta
was not constant, urine and Stools were









were also treated in the same way. The present arrangement introduced by Col Somerville. Large is as follows. The stools brought by the orderly from the ward in a bed pan, and taken to the row of buckets about 100 yards from the Division, each which is a tub containing lye, he puts some of the lye into the bed pan, then empties the contents of the pan into one of the buckets, the bed pan is then dipped into lye, then scrubbed in water, taken back, and stood on the shelf outside the ward ready for use again. The Buckets into which the stools are emptied are cleared out into two boilers which are constantly kept at boiling point. These boilers are emptied into a number of special buckets. A large iron tank is carted round twice a day and the Sterilized excreta are taken away in it and buried a distance of two miles outside the Camp. Urine and Slops are treated in the same manner. There is a special row of buckets for the urine and a row for Slops & water used in washing the patients. These buckets are emptied into the Sterilizer and the contents boiled with the excreta, and got rid of with them. The above arrangement works in a very satisfactory manner there being practically no offensive smell from the Sterilizer. The excreta are rendered harmless for spreading further disease and it is particularly good with regard to urine & Slops. The chief part of which is evaporated.

When patients are Convalescing they

they are transferred to a special section of the hospital as they do longer require bedpans, a special latrine is set apart for them. Conspicuously marked. The buckets of their latrine are brought to the sterilizer and the contents treated in the manner as previously described.

Soiled linen

The soiled linen is steeped in tubs containing a solution of Mercuric Chloride of Mercury (1 in 1000) after being well soaked in it for four hours, it is wrung out then spread on the ground till it is dry after which it is put through a 'Threshing Machine' for about 30 minutes then packed up and sent away to the wash.

Inoculation.

The number of patients suffering from Enteric Fever who have been inoculated has been very small. No statistics as regard effect of inoculation are available. Those patients who had been inoculated usually had a modified attack with low temperature. Patients who had been twice inoculated were very rare.

Treatment

I have tried all the best recommended treatments in Enteric, but came to the conclusion that none of them gave any benefit. So I stopped them and resorted simply to the treatment of symptoms and found that the patients did just as well.

I consider the only things necessary are feeding, perfect rest, plenty of fresh air

And stimulation according to the Case
Diet -

The diet during the fever stage consisted of 4 pints of Milk in 24 hours - with the exception of the beginning and end intervals we have been able to give the patients fresh milk a farm with several hundred milk cows under control of A. S. C. and at not 3 miles out supplying this milk.

This was in cans measuring 4 pints and sterilized in a specially built house in the hospital containing the Sterylizer, when not able to get fresh milk, condensed was used, the ordinary digestion making about $2\frac{1}{2}$ pints of Milk. Patients did very well on this of the two sorts. Nocturnal & unsweetened the latter was preferable, patients soon tire of the Nocturnal.

During Convalescence, Beef tea Custard, Eggs &c were given, there being always a plentiful supply. There was generally a good supply of fresh chickens available.

Site -

The entire Division is situated in an open space to the left rear of the rest of the hospital about 200 yards. The ground slopes to the South West on account of the proximity of Rappes, there is in fact beneath a great flow of water, necessitating extensive drainage to keep the site dry - All the marquees are trenched round with leads off into two long drains running on each side.

of the division, outside the division on
 the right is a drain $2\frac{1}{2}$ feet wide and
 3 feet deep which carries off all rain
 water from the slopes at the back of
 the division, the marquees at the
 most 27 in number are arranged
 in nine parallel rows of 3 each,
 separated by paths 6 feet wide, each
 Marquee contains 6 beds, 1 table, 1
 6 bed side table, there are four bed pans
 4 urine bottles and 6 Chamber pots
 in each ward, which I consider the
 very ample provision for the patient.
 The supply of blankets, bed linen,
 handkerchiefs has been ample
 Each Bed having 4 blankets and
 another one always available for cold
 nights. The bed linen has been changed
 at least twice a week and always
 immediately when soiled.
 In addition to the marquees for the
 men a separate Marquee was
 pitched on the right front and
 equipped for officers suffering from
 the fever, a great many little
 extra comforts being added.
 On the right flank of the division
 2 bell tents are for the Sisters doing
 duty in the division, next tent
 for the accommodation of the Ward
 Master, and one Marquee for storing
 linen & issuing the extras from
 a small house containing one
 room was built by C. S. Somerville
 large to accommodate the light
 Sister on duty in the division, and
 has been a great comfort in the
 cold weather. - R. Colbond
 25/6/02 Ant Surgeon 20129 P

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Case of Enteric Fever -

No 4964 R. W. H. Manchester 11 Suffolk.
Regt was admitted on the 10 Dec 1900
having been transferred from Bethnal
Green admission, he was found to have
a temperature of 103.6 , a dry and
furred tongue, the edges of which
were clean, abdomen distended, and
tender in the right iliac fossa
as was suffering from diarrhoea, having
four motions which were characteristic
of Enteric Fever. He complained of frontal
headache. On further examination, his
specimen was found to be enlarged, there
were no spots to be found on the abdomen
his pulse was quick (92) and soft.
On the 11th his morning temperature
was 103.6 and in the evening 103.2 .
His condition remaining about
the same, he had a slight attack
of epistaxis in the evening. On
the morning of the 12th at 8 am
he complained of acute pain in
the region of the left femoral vein
he rapidly collapsed, the pulse
being almost imperceptible, on
examination the leg was found to
be greatly swollen over the upper
third, acutely tender and the skin
red. The patient gradually grew
worse, respiration becoming
rapid and gasping. The facial muscles
left side started to twitch and he died
at 10.5 am of syncope.
He had not been inoculated
Post mortem appearance
General condition all nourished.

Heart, Left Ventricle hypertrophied.
 Aortic Ventricle Clot was found adherent
 to the auricle - Ventric valve. Left Heart
 The right ventricle was slightly dilated
 and free of blood clot. Lungs normal
 yellow, Enlarged and congested and
 mahogany brown color -
 Intestines, normal except at ileo-
 Cecal region where there was some
 congestion -
 Brain Right hemisphere congested
 Left though considered as blocked
 General brain blocked, Clots extend
 for about an inch, also the pons
 brain beneath the adductor corpus
 Other Systems normal

2.

No. 14663. James Rhison, Jr. was
 admitted on the 25th of Oct. with Enteric
 Fever, the attack was of a very severe
 nature Characterized by the very
 pronounced anæmia which resulted
 on admission he had a temperature
 of 102.5. thickly furrowed tongue, quick
 pulse, and diarrhoea of typical nature,
 for the first 12 days, the temperature
 remained about 100. In the morning
 with an evening rise to 103. On the
 5th Sept. he had a rather severe rigors
 with great perspiration following this
 resulted in the temperature becoming
 very irregular during the day & night
 in the evening & gradually rising each
 night - on the 13th 14th & 15th he had severe
 rigors with great falls in the temperature
 During this time he was slightly delirious,
 quiet in character, all through the

The pulse remained about a size of
 90, except occasionally when it became
 116, but most of the week. From the
 17th Sept the temperature ran a remittent
 character generally being lowered in
 the evenings. There were less abdominal
 symptoms, the diarrhoea ceased from
 the 15th Sept and the bowels became
 fairly regular. During the month of
 October he was subject to headache
 great prostration and had an occa-
 sional rise of temperature to about 100.
 He became during this time very
 anæmic a rent being audible on
 auscultation. He got up on the 1st Nov
 having been 76 days in bed. From tonic
 & liberal diet improved his condition
 greatly. He was subsequently discharged
 home.

**A Number of Blank Pages Follow, which have
not been Photographed.**

