

AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Medical, Dental & Nursing

Item number: 26/62/42

Title: No 1 Australian Casualty Clearing
Station

July 1918



AWM4-26/62/42

CONFIDENTIAL.

ORIGINAL.
~~DUPLICATE.~~
~~TRIPLICATE.~~

Australian Imperial Force.

WAR DIARY

OF

1st Aust. C. C. S.

FOR

JULY

1918

Signature of Officer compiling

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Signature of Officer Commanding

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WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
1st A.C.S. BLENDUEGUFF 360.NE F.5.6.7.6	1/7/18		First warm day. the quietest since the receiving day since 17 th ult. The influenza epidemic still continues + during the day 6 of the cookhouse staff were attacked.	97
	2/7/18		Quiet day not receiving.	
	3/7/18		Receiving. First day. very few wounded. Most of the admissions were rich cases. S/A. BROWN. A.A.N.S. struck off ration strength, transferred to H.C.S. sick. Capt MAHER. A.A.N.C. evacuated than rich, struck off strength + O.A.N.S. 2nd army applied to for an anaesthetic to replace latter.	97
	4/7/18		A quiet day. not receiving. S/A Gaulkner A.A.N.S. forwarded to V.R. in leave.	
	5/7/18		Quiet day. very quiet all day very few wounded admitted.	
	6/7/18		Full day. Evacuation to ST. OMER.	
	7/7/18		4th day. fairly busy receiving during the day, but slackened off during the evening. Major Whiteman A.A.N.C. reported for 3rd A.S.H. but as an accident to 4th Lt. Gradi, vice Capt. makes evacuation rich.	
	8/7/18		Very sultry day. Thunderstorm at night. The Ambulance Co. up to this date attached to the station for duty, was recalled by O.A.N.S. authority today, owing to shortage of Ambulance transport. The Co. attached to the 2nd A.C.S. will replace some with C.C. Station, an arrangement which is not likely to prove very satisfactory. PARIS leave day for third lot of the personnel forwarded them on leave this morning.	97

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ST. ALBANS	9/4/18		<p>Full day. Accused four 8 am fairly quiet. Case admitted being collapsed, diagnosed at Field Ambulance "Chic". Was thought on admission to have "perforated gastro-intestines". Gargling under "gas oxygen". 18" small bowel gurgles + an obstruction due to patient having swallowed a whole fig has formed below seat of gurgles. Death following Dr. during the afternoon a case was admitted showing marked "status epilepticus" death without recovery of consciousness. Capt COWEN. a.m. left for a leave for U.K. American Weathered Casualties are coming to one length.</p>	
	10/4/18		<p>Rank of patients just before 8 am resulted in Surgical teams being at work all during the day. Rain during afternoon evening. P.M. 5 2nd Army accompanied by Col THOM. sent unit + inspected area.</p>	
	11/4/18		<p>During the early morning some person or persons unknown introduced the Stationary Coy Contingent to the extent of 2000 odd francs. The money was contributed for the balance of interest left over for payment of the host, the first money. Sisters rationing allowance + various petty items of the represented funds. The P.M. 2nd Army has stopped + a further parade held. At once there has been no more about from the front front.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
1st Aust CCS	11/7/18		A search of the camp resulted in the boy being found lying behind a hedge & loosely wrapped in a blanket. A triangular opening had been made in the turf with a tin opened & all the papers had been gone through & some ^{all} money & stolen ^{stolen} the papers, pay books ^{etc} had all been returned to the shop. A detective sent down by the R.S.M. went into the matter, examining the boy for finger prints some of which were found & photographed. A search through the effects of all the attached men & some members of labour were under suspicion revealed nothing.	JH
	12/7/18		Dull day rain at intervals. A party of English Major C.E. Marshall joined Capt. Borton & Clark members, assembled at 9 am & began into the case of the safe & its contents of 11/7/18. Not receiving. Wind during evening though E.M.O. advising that since 11th Army would be received of this group.	
	13/7/18		Notification from D.M.S. that 1st & 2nd A.C.S. should be sent to 2nd Army Anti gas school on 17/7/18. That a gas chamber should be established for use of 1st & 2nd Aust CCS & that in future ^{in future} all gas helmets of patients discharged to duty should be sent at the CCS. With opening, a party of 100 men were warned 107 up to 7 pm including about 30 from 11th Army. Very few wounded.	JH

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INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
1st Aust CCS	14/7/18		Dull day, heavy rain at intervals. Sgt Reid left for transport duty to Anzac. Sqn Cramet + Sqn Innes reported for duty.	
	15/7/18		Dull day, busy in the afternoon receiving cases from the Anzac, 34 states hospital (V. Army). GENERAL BIRDWOOD, G.O.C 5th Army, and Capt A.I.F visited the front during the afternoon.	
	16/7/18		Very hot dull oppressive day, not raining. As a result of investigation by finger print expert in the case of the ^{heavy} stolen to 11/7/18. Pte DOUGHERNEY was placed under arrest on suspicion of being concerned in the robbery.	
	17/7/18		Dull hot day, oppressive day, good in 7 patients in during afternoon. Advised 9 units that the attached Surgical teams from 1st CCS are to proceed for duty to 62 CCS on being relieved by teams reporting here for duty, father from 54th CCS. Capt Clark, and Cpl Butler + Cpl Broadbent + Pte Ramsey (attached) proceeded to 2nd Army gas school today under instruction of P.M.S.	
	18/7/18		Windy fine day. Major Angus Marshall, Capt. Borlase Thorne + members of the medical teams, left today to report to 62 CCS on being relieved here by Capt Angus Marshall. Unit Pennefather 54 CCS, Capt Campbell Capt Nicholas to 8 CCS all reporting from 54 CCS with orders + instructions.	

WAR DIARY

or

INTELLIGENCE SUMMARY.

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14th Ant C.S.
360 N.E.
F.S. 676

19/7/11

Fine day. Quiet hotel Huddley. Word had been received from Army that a fairly large no. of wounded might be expected as the 9th Division was to attack near Arras. ^{at 8 am} Cases for this Division commenced to come in at Huddley & by about 3 pm 150 Cases had been received, they were all severely wounded. No 2 Ant C.S. was switched ^{on} to receiving 150, they directed the cases back on receiving 50, this C.S. then received 50 and diverted to No 2 Ant. Asking that they might take 150. As their accommodation did not allow of this, & the amount of work I had ^{done then} was sufficient to keep our legs busy, D.M.S. was asked for an examination as a result to admission to the Army examination of 46 Cases. 113 were examined at 6.30 pm. Sir. A. Bomby, Consulting Surgeon to G.H.Q. visited the unit whilst the cases were being received & arranged that No 18 C.S. & the 4 B.P.C. Hospital should be directed to during the evening to take further the presence of the 2 C.S. During the day, the Ambulance Transport was brought to this C.S. for Boulogne by arrangement with the eye specialist of 58 C.S. to attend a F.B. for the eye of one of the patients, it was found however that the F.B. was not required.

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INTELLIGENCE SUMMARY.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
36 D.N.E. F.S. 8.76	20/7/18		<p>Whole day very severe thunder storm & the afternoon. The Surgeons Centre went busy up to midnight finishing off the residue of cases from yesterday. The D.O.M.S XVth Corps. AMOORE handled the unit during the afternoon. Capt Clarke & party reported back from 2nd Army Gas school during the afternoon.</p>	By
	21/7/18		<p>Whole cloudy day. Receiving fairly heavy, but gas cases the first few over a month have admitted, they have been from 9th Batt. A.I.F. & have casualties from our own gas. During the afternoon a band from one of the batts. played for the patients. Most has been received from P.T. Companies joining from this unit since 12/4/17 to have a presence in German hands. Major MARRSHALL left for PARIS scene. Arrangements are being made to evacuate serious cases by Rail.</p>	By
	22/7/18.		<p>Fine day, but rained towards evening. Small number of patients admitted just before 8 am admitted in the surgical staff (day) being kept busy for most of the day. The commutation has improved to clear all the wounds.</p>	By
	23/7/18		<p>Whole wet day, very receiving sick many were wounded. A great many cases of dysentery have received from 15th H.O.S.B 24th Div. The Coix de General has improved, today on 10th Lt MARKS. D.S.O. commanding this unit by Maj. Gen. Quinn Brown. D.M.S 2nd Army.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	24/7/18		<p>Quiet bright day. The proceedings of the Court of Inquiry held on April 29th/18 on the loss of stores at HONOCHEM + OUTTERSTEENE as a result of the enemy advances have returned with a recommendation by Q.A.A.G. G.H.Q. that the sum of £699-15-11 being the estimated value of the property lost of the C.O.S. be written off as a charge on public funds. Capt S.D. COWEN. returned from leave O.V.R.</p>	
	25/7/18		<p>Fairly heavy day. ^{all the} Cases received at the ^{have} with the exception of ^{from} 1/2 day ^{1/2 day} last. A good many cases of P.V.O. are being received some undoubtedly French General. The point of these cases are against P.V.O. means showing cases that they are not being delivered + shipped out. They mark this station. This results in a good deal of the precautions being taken of this Army to stamp out French General, being nullified. It must be better to treat all suspicious cases as French General + deliver + ship them. Also to continue the present system. Major Warburton of 54th C.S. reports a relief of Capt McPherson of the same unit, about to proceed on leave. A/S Stewart Richardson proceeded on leave this morning O.V.R.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
36 DNE F.S. 1.6	26/4/18		Dull wet day. Not receiving. Surgeon General HOWSE, V.C. R.C.B. visited the unit during the day. Case of throat diphtheria admitted yesterday, diagnosed today by bacteriologist Cullis has transferred to N.Z. Stationary Hospital (Spinal Anterior for infectious diseases 2nd Army). A lecture on "Mustard Gas" was given by the Chemical Advisor 2nd Army. & the unit during the afternoon.	2
	27/4/18		Dull wet day. receiving. F.G.C.M. held at ST. OMER in FENTON. Pte BUTLER Pte IBBOT. 3 Convalescent Venereal patients changed. When on active service discharging a lamp post comment given by his superior officer in the field on the 21st. 7. 18 when ordered by Sgt Barrett F.H. to work at the front line, but did so. an attempt to change & having been ordered to change was ordered (AA sect 8.2)	2
	28/4/18		Dull day, not receiving. Large evacuation of the unit, delayed a good deal by failure of train to come in up to time. A siding to hold evacuation which will enable 1st & 2nd Amst C.C. Station to load & unload on to the train which will run right up to the hospital. Gen. Birdwood visited the unit this evening. Have some dental work done.	2
	29/4/18		Dull oppressive day. Proceedings of the court martial held at ST. OMER 27/4/18 returning Pte IBBOTT. found guilty of attempt to change, sentenced to 21 days F.P. No 1. In FENTON. Pte BUTLER, guilty of same charge & 28 days F.P. No 1. continued finding have been found guilty	2

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Blancmesnil.	29/7/18.		A Coxeter, sighted for gas & oxygen apparatus. from base of the station arrived today.	
	30/7/18.		The two engine teams of 5th Army C.C.S (5478) left today under instructions from D.M.S and Army. Capt. P.W.L. Camps Surgeon Capt T. Macfarlane R.A.M.C. Sister Scott J. Q.A.M.N.S.R. + 6 O.R. (51 C.C.S) reported for duty as a surgical team from 2nd Ant C.C.S. Sister M. Williams, M. Nicholas. 4. Pierreport R.F.M.S. reported for 54 C.C.S for duty as partially trained anaesthetists, evacuation as usual.	
	31/7/18.		Very oppressive day, received a good many sick cases, including about 30 gassed. Some of the latter were fairly severe. The fact that the majority of the cases were admitted as walking cases to the C.C.S in the clothes in which they had been gassed, and was reported to the Consulting Physician, the 13th British Field Ambulance ^(V.R.M.) was at fault with matter 27 the cases which thus walked & were severely gassed.	

19
8

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ho, Aust	1 st		Received & evacuated patients - Work fairly quiet in hospital 8.9.7.	
G.C.S.	2 nd		Evacuation of patients - Fairly busy 8.9.7.	
July	3 rd		Fairly busy - S/Nurse F Brown evacuated to Sick Sisters ho 11 C.C.S. with Influenza - Received patients 8.9.7.	
	4 th		Fairly busy in hospital - S/Nurse B Faulkner left for leave to the United Kingdom 8.9.7.	
	5 th		Received patients - Fairly busy 8.9.7.	
	6 th		Fairly busy. 8.9.7.	
	7 th		Received patients - Fairly quiet 8.9.7.	
	8 th		Evacuation of patients - Quiet in hospital 8.9.7.	
	9 th		Received patients - Fairly quiet day 8.9.7.	
	10 th		Busy day in all wards - D.M.S. visited Station 8.9.7.	
	11 th		Received patients - Fairly busy 8.9.7.	
	12 th		Evacuation of patients - Fairly busy 8.9.7.	
	13 th		Received & evacuated patients - Fairly busy 8.9.7.	
	14 th		Busy all day in Op. theatre - Wards fairly busy - Sister B.M. Cramer + S/Nurse M.D. Ivers. reported for duty from No 11 C.C.S. - S/Nurse F Brown rejoined from Sick Sisters ho 11 C.C.S. 8.9.7.	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
No 1 Aust CCS	15 th		General Birdwood visited Station - Received + examined patients	
July			Busy in all wards & theatre. 29.7	
	16 th		S/Nurse S. C. Reddie left to report for duty at No 3 Aust General Hospital.	
			Fairly busy day 29.7	
	17 th		Received patients - Fairly busy day 29.7	
	18 th		Examination of Patients - Sister / Misses 2A, 2M, 2SR & Sister Russell - Ross	
			2A, 2M, 2SR left to report ^{for duty} at No 6 2 C.C.S. with surgical teams - Sister Miller	
			& S/Nurse Digby 2A, 2M, 2SR. Reported for duty in operating theatre with	
			2 surgical teams from No 5 4 C.C.S. 29.7	
	19 th		Received patients - Very busy in all wards & theatre. 29.7	
	20 th		Examination - Busy in all wards 29.7	
	21 st		Received Patients, Busy in all wards. Examination of Patients. 29.7	
	22 nd		Busy in Ante Wards - Miss Hartigan Principal Matron visited Station S/Nurse S. Faulkner	
	23 rd		Received & Examined patients - Busy in all wards. Rejoined from leave.	
	24 th		Fairly busy -	
	25 th		Busy in Ante Wards - Received patients - Sister Stewart - Richardson left for leave to United Kingdom (2A 2M 2SR - anaesthetist) 29.7	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ho 1 Aust CCS	26 ^h		Examination of Patients - Fairly busy day - General House visited Station 297	
July	27 ^h		Received & examined patients - Busy day - 297.	
	28 ^h		Examination of patients - Quiet in Hospital - 297.	
	29 ^h		Sister Williams, Sister Nicholas, Sister Phipps 2A 9 M.N.S.R. reported for duty as pupil anaesthetists from ho 54 General Hospital B.27. Examination of patients - Quiet in Hospital 297.	
	30 ^h		Sister Miller 2A 9 M.N.S.R. transferred to 55 Army Advanced Operating Centre with surgical team & Sister Rigby 2A 9 M.N.S.R. transferred to ho 54 C.C.S. for duty with surgical team. Sister A. Sutt 2A 9 M.N.S.R. reported for duty in operating theatre with surgical team from ho 2 Aust C.C.S. Busy in Hospital. 297.	
	31 ^h		Received patients & examined. Busy in Hospital 297.	
			E. G. Hemming Head Sister	

OF

1st AUST. C. C. S

FOR

July

1918

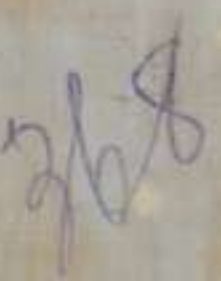
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Thamby



APPENDIX

2

SECRET.SITUATIONS OF MEDICAL UNITS
SECOND ARMY TROOPS
12 Noon 29th. June, 1918.

I.S. No. 46.

CASUALTY CLEARING STATIONS

BLÉNDECOQUES.
No. 1 Aus: - Sh.36d.NE/F.5.b.7.6.
No. 2 Aus: - Sh.36d.NE/F.5.b.9.6.
WATTEN.
No.36 - Sh.27a.NE/L.19.c.5.5.
No.63 - Sh.27a.NE/K.30.a.3.8.
No.64 - Sh.27a.NE/K.24.c.8.4.
Nr. BERGUES.
No.10 - Sh.19/U.9.c.Central.
No.44 - Sh.19/O.20.b.7.7.
LONGUENESSE.
No.58 - Sh.27a.SE/X.16.b.7.7.

ESQUELBECQ.
No. 3 Aus: - Sh.27/F.6.c.7.1.
No. 2 Can: - Sh.27/C.7.b.1.4.
HOLQUE.
No.13 - Sh.27a.NE/L.1.b.4.9.
BOURG nr WISQUES.
E-No.17 - Sh.27a.SE/V.29.a.3.3.
MAL-ASSESE.
No.18 - Sh.27a.SE/X.17.d.9.7.
MOULLE.
No.11 - Sh.27a.SE/V.2.11.c.4.8.

HOSPITALS.

CLERQUES nr LIQUES.
No.10 Stationary - @
Sh.Calais 13/F.3.85.55.

ARQUES.
No.4 Stationary - @

BOURG nr WISQUES.
New Zealand Stationary.
Sh.27a.SE/V.29.b.3.5.

LONGUENESSE.

No.9 B.R.C.(Duchess of Sutherland's) (X - Closed for reception of Venereal cases.)
Sh.27a.SE/X.10.c.2.1.

MOTOR AMBULANCE CONVOYS.

E-No. 2 (att Army) BOLLEZEELE No.14 (att XV Corps) RACQUINGHEM
No. 4 (att II Corps) OOST CAPPEL No.20 (att Army) Nr. ST OMER.
(Sh.19/W.19.b.6.8.) (Sh.27a.SE/X.12.c.Central.)
No. 5 (att Army) WATTEN F.A.N.Y.(att ADMS St.Omer) MAL-ASSESE
(E - Two Sections att: XIX Corps)

ADVANCED DEPOTS OF MEDICAL STORES.

No. 2 BLÉNDECOQUES No.3 ST OMER No.11 GANSPETTE
No.31 LONGUENESSE No. 2 Can: ESQUELBECQ.

MOBILE LABORATORIES.

No.1 (Bac) Nr.BERGUES(att 10 CCS) No. 8(Bac) HOLQUE (att 13 C.C.S.)
No.4 (Hyg) BOURG No.11 (Bac) BLÉNDECOQUES(att 2 Aus:CCS)

MOBILE X-RAY UNITS.

No. 3 ESQUELBECQ (att 2 Can: C.C.S.) No. 7 MOULLE (att II C.C.S.)

OPHTHALMIC CENTRE LONGUENESSE (att 58 C.C.S.)
MECHANICAL DENTAL CENTRE LONGUENESSE (att 58 C.C.S.)
No. 4 MOBILE DENTAL UNIT HOLQUE (att 13 C.C.S.)

SANITARY SECTIONS.

No.13 (att II Corps) (F.29.d.5.9.Sh.27) No.56 (att Army) MOULLE
No.25 (att II Corps) (V.30.d.4.4.Sh.19) No.71 (att Army) RUBROUCK
No.42 (att II Corps) (E.13.Cent:Sh.27) No.72 (att Army) HEURINGHEM
No.47 (att Army) LUMBRES No.81 (att II Corps) F.11.b.4.3.Sh.27.
No.49 (att XV Corps) BLARINGHEM. N.Z. (att XV Corps) V.1.c.7.0.Sh.27.
No. 2 Aust'n (att XV Corps) (V.21.b.Cent:Sh.27)

SANITARY SQUADS.

No. 28 POPERINGHE
No. 29 E.13.c.5.9.Sh.27.
No. 38 EBBLINGHEM
No. 2 ST OMER

RAILHEAD SQUADS.

Nos. 1. 9. 33. 37. 39. 41 & 42
N.C.O's. and men distributed to
Railheads in Army Areas.

H.Q., Second Army.
29.6.18.
M.

J. G. Howells
Lieut. Colonel,
for Major General,
Director of Medical Services.

1st AUSTRALIAN	CASUALTY CLEARING	STATION.	No	Date

SECRET.

SITUATIONS OF MEDICAL UNITS
SECOND ARMY TROOPS
12 Noon 6th. July, 1918.

CASUALTY CLEARING STATIONS.

368
No. 1 Aus: - BLENDÉCQUES.
No. 2 Aus: - Sh. 36d.NE/F.5.b.7.6.
No. 2 Aus: - Sh. 36d.NE/F.5.b.9.6.

WATTEN.
No. 36 - Sh. 27a.NE/L.19.c.5.5.
No. 63 - Sh. 27a.NE/K.30.a.3.8.
No. 64 - Sh. 27a.NE/K.24.c.8.4.

Nr. BERGUES.
No. 10 - Sh. 19/U.9.c. Central.
No. 44 - Sh. 19/O.20.b.7.7.
No. 58 - Sh. 27a.SE/X.16.b.7.7.
No. 62 - ARNEKE. - @

CLERQUES nr LICQUES.

No. 10 Stationary - @
Sh. Calais 13/F.3.85.55.

HOSPITALS.

ARQUES.

No. 4 Stationary - %

BOURG nr WISQUES.
New Zealand Stationary.
Sh. 27a.SE/W.29.b.3.5.

LONGUENESSE.

No. 9 B.R.C. (Duchess of Sutherland's)
Sh. 27a.SE/X.10.c.2.1.

@ - Closed)

(% - Closed for
reception of
Venereal cases.)

MOTOR AMBULANCE CONVOYS.

£-No. 2 (att Army) BOLLEZEELE. No. 14 (att XV Corps) RACQUINGHEM
No. 4 (att II Corps) OOST CAPPEL No. 20 (att Army) Nr. St. Omer.
(Sh. 19/W.19.b.6.8.) (Sh. 27a.SE/X.12.c. Central).
No. 5 (att Army) WATTEN F.A.N.Y. (att ADMS St. Omer) MAL-ASSESE.
(£ - Two Sections att: XIX Corps)

ADVANCED DEPOTS OF MEDICAL STORES.

No. 2 BLENDÉCQUES
No. 31 LONGUENESSE

No. 3 ST OMER

No. 11 GANS PETTE
No. 2 Can: ESQUELBECQ.

MOBILE LABORATORIES.

No. 1 (Bac) Nr. BERGUES (att 10 C.C.S.) No. 8 (Bac) HOLQUE (att 13 CCS)
No. 4 (Hyg) BOURG No. 11 (Bac) BLENDÉCQUES (att 2 Aus: CCS)

MOBILE X-RAY UNITS.

No. 3 ESQUELBECQ (att 2 Can: C.C.S.) No. 7 MOULLE (att 11 C.C.S.)

OPHTHALMIC CENTRE ... LONGUENESSE (att 58 C.C.S.)
MECHANICAL DENTAL CENTRE. ... LONGUENESSE (att 58 C.C.S.)
No. 4 MOBILE DENTAL UNIT. ... HOLQUE (att 13 C.C.S.)

SANITARY SECTIONS.

No. 13 (att XIX Corps)
(J. 35.d.8.5.Sh. 27)
No. 25 (att II Corps)
(V. 30.d.4.4.Sh. 19)
No. 42 (att II Corps)
(E. 13.Cent: Sh. 27.)
No. 47 (att Army) LUMBRES
No. 49 (att XV Corps) BLARINGHEM

No. 56 (att Army) MOULLE
No. 71 (att Army) RUBROUCK
No. 72 (att Army) HEURINGHEM
No. 81 (att II Corps) F. 11.b.4.3.Sh. 27.
No. 82 (att Army) BAVINCHOVE
No. 2 Aust'n (att XV Corps)
(V. 21.b. Cent: Sh. 27)
N. 7. (att XV Corps) V. 1.c.7.0.Sh. 27.

Sanitary Squads.

No. 28 POPERINGHE
No. 29 E. 13.c.5.9.Sh. 27.
No. 38 EBBLINGHEM
No. 2 ST OMER.

Railhead Squads.

Nos. 1. 9. 33. 37. 39. 41 & 42
N.C.O's. and men distributed to
Railheads in Army Areas.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

No

Date

H.Q., Second Army.
6.7.18.
M.

Director of Medical Services.

Lieut. Colonel,
for Major General,

Capt. Stirling. Assistant Adjutant General in Pathology. 14005 1st Ambulance
Laboratory attached 10 CCS



SECRET.

SITUATIONS OF MEDICAL UNITS
SECOND ARMY TROOPS
12 Noon 13th. July 1918.



2

17

CASUALTY CLEARING STATIONS.

BLÉNÉDECQUES.
No. 1 Aus: - Sh. 36d.NE/F.5.b.7.6.
No. 2 Aus: - Sh. 36d.NE/F.5.b.9.6.
WATTEN.
No. 36 - Sh. 27a.NE/L.19.c.5.5.
No. 63 - Sh. 27a.NE/K.30.a.3.8.
No. 64 - Sh. 27a.NE/K.24.c.8.4.
Nr. BERGUES.
No. 10 - Sh. 19/U.9.c. Central.
No. 44 - Sh. 19/O.20.b.7.7.
LONGUENESSE.
No. 58 - Sh. 27a.SE/X.16.b.7.7.

ESQUELBECQ.
No. 3 Aus: - Sh. 27/E.6.c.7.1.
No. 2 Can: - Sh. 27/C.7.b.1.4.
HOLQUE.
No. 13 - Sh. 27a.NE/L.1.b.4.9.
BOURG Nr WISQUES.
@-No. 17 - Sh. 27a.SE/W.29.a.3.3.
MAL-ASSESE.
No. 18 - Sh. 27a.SE/X.17.d.9.7.
MOULLE.
No. 11 - Sh. 27a.SE/Q.11.c.4.8.
@-No. 62 - ARNEKE.

CLERQUES nr LICQUES.
No. 10 Stationary - @
Sh. Calais 13/F.3.85.55

HOSPITALS.
ARQUES.
No. 4 Stationary - %

BOURG Nr WISQUES.
New Zealand Stationary
Sh. 27a.SE/W.29.b.3.8.

@- Closed.) No. 9 B.R.C. (Duchess of Sutherland's) (% - Closed for reception of Venereal cases.)
Sh. 27a.SE/X.10.c.2.1.

MOTOR AMBULANCE CONVOYS.

~~No. 2~~ (att Army) Sh. 27/C.29.c.1.3. No. 14 (att XV Corps) RACQUINGHEM.
No. 4 (att II Corps) OOST CAPPEL. No. 20 (att Army) Nr St Omer.
(Sh. 19/W.19.b.6.8.) (Sh. 27a.SE/X.12.c. Central)
F.A.N.Y. (att ADMS St Omer) MAL-ASSESE
@-No. 5 (att Army) WATTEN.
(% - Two Sections att: XIX Corps.)
(% - One Section of each att: X Corps.)

ADVANCED DEPOTS OF MEDICAL STORES.

No. 2 BLÉNÉDECQUES No. 3 ST OMER No. 11 GANSPETTE
No. 31 LONGUENESSE No. 2 Can: ESQUELBECQ

MOBILE LABORATORIES.

No. 1 (Bac) Nr. BERGUES (att 10 CCS) No. 8 (Bac) HOLQUE (att 13 C.C.S.)
No. 4 (Hyg) BOURG No. 11 (Bac) BLÉNÉDECQUES (att 2 Aus: CCS)

MOBILE X-RAY UNITS.

No. 3 ESQUELBECQ (att 2 Can: C.C.S.) No. 7 MOULLE (att 11 C.C.S.)

OPHTHALMIC CENTRE ... LONGUENESSE (att 58 C.C.S.)
MECHANICAL DENTAL CENTRE. ... LONGUENESSE (att 58 C.C.S.)
No. 4 MOBILE DENTAL UNIT. ... HOLQUE (att 13 C.C.S.)

SANITARY SECTIONS.

No. 13 (att XIX Corps) No. 56 (att Army) MOULLE
(K.35.d.8.5.Sh.27) No. 71 (att Army) RUBROUCK
No. 25 (att II Corps) No. 72 (att Army) HEURINGHEM
(F.29.d.5.9.Sh.27) No. 81 (att II Corps) F.11.b.4.3.Sh.27.
No. 42 (att II Corps) x-No. 82 (att Army) BAVINCHOVE
(E.13.c. Cent: Sh.27) No. 2 Aust'n (att XV Corps)
No. 45 (att XIX Corps) ARNEKE (V.21.b. Cent: Sh.27)
No. 47 (att Army) LUMBRES x-N. Z. (att XV Corps) V.1.c.7.0.Sh.27.
No. 49 (att XV Corps) BLARINGHEM
(x - Moving to X Corps shortly)

SANITARY SQUADS.

No. 28 POPERINGHE
No. 29 E.13.c.5.9.Sh.27.
No. 38 EBBLINGHEM
No. 2 ST OMER

H.Q., Second Army.
13th. July 1918.
M.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.
No.
Date

RAILHEAD SQUADS.

Nos. 1. 9..33. 37. 39. 41 & 42
N.C.Os and Men distributed to
Railheads in Army Areas.

J. G. Howell
Lieut. Colonel,
for Major General,
Director of Medical Services.

H.S.No. 49

SITUATIONS OF MEDICAL UNITS
SECOND ARMY TROOPS
20th. July, 1918 - 12 Noon.

CASUALTY CLEARING STATIONS.

BLENDÉCQUES.
No. 1 Aus: - Sh. 36d. NE/F. 5. b. 7. 6.
No. 2 Aus: - Sh. 36d. NE/F. 5. b. 9. 6.
WATTEN.
No. 36 - Sh. 27a. NE/L. 19. c. 5. 5.
x-No. 63 - Sh. 27a. NE/K. 30. a. 3. 8.
No. 64 - Sh. 27a. NE/K. 24. c. 8. 4.
Nr. BERGUES.
No. 10 - Sh. 19/U. 9. c. Central
No. 44 - Sh. 19/O. 20. b. 7. 7.
LONGUENESSE.
No. 58 - Sh. 27a. SE/X. 16. b. 7. 7.

ESQUELBECQ.
No. 3 Aus: - Sh. 27/B. 6. c. 7. 1.
No. 2 Can: - Sh. 27/C. 7. b. 1. 4.
HOLQUE.
x No. 13 - Sh. 27a. NE/L. 1. b. 4. 9.
BOURG Nr. WISQUES.
@-No. 17 - Sh. 27a. SE/W. 29. a. 3. 3.
MAL-ASSESE.
No. 18 - Sh. 27a. SE/X. 17. d. 9. 7.
MOULLE.
No. 11 - Sh. 27a. SE/Q. 11. c. 4. 8.
ARNEKE.
No. 62 - Sh. 27/I. 19. c. 8. 3.

HOSPITALS.

CLERQUES Nr. LICQUES.

No. 10 Stationary
Sh. Calais 13/F. 3. 85. 55.

ARQUES.

No. 4 Stationary - %

BOURG Nr. WISQUES.

New Zealand Stationary
Sh. 27a. SE/W. 29. b. 3. 8.

LONGUENESSE.

No. 9 B.R.C. (Duchess of Sutherland's) (% - Closed for
Sh. 27a. SE/X. 10. c. 2. 1. (reception of
(Venereal cases).

@ - Closed)

x - Moving).

MOTOR AMBULANCE CONVOYS.

£-No. 2 (att Army) Sh. 27/C. 29. c. 1. 3. No. 14 (att XV Corps) RACQUINGHEM
No. 4 (att II Corps) OOST CAPPEL No. 20 (att Army) Nr. St Omer
(Sh. 19/W. 19. b. 6. 8.) @-(Sh. 27a. SE/X. 12. c. Central)
@-No. 5 (att Army) WATTEN F.A.M.Y. (att ADMS St Omer) MAL-ASSESE
(£ - Two Sections att XIX Corps)
(@ - One Section of each att: X Corps)

ADVANCED DEPOTS OF MEDICAL STORES

No. 2 BLENDÉCQUES No. 3 ST OMER No. 11 GANSPETTE No. 2 Can: ESQUELBECQ

MOBILE LABORATORIES.

No. 1 (Bac) Nr. BERGUES (att 10 CCS) No. 8 (Bac) HOLQUE (att 13 C.C.S.)
No. 4 (Hyg) BOURG No. 11 (Bac) BLENDÉCQUES (att 2 Aus: CCS)

MOBILE X-RAY UNITS.

No. 3 ESQUELBECQ (att 2 Can: C.C.S.) No. 7 ARNEKE (att 62 C.C.S.)

OPHTHALMIC CENTRE

MECHANICAL DENTAL CENTRE.

No. 4 MOBILE DENTAL UNIT.

LONGUENESSE (att 58 C.C.S.)

LONGUENESSE (att 58 C.C.S.)

HOLQUE (att 13 C.C.S.)

SANITARY SECTIONS.

No. 13 (att XIX Corps) (K. 35. d. 8. 5. Sh. 27) No. 56 (att Army) MOULLE
No. 25 (att II Corps) (F. 29. d. 5. 9. Sh. 27) No. 71 (att Army) RUBROUCK
No. 42 (att II Corps) (E. 13. c. Cent: Sh. 27) No. 72 (att Army) HEURINGHEM
No. 45 (att XIX Corps) ARNEKE No. 81 (att II Corps) F. 11. b. 4. 3. Sh. 27.
No. 47 (att Army) LUMBRES No. 82 (att X Corps) BAVINCHOVE
No. 49 (att XV Corps) BLARINGHEM No. 2 Aust'n (att XV Corps) (V. 21. b. Cent: Sh. 27)
N. 2. (att X Corps) P. 3. a. 8. 5. Sh. 27.

SANITARY SQUADS.

No. 28 POPERINGHE
No. 29 E. 13. c. 5. 9. Sh. 27.
No. 38 EBBLINGHEM
No. 2 ST OMER

RAILHEAD SQUADS.

Nos. 1. 9. 33. 37. 39. 41 & 42
N.C.O's and men distributed to
Railheads in Army Areas.

H.Q., Second Army.
20.7.18.
M.

1st AUSTRALIAN
CASUALTY CLEARING
STATION.

No.

Date

Lieut. Colonel,
for Major General,
Director of Medical Services.

SECRET

SITUATIONS OF MEDICAL UNITS SECOND ARMY TROOPS 12 Noon 24th. July, 1918.



CASUALTY CLEARING STATIONS.

BLENDÉCQUES
No. 1 Aus: - Sh.36d.NE/F.5.b.7.6.
No. 2 Aus: - Sh.36d.NE/F.5.b.9.6.
WATTEN
No.36 - Sh.27a.NE/L.19.c.5.5.
No.64 - Sh.27a.NE/K.24.c.8.4.
Nr. BERGUES
No.10 - Sh.19/U.9.c.Central.
No.44 - Sh.19/O.20.b.7.7.
LONGUENESSE
No.58 - Sh.27a.SE/X.16.b.7.7.

ESQUELBECQ
No. 3 Aus: - Sh.27/B.6.c.7.1.
No. 2 Can: - Sh.27/C.7.b.1.4.
ARNEKE
@-No.13 - Sh.27/I.19.c.3.5.
No.62 - Sh.27/I.19.c.8.3.
BOURG nr WISQUES
@-No.17 - Sh.27a.SE/W.29.a.3.3.
MAL-ASSESE
No.18 - Sh.27a.SE/X.17.d.9.7.
MOULLE
No.11 - Sh.27a.SE/Q.11.c.4.8.

HOSPITALS.

CLERQUES nr LICQUES
No. 10 Stationary - Sh.Calais 13/F.3.85.55.
ARQUES
No.4 Stationary-%
BOURG nr WISQUES
New Zealand Stationary
Sh.27a.SE/W.29.b.3.8.

No.9 B.R.C.(Duchesse of Sutherland's) (% - Closed for reception of Venereal cases.)
Sh.27a,SE/X.10.c.2.1.
@ - Closed).

MOTOR AMBULANCE CONVOYS.

-No. 2 (att Army) Sh.27/C.29.c.1.3.
No. 4 (att II Corps) OOST CAPPEL (Sh.19/W.19.b.6.8.)
-No. 5 (att Army) WATTEN
F.A.N.Y.(att ADMS St Omer)MAL-ASSESE
(£- Two Sections att: XIX Corps)
(D- One Section of each att: X Corps)

No.14 (att XV Corps) RACQUINGHEM.
No.20 (att Army) St Omer
@-(Sh.27a,SE/X.12.c.Central)

ADVANCED DEPOTS OF MEDICAL STORES.

No. 2 BLENDÉCQUES No.11 GANSPETTE No. 2 Can: ESQUELBECQ

MOBILE LABORATORIES.

No.1 (Bac) Nr.BERGUES(att 10 CCS) No. 8 (Bac) WATTEN (att 64 C.C.S)
No.4 (Hyg) BOURG No.11 (Bac)BLENDÉCQUES(att 2 Aus:CCS)

MOBILE X-RAY UNITS.

No. 3 ESQUELBECQ (att 2 Can: C.C.S) No. 7 ARNEKE (att 62 C.C.S).

OPHTHALMIC CENTRE ... LONGUENESSE (att 58 C.C.S.)
MECHANICAL DENTAL CENTRE ... LONGUENESSE (att 58 C.C.S.)
No. 4 MOBILE DENTAL UNIT ... ARNEKE (att 13 C.C.S.)

SANITARY SECTIONS.

No.13 (att XIX Corps) (K.35.d.8.5.Sh.27)
No.25 (att II Corps) (F.29.d.5.9.Sh.27)
No.42 (att II Corps) (E.13.c.Cent:Sh.27)
No.45 (att XIX Corps) (Sh.27/I.17.b.2.7.)
No.47 (att Army) LUMBRES

No.56 (att Army) MOULLE
No.71 (att Army) RUBROUCK
No.72 (att Army) HEURINGHEM
No.81 (att II Corps)F.11.b.4.3.Sh.27.
No.82 (att X Corps) BAVINCHOVE
No. 2 Aust'n (att XV Corps) (V.21.b.Cent:Sh.27)
N. Z. (att X Corps)P.3.a.8.5.Sh.27.
No.49 (att XV Corps) BLARINGHEM

SANITARY SQUADS.

No.28 POPERINGHE
No.29 E.13.c.5.9.Sh.27.
No.38 EBBLINGHEM
No. 2 ST OMER

RAILHEAD SQUADS.

Nos. 1. 9. 33. 37. 39. 41 & 42
N.C.O's and men distributed to
Railheads in Army Areas.

H.Q., Second Army.
24.7.18.
M.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

No.

Date

Y. H. H. Well
Lieut. Colonel,
for Major General,
Director of Medical Services.

12 Noon 31st. July, 1918.

CASUALTY CLEARING STATIONS.

BLENDRECQUES. ESQUELBECQ.
 No. 2 Aus: - Sh.36d.NE/F.5.b.9.6. No. 3 Aus: - Sh.27/B.3.a.7.1.
 No. 2 Can: - Sh.27/C.7.b.1.4.
 WATTEN. ARNEKE.
 No.36 - Sh.27a.NE/L.19.c.5.5. x-No.13 - Sh.27/I.19.c.3.5.
 No.64 - Sh.27a.NE/K.24.c.8.4. No.62 - Sh.27/I.19.c.8.3.
 Nr. BERGUES. BOURG nr WISQUES.
 No.10 - Sh.19/U.9.c.Central. @-No.17 - Sh.27a.SE/W.29.a.3.3.
 No.44 - Sh.19/O.20.b.7.7. MAL-ASSESE.
 LONGUENESSE. No.18 - Sh.27a.SE/X.17.d.9.7.
 No.58 - Sh.27a.SE/X.16.b.7.7. MOULLE.
No.11 - Sh.27a.SE/Q.11.c.4.8.

HOSPITALS.

CLERQUES nr LICQUES. ARQUES. BOURG nr WISQUES.
 No. 10 Stationary No.4 Stationary-% Now Zealand Stationary
 Sh.Calais 13/F.3.85.55. Sh.27a.SE/W.29.b.3.8.
 LONGUENESSE.
 No.9 B.R.C.(Duchess of Sutherland's) (% - Closed for
 x - Moving) Sh.27a.SE/X.10.c.2.1. (reception of
 @ - Closed) (Venereal cases.)

MOTOR AMBULANCE CONVOYS.

E-No. 2 (att Army) Sh.27/G.29.c.1.3. No.14 (att XV Corps) RACQUINGHEM
 No. 4 (att II Corps) OOST CAPPEL No.20 (att Army) Nr. St Omer
 (Sh.19/W.19.b.6.8.) @-(Sh.27a.SE/X.12.c.Cent:).)
 @-No. 5 (att Army) WATTEN F.A.N.Y.(att ADMS St Omer)MAL-ASSESE
 (E - Two Sections att: XII Corps.)
 (@ - One Section of each att: X Corps)

ADVANCED DEPOTS OF MEDICAL STORES.

No. 2 BLENDRECQUES No.11 ARNEKE No. 2 Can: ESQUELBECQ

MOBILE LAB. LABORATORIES.

No.1 (Bac) Nr BERGUES(att 10 CCS) No. 8 (Bac) WATTEN (att 64 C.C.S.)
 No.4 (Hyg) BOURG No.11 (Bac)BLENDRECQUES(att 2 Aus:CCS)

MOBILE X-RAY UNITS

No. 3 ESQUELBECQ (att 2 Can: C.C.S) No. 7 ARNEKE (att 62 C.C.S)

OPHTHALMIC CENTRE LONGUENESSE (att 58 C.C.S.)
 MECHANICAL DENTAL CENTRE. LONGUENESSE (att 58 C.C.S.)
 No. 4 MOBILE DENTAL UNIT. ARNEKE (att 62 C.C.S.)

SANITARY SECTIONS.

No.13 (att XIX Corps) No.56 (att Army) MOULLE
 (K.35.d.8.5.Sh.27) No.71 (att Army) RUBROUCK
 No.25 (att II Corps) No.72 (att Army) HEURINGHEM
 (F.29.d.5.9.Sh.27) No.81 (att II Corps) F.11.b.4.3.Sh.27.
 No.42 (att II Corps) No.82 (att X Corps) BAVINCHOVE
 (E.13.c.Cent:Sh.27) No. 2 Austin (att XV Corps)
 No.45 (att XIX Corps) (V.21.b.Cent:Sh.27)
 (I.17.b.2.7.Sh.27) N. 2. (att X Corps) 2.3.a.8.5.Sh.27.
 No.47 (att Army) LUMBRES No.49 (att XV Corps) BLARINGHEM

SANITARY SQUADS.

No.28 POPERINGHE
 No.29 E.13.c.5.9.Sh.27.
 No.38 EBBLINGHEM
 No. 2 ST OMER

RAILHEADS SQUADS.

Nos. 1, 9, 33, 37, 39, 41 & 42
 N.C.O's. and Men distributed to
 Railheads in Army Areas.

H.Q., Second Army.
 31.7.18.
 M.

1ST AUSTRALIAN
 CASUALTY CLEARING
 STATION.

No.

Date

Lieut. Colonel,
 for Major General,
 Director of Medical Services.

D. M. S., Second Army No. 19/236/24.

S E C R E T.

MEDICAL ARRANGEMENTS, SECOND ARMY.

Operation No 25.

1. DISPOSAL OF SICK AND WOUNDED OTHER THAN SPECIAL CASES INDICATED BELOW.

- 11 Corps. 10 & 44 C.C.S's (Walking wounded to 44 C.C.S.,
(during active operations.
- XIX Corps. 3rd. Australian & 2nd Canadian C.C.S's.
(Walking wounded to 3rd Aust. C.C.S.
(during active operations.
- X. Corps As for XIX Corps until C.C.S's at ARNEKE are open.
- XV. Corps 1st & 2nd Australian C.C.S's.
(Walking wounded to No 4 Stationary
(Hospital during active operations.
- VII. Corps. Nearest C.C.S., or Staty. Hosp. Hospitals at
(Reserve) Boulogne or Wimereux may be used if nearer than
Army units.
- A.D.M.S., ST OMER. Nos 18 & 58 C.C.S's and No 9 B.R.C. (Duchess of
Sutherlands Hospital)

2. DISPOSAL OF SPECIAL CASES.

- a. Self inflicted injuries and wounds. 3 Australian C.C.S.
- b. N. Y. D. N. cases 11 Cas. Clg. Stn.
- c. N. Y. D. Gasses and S.I. Gassed 64 " " "
- d. Dysentery cases 13 " " "
- e. Infectious Cases New Zealand Stationary Hospital
(other than Nursing (except Rose Measles & Scabies,
(sisters, Q.M.A.A.C. (treated by Corps arrangements)
(etc. and early cases of Enteric, Diphtheria
and Scarlet fever, to C.C.S's for
Base by first available Ambulance train
- f. Venereal Cases To C.C.S., for transfer to Base
after investigation by PROVOST
BRANCH.
- g. Ophthalmic & Mechanical Dental Cases. 58 C. C. S.
- h. Chinese 11 " " "
- i. Nursing Sisters, Q.M.A.A.C., F.A.N.Y.,
(including infectious Cases) 11 " " "
- j. French Cases (Military) To French hospital at ARNEKE until
closed. Afterwards to nearest
C.C.S.
- French civilians. To Civil Hospital at St. Omer or
nearest C.C.S.

1ST AUSTRALIAN CASUALTY CLEARING STATION.	
No.....	
Date.....	

k. Ear, Nose & Throat cases.

No special arrangements at present.
Lt 58 C.C.S. Capt DICKIE. Specialist

1. Belgians, Civil and Military.

Belgain Ambulance at Chateau COUTHOVE'

3. ADVANCED DEPOSITS OF MEDICAL STORES.

No 2. A. D. M. Stores.	XV Corps. 1 & 2 Aust C.C.S's.
No 3. A. D. M. Stores	4 & 10 Stat: Hosps. and 11 C. C. S.
No 11 A. D. M. Stores	13, 36, 63 and 64 C.C.S's. Second army X-Ray units. (This depot will supply X-Ray Material to all Second Army Medical units.)
No 31 A. D. M. Stores	17, 18 & 58 C.C.S's, 9 B.R.C.S. Hosp, and New Zealand Stat : Hospital.
No 2 Can:A.D.M.Stores.	II, X & XIX Corps, 2 Can, 3 Aust, 10, 44, & 62 C.C.S's. Second Army Mobile Laboratories. All Laboratory equipment, vaccines and sera will be supplied to Second Army Medical Units by this Depot.

Os. C., Medical Units of VII Corps will draw from whichever store is nearest to their unit.

In case of sudden moves, Units should indent on nearest A.D.M.Stores
All A.D.M. Stores will keep a small stock of anti-tetanic serum for use during active operations.

4. MOBILE (BACTERIOLOGICAL) LABORATORIES.

The following Mobile Laboratories are available for use of formations and units indicated :-

No 1. Mobile (Bac) Lab. (att 10 C.C.S.)	II, X, XIX Corps, 2 Can. 3 Aust, 10, 44, & 62 C.C.S's.
No 8 Mobile (Bas) Lab. (att 13 C.C.S.)	11, 13, 36, 63 and 64 C.C.S's.
No 11 Mobile (Bac) Lab. (att 2 Aust C.C.S)	XV Corps. 1 & 2 Aust, 17, 18 & 58 CCS's.
No 4 (HYg) Mobile Lab.	All Army Medical units.

The nearest Mobile Laboratory will be available for use of units of VII Corps.

Headquarters
Second Army.
8th. July, 1918.
M.

F. D. G. HOWELL, Lieut:Col.
for Major General.
Director of Medical Services.



COPY.

APPENDIX

D.M.S., Second Army No. 125/152

C. R. E.

Second Army Troops.

1. It is realised that skilled labour cannot be provided for all the requirements necessitated by the recent moves of Stationary Hospitals and Casualty Clearing Stations.

2. Skilled labour is essential for the erection of Operating Theatres, X-Ray Huts, Bath and Ablution houses, and should be provided whenever possible. Skilled supervision with a minimum of labour only, is required for erection of latrines, cookhouses and the dismantling and re-erection of ward huts.

The unit concerned should be able to provide the necessary labour other than the above.

3. With the exception of Stationary Hospitals, only and Operating Theatre, X-Ray and Huts for accommodation of Sisters and Officers Mess need be erected. Stationary hospitals will require ward huts in addition erected as time and labour permit.

4. It is proposed to form a dump of the surplus huts at No 10 Stationary hospital from which they can be distributed as the need arises to other units (chiefly No 4 Stationary Hospital after move to site near ANDRES.)

5. It is essential that the hutted accommodation should be dismantled early and removed to No 10 Stationary Hospital in order that hutted accommodation will be available for the Sick and Wounded during the winter months.

It is understood that there might be considerable shortage of suitable huts for winter requirements and the necessity for conserving huts already allotted for use of the Medical Service is very necessary.

H.Q., Second Army.
29. 6. 18.
M.

sd. S. Guise Moores,
Major General,
Director of Medical Services.

(2)

O. C.

1 Aust. C. C. S.

The above copy of letter addressed to C.R.E., Second Army Troops, is circulated for information, guidance and action when necessary.

H.Q., Second Army

1. 7. 18
M.

F.D.G. Howell
Lieut-Colonel.
for Major General.
Director of Medical Services.

Copies to:- A.D.M.S., St Omer
Os.C., Stat. Hos.
Os. C., C.S. Stns

Under D.M.S. direct
Administration.



C O P Y.

D.M.S., Second Army No P/ 420/146

1st. Australian C.C.S.

Reference this office No as above dated 28. 4. 18 and
admmendment thereto dated 2.5.18., in regard to Surgical Teams - both
afe hereby cancelled.

In future Surgical Teams for duty in this Army Area or
outside the Army Area will be composed as under:-

A Surgical Team for duty within Army Area or outside Army
Area.

1 Surgeon
1 Sister
1 Batman.

1 Anaesthetist.
2 Operating Room attendants.

H.Q., Second Army.
18. 7. 18.
M.

F. D. G. HOWELL, Lieut-Col
for Major-General.
Director of Medical Services.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

No.....

Date.....

hndy
1ST. AUSTRALIAN CASUALTY CLEARING STATION.MEMO TO MEDICAL OFFICERS.9th. JULY 1918.

TRENCH FEVER :- Trench fever is now a notifiable Infectious Disease.

A recent D.M.S., order 2. 6. 18., requires the isolation of all Trench Fever cases, until they have been deloused.

Up to present date all cases received at this station, since the order came into force, have been already deloused at the Field Ambulance.

In the event of any case arriving un-deloused, the following procedure will be adopted:-

The case will be undressed, bathed and given clean pyjamas in the admitting room, and a note will be made on the Field Medical Card to the effect that the patient has been deloused. He will then be sent to No 2 ward. The clothing will be placed in a sack kept for the purpose in the admitting room, and taken at once to the fumigator.

In the field.

9th. July 1918.

[Signature] Major.
Adj., 1st. Australian C.C.S.

Memo to the Matron, Wardmasters, Sisters and Orderlies

----- in charge of Wards. -----

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CLEAN BLANKETS

To ensure that the greatest possible number of blankets will be kept free from vermin in this Station, the following rules will be strictly adhered to.

1. Cases evacuated lying.

Two blankets only will accompany each patient on his evacuation. These will be taken from the patients bed, and not drawn as hitherto from the blanket store. The remaining blankets used by the patient during his stay in the ward will be at once sent to the fumigator, and new blankets drawn in place of the latter and those sent away.

2. Cases evacuated sitting.

In quiet times the blankets of each patient will be sent to the fumigator after his evacuation, and new ones drawn. In busy periods the same set of blankets must of necessity be used by several different patients, but steps must be taken to ensure that the period of such re-use does not exceed one week. i.e., every blanket in the evacuation sitting ward must be fumigated during busy times at least once a week.

3. In the Remaining Ward all blankets must be fumigated at least once a week.

4. In the Admitting Room the blankets must be fumigated once a month in quiet times, and at least once per week in busy times.

5. In the Pre-operative Ward the blankets of incoming patients need not be changed unless they are grossly dirty or wet, but will accompany the patient to the ward, whence they will be sent to the fumigator.

(a) In quiet times the blankets held in the Pre-op ward will be changed as necessary on non-receiving days.

(b) In busy times steps must be taken to ensure that they are changed at least once per week.

6. In the Theatre or Dressing Room any blankets left behind after a patient has been disposed of, must be put aside and sent to the fumigator as early as possible.

7. In the event of a patient dying all blankets used by the patient will be at once sent to the fumigator and fresh ones drawn.

.....

In the Field

18/7/18

[Handwritten signature]

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.
No.....
Date.....

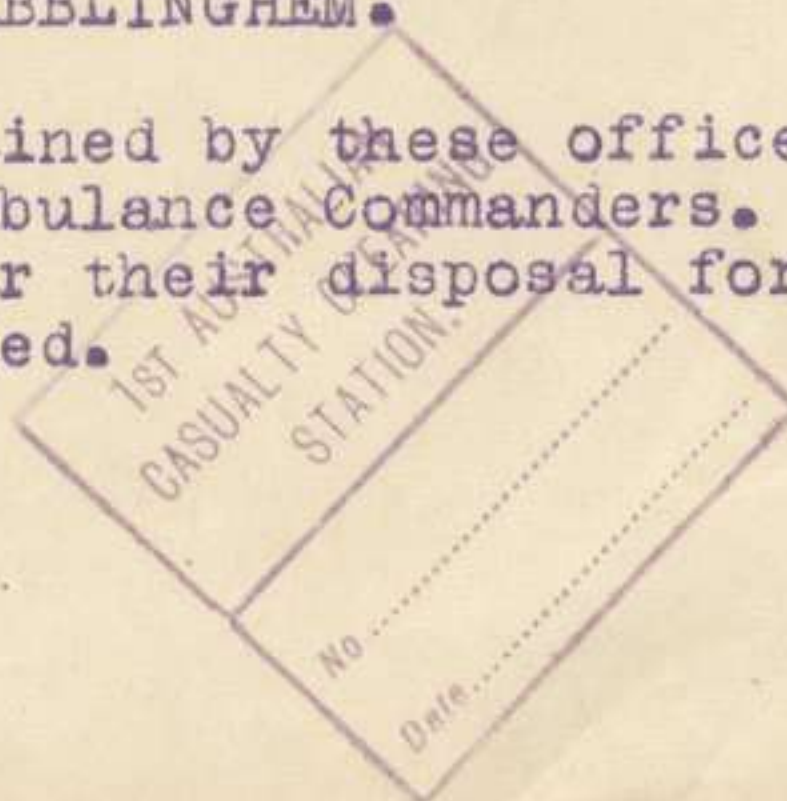
D.M.S., Second Army No. 22/305/61.

D.D.M.S.

Corps.

The following arrangements in connection with Dysentery and Diarrhoea cases will be put into effect forthwith:-

1. Two advanced Army Dysentery Centres, with Bacteriologists attached, will be established at Divisional Rest Stations ~~xx~~ located at HILHOEK and EBBLINGHAM. The Advanced Army Dysentery Centre at HILHOEK will function for the two northern corps and be administered by the D.D.M.S. XIX. Corps and the one at EBBLINGHAM will function for the two Southern Corps and be administered by the D.D.M.S. XV Corps.
2. Accommodation for at least 50 cases with the necessary medical, Ordnance equipment and stores will be provided at each centre and the personnel of one Tent sub-division with a specially selected medical Officer in charge, will be detailed for the duties connected with same by the Administrative Medical Officer concerned. Accommodation will also be provided for the Bacteriologist, and a place set apart for him to carry out his duties.
3. In order to ensure continuity, the personnel detailed in para 2. will not be changed except by direct orders from this office.
4. The following routine procedure will be adopted throughout the Army in connection with Dysentery and Diarrhoea cases.
 - (1) Regimental units. Any case of this nature that does not readily yield to treatment will be despatched to a field Ambulance without delay.
 - (11) Field Ambulances.
 - (a) Cases with blood and mucus in stools will be evacuated to Army Dysentery Centre at (64 C.C.S.) at WATTEN.
 - (b) Moderately severe cases will be sent to respective Advanced Army Dysentery Centres.
 - (c) Mild cases - rectal swabs will be taken and forwarded to respective A.A. Dysentery Centre for bacteriological investigation without delay. pending result, cases will be retained in Field Ambulances. On notification that swabs are positive the cases will be sent to Army Dysentery Centre (64 C.C.S.) if negative, to duty when fit.
 - (111) Advanced Army Dysentery Centres.
 - (a) Swabs from mild cases- Field Ambulances will be notified the result of swab examination as soon as possible.
 - (b) Moderately severe cases. If proved to be positive will be transferred to Army Dysentery Centre (64 C.C.S.) Negative cases will be discharged to duty when fit.
5. The Army Dysentery Centre at 64 C.C.S., will function on the lines indicated in para 4. for all units in the back areas.
6. Capt. A. STOKES, D.S.O., of No. 1 Mobile (bac) laboratory will be detailed for duty with the A.A.D.C. at HILHOEK and Capt. J.W. McLEOD of No. 8 Mobile (bac) Laboratory, at EBBLINGHAM.
7. The closest liason will be maintained by these officers with Administrative Medical Officers and Ambulance Commanders.
An Ambulance car will be placed at their disposal for this purpose by Administrative Headquarters concerned.



APPENDIX 7

-2-

8. Records and returns.

- (1) Field Ambulances will record all cases sent to A.A.D. Centres as transferred to the designation of the Field Ambulance, functioning the rest station with Advanced Army Dysentery Centre entered in brackets, e.g. "by 69 Field Ambulance(Advanced Army Dysentery Centre) HILHOEK". Wires should be sent to this office daily by Officers i/c. centres showing number of cases in hospital at 4. p.m.
- (11) Advanced Army Dysentery Centres will inform units concerned, through O.C., Field Ambulance functioning rest station, the disposal of cases admitted. A copy ~~of~~ will be sent to Field Ambulance from which the case was transferred.
- (111) Separate A.&D. books will be kept and maintained by A.A.D.C's. ~~for each unit and for each day~~ for record purposes. These books will in case of a change of personnel.
- (iv) A weekly return will be rendered to this office by A.A.D.C's for week ending 12 midnight on Saturdays of the number of cases admitted, by units, with their disposal.
- (v) The A.A.D.C will notify this office by wire of any sudden large increase of cases in any particular unit.

Headquarters,
Second Army.
29/7/18.

Signed F.W.G. HOWELL Lieut-Col.
for Major General.
Director of Medical Services.

APPENDIX 8

SECRETD.M.S., SECOND ARMY No. 19/236/24.

MEDICAL ARRANGEMENTS, SECOND ARMY

Operation No. 25.A.

Para 3., Operation No. 25 is cancelled and the following substituted, which will take effect from 29th. July 1918.:-

ADVANCED DEPOTS OF MEDICAL STORES

Medical formations and units will be supplied by A.D.M. Stores as under:-

- No. 2 A.D.M. Stores - VII Corps, 11.17.18, 58, 1 Aust. 2 Aust. 36 & 64 C.C.S's. 4, 10 & New Zealand Stationary Hospitals, 9 B.R.C. Hospital. This depot will supply Oxygen to all Second Army Medical Units.
- No. 11 A.D.M. Stores- X & XV Corps, 13 & 62 C.C.S's. This depot will supply all X Ray material to all Second Army Medical Units.
- No. 2 Can. A.D.M Stores 11 & XIX Corps. 10, 44, 2 Can. & 3 Aust. C.C.S's. Second Army Mobile Laboratories. This depot will supply Laboratory Equipment, Vaccines & Sera to all Second Army Medical Units.

Headquarters,
Second Army.
28/7/18.

Signed F.W.G. HOWELL
Lieut-Colonel.
for Major General.
Director of Medical Services.



W.17
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D.M.S. , Second Army No. 19/236/25.

APPENDIX 9

MEDICAL ARRANGEMENTS SECOND ARMY.

Operation No. 26

SECOND ARMY OPHTHALMIC CENTRE.

1. The Second Army Ophthalmic Centre is attached to 58. C.C.S. at LONGUENESSE.
2. All cases of defective vision will be sent to this centre under arrangements made by D.D,s.M.S.
3. The days on which cases may be sent are as follows:-

Monday	11 Corps.	Thursday	XV Corps
Tuesday	VII Corps.	Friday	XLX Corps
Wednesday	X Corps.		
4. All cases, other than urgent, must arrive at the Ophthalmic Centre before 9.30 a.m. on the day allotted. They will be returned to the unit which sent them, by the cars that bring them, on the same day.
5. Nominal rolls will accompany each batch of patients. Every man will be in possession of his A.B. 64 and the result of the examination will be entered therein.
6. Medical Officers sending cases for examination will ascertain from the patient's A.B. 64 that he has not been previously examined and pronounced fit for duty without glasses.
7. In dealing with men whose glasses are broken, the A.B. 64 should be examined and if details are recorded therein, it is sufficient to send a copy of the prescription to the Ophthalmic Centre, together with the broken glasses, which will be prepared and returned.
8. Officers wishing to consult the Ophthalmic Surgeon should do so by appointment through D.D,S.M.S. or A.D,s.M.S..Concerned.
9. Cases which are considered by the Ophthalmic Surgeon as unfit for duty in the front line owing to Ophthalmic defects, will be returned to their divisions.
The ophthalmic Surgeon will notify the A.D.M.S. of the division concerned giving his reasons for this conclusion.
10. Cases of wounds or injuries affecting the eye should be sent at once to the Ophthalmic Centre . They must not be held up in medical units unless the patient is unfit to move, in which case the Ophthalmic Center should be notified by wire and an officer will be sent to see the case.
11. All previous orders on this subject are hereby cancelled.
12. The above arrangements will come into force forthwith.

Headquarters,
Second Army.
21/7/18.

Signed F.W.G. HOWELL, Lieut-Col.
for Major General.
Director of Medical Services.

P.T.O.



1st. AUSTRALIAN CASUALTY CLEARING STATION

10

To/

D.M.S., A.I.F.
Administrative Hqrs.
LONDON.

Attached please find reports for July, 1918. These reports are so full that little is left for me to say.

The general working of the unit has been very satisfactory and during the month the D.M.S., 2nd. Army congratulated me on the good work the unit is doing.

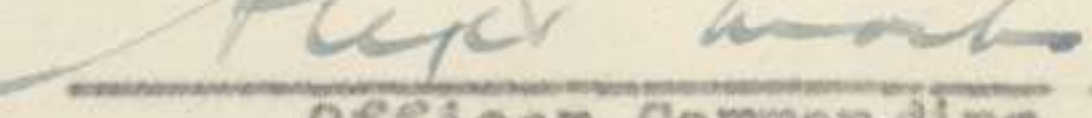
The removal of the Australian Division from the area will be a loss as the unit being a small one feels somewhat out of things when all alone and not working with Australian Troops.

I think special note should be taken of the Quartermasters remarks re. the delousing of clothing. There seems to me to be too much decentralization about Salvage work necessitating more labour and the use of more material.

A Hut is being erected for resuscitation and it is hoped to provide a small annex 12 ft. x 12 ft. as a Transfusion Theatre necessitating less moving of the shocked patient and saving Theatre accomodation. Also it will I hope be possible to arrange heating in such a way as to use the hot air scheme we tried at Outtersteene and which promised so much.

In the Field

8th. August 1918.


Lieut-Colonel
Officer Commanding
1st. Australian Casualty Clearing Station



D. M. S.

A. I. B.

APPENDIX

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I have to report that the month has been one of very steady work at this station.

Cases have been received on alternate days throughout and practically every day has seen an evacuation to Base via BLENDÉCQUES and ST OMER.

The daily admissions showed a general increase on the previous month.

The cases were received from the 2nd Army formations and after 13. 7. 18 from 11th. Corps (5th. Army) The lines of evacuation to C.C.S.'s are fairly long, averaging about 20 miles at least, from both Army formations. The 11th. Corps cases came part of the way by canal to AIRE and thence by ambulance cars to this station. 2nd Army cases came by car from the Ambulances direct. The average time of admission to C.C.S., after being wounded is 4 hours from 2nd Army formations in the line. The ordinary admissions were easily capable of being dealt with by the staff, and placed no strain on the accommodation.

On 19. 7. 18. warning was received that a large number of wounded might be expected from 9th. Division, following an attack on METREN.

The wounded began to arrive at midday, and 150 cases were received up to 3 pm. No 2 Aust. C.C.S., was then asked to receive and the next 50 cases were switched on to them. They diverted at 50 and this station took in another 50 and asked that No 2 might this time take in up to 150.

As their accommodation was rather strained owing to an insufficient evacuation, D. M. S. was asked for an evacuation, which was immediately arranged, and the 2nd., were able to take up to the number asked. No 18 C.C.S., and 9 B.R.C Hospital were also diverted to, to ease the pressure.

The cases received at this station during the 24 hours 19/20th. were Officers 13 Other ranks 256 Prisoners of War, Officers 1 other ranks 31.

In any period of heavy fighting, the need of a third C.C.S., to assist in taking in seriously wounded cases will be felt very much in this group. (1st and 2nd. Aust. C.C.S.'s.)

It was pointed out in a previous report, that it would be a great boon, as far as saving wastage in fighting personnel is concerned, if some collecting depot could be formed close to C.C.S., groups, to which many lightly wounded and stragglers could be sent, for return to duty within a few days, this would apply particularly to groups receiving only walking wounded.

One's experience in receiving a large number of sick, points to the same need in quiet times. The majority of the cases received during the month have been sick, and a large percentage of these have been of a very slight character, really rest station cases.

If these arrive at a C.C.S., there is no alternative but to send the bulk of them on, if the station is to be kept constantly ready for any emergency.

At this C.C.S., one ward accommodating 80 patients, is given over to slight cases remaining, this is constantly full and overflowing. A Marquee has been erected to accommodate 39, and in addition there are at the present moment, 22 cases marked to remain, in one of the evacuation wards.

These are all cases of so slight a character that one could not in conscience evacuate them. But at the same time one has to evacuate many cases which would be well with a fortnights careful rest station treatment.

The wider application of the Corps Rest Station system, would seem to be the solution of the problem, or failing that the establishing of Convalescent camps working in conjunction with C.C.S.'s.

The Influenza epidemic has practically died out in the unit, and the admissions have been very few, except on 23. 7. 18, when a noticeably number of cases were admitted from the 1st. K. O. S. B.

P. U. O. on the other hand has increased, a good proportion

THE AUSTRALIAN
CASUALTY CLEARING
STATION.

No.

of the cases admitted under this diagnosis were undoubtedly Trench Fever. In this connection, attention may be called to a point of great practical importance. Trench Fever is now a notifiable infectious disease. All cases on diagnosis have to be isolated until deloused and notified on Army Form W 3110. It follows that cases of this disease allowed to remain in Field ambulances Rest Stations C.C.S.'s, or to travel down the L of C., undeloused and unnotified, under a diagnosis of P.U.O., must help enormously to spread the disease and render valueless a great part of the effort being made to combat it. The majority of the cases of P.U.O. received at this station, and with but few exceptions, all those whose diagnosis were changed to Trench fever, were admitted as "Walking" cases they were wearing the clothing in which they had become casualties, and in many cases had not had a bath for a fortnight or three weeks, this means that they ~~were~~ vermin infested and therefore able to spread the disease.

The attention of the Consulting Physician, 2nd. Army was called to this aspect of the problem and two cases admitted as P.U.O., and diagnosed Trench Fever in the admitting room, were shown him. The D.M.S., has now issued a circular (attached) calling attention to the necessity for care in diagnosis.

The procedure adopted when undeloused Trench Fever or Suspect P.U.O. cases are admitted to this station, and also steps taken to ensure a supply of clean blankets in the wards, are described in the attached copies of orders issued to Medical Officers, the Matron and Nursing Staffs. 147 cases of P.U.O., were admitted to the station and 12 of these or 8% were diagnosed Trench Fever in the Admitting Room, deloused and notified, in addition a large number of the cases were deloused, bathed, given pyjamas and their clothing fumigated on the chance that they might prove to be Trench fever.

The lice problem being largely associated with that of combating Trench fever, presents another aspect which is beginning to rouse attention. A very large amount of patients clothing and equipment, and most of it lice infested passes through a C.C.S., pack-store to be bagged and sent to salvage. There is no possibility with the ordinary C.C.S., disinfecting equipment (1 Thresh) of delousing all these articles and thus rendering their handling of them quite harmless at Salvage dumps, Laundries etc.

A proposal has been put forward by the D.A.D. M. S. Sanitation, to establish a disinfestor at this station to deal with them before they are sorted and bulked.

The disadvantage of this is fairly obvious. The clothing etc so disinfested here is sooner or later mixed with untreated articles and become more or less re-infested as badly as ever.

To establish plants at every C.C.S., would obviate this disadvantage, and yet be open to all the objections involved in the large amount of material required to build plants at each C.C.S., (there are 18 C.C.S.'s General and Stationary Hospitals in 2nd Army alone) the fuel and personnel necessary to run and look after them, as well as the interference with C.C.S., mobility.

I would appear a much more desirable plan to have large plants at Railhead, Salvage dumps, to deal with this material in bulk, before its dispatch to the base.

A certain amount of Dysentery is prevalent in the formations sending sick to this station, in the War Diary Appendices will be found a copy of the instructions issued to Corps by D.M.S., with a view to combating it.

A feature of the admissions has been the comparatively large number of Mental cases received. II. One of these was rediagnosed N.Y.D.N., and transferred to 11 C.C.S., (Special Centre) and another is still under observation at this C.C.S., Mention may be made of the delay caused by the failure of many field units to forward with cases of this description the necessary papers, explicitly laid down in D.G.M.S., instructions.

There has been an increase of Gas cases admitted. 30 were received on 31. 7. 18.

1st AUSTRALIAN
CASUALTY CLEARING
STATION.

In the last report mention was made of the surgical team personnel as laid down for teams detached within and outside the 2nd Army, during this month arrangements have been altered and a Surgical Team whether for duty within or without this Army is constituted as follows, 1 Surgeon, 1 Anaesthetist, 1 Sister, 2 Theatre orderlies and 1 Batman. There have been several changes in the attached teams during the month:-

At the beginning of the month the attached teams were:-

Lt-Col. FIASCHI, and Capt MAHER, 3rd. A. G. H., Major W. MEYER and Major G. MARSHALL, 17 C.C.S., Captain BOSTOCK and Captain MARR, 17. C.C.S., on 3. 7. 18. Captain MAHER, was evacuated sick and replaced by Major WHITEMAN, 3 A.G.H. on 7. 7. 18. on the 18. 7. 18 the 2 teams from 17 C.C.S., were replaced by Captains MC MULLEN and Lieut PENNEFATHER, 54 C.C.S., and Captains CAMPBELL and NICHOLSON, No 8 C.C.S., attached 54 C.C.S.. On 26. 7. 18 Capt Mc MULLEN proceeded on leave and was replaced by Major WORTHINGTON, Surgical Specialist from 54 C.C.S.. On 30. 7. 18 the two Surgical teams from 54 C.C.S., were recalled to 5th Army, and replaced by Capt. CAMPS and Capt MACFARLANE from 51 C.C.S.

The Lady Anaesthetists have been very useful, not only as anaesthetists, but in relieving M.O's for other duties. Majors BELL and CHAMPION and Capt. BARTON were operating with lady anaesthetists, relieving 3 officers, Capt. HAIR, Capt CLARK and Capt. COWEN, for Chest work, general ward and Dressing Room work, respectively.

A/Sister STEWART-RICHARDSON, proceeded on leave during the month, and it is feared that she will not be left with this station on her return. She proved a very capable anaesthetist.

Sisters WILLIAMS, NICHOLAS and PIERREPOINT all T.F.N.S., joined from 54 General Hospital on 30. 7. 18., as partially trained anaesthetists, and are proving very satisfactory. It cannot be too stressed the saving this arrangement makes in Medical Officers. The sphere of utility of the 3 M.O's thus relieved, is very greatly increased and much work which previously had to be but scantily done is now capable of being methodically and fully dealt with.

The unit is greatly indebted to Capt. A.R. WELLMAN, A.D.S., for his interest in the Gas and Oxygen anaesthesia apparatus.

He has put together an apparatus, modelled on the Coxeter, which has proved extremely useful. A Coxeter apparatus has also been supplied to this C.C.S., during the month.

The Chemical Adviser to 2nd Army has been active during the month. At his request the number of Gas mask drills and parades has been increased from 1 per month to 1 per week.

Capt. CLARKE, Corp. HUTTON and L/Corp BROADBENT were detailed under instructions from D.M.S., to 2nd Army Gas School for a 4 days course.

It is proposed by the Chemical Adviser to establish at each C.C.S., or group of C.C.S.'s, a Gas Test where all gas masks and helmets of all men being returned to duty will be tested prior to their discharge.

Arrangements have been made for the tent for 1st. and 2nd C.C.S.'s to be erected in the 2nd A.C.C.S. area, where the N.C.O's and Officers who attended the gas school will superintend the testing as above. A lecture on Gas was given by the Chemical adviser to members of the unit on 26. 7. 18.

On the morning of July 11th., the cash-box containing over 2000 francs, made up of Imprest Account, Sisters Mess Allowance, and monies left over from pay day on 10. 7. 18, was removed from the orderly room, by some person or persons unknown, up to the present date undetected. A small opening was made, with a tin opener in the lid of the cash box (a large stationery box was used for this purpose) and the contents rifled.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

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No papers were taken or destroyed, but all monies were adstract ed'. The theft was reported at about 6-30 am., and steps taken to find the box and any trace possible of the thief or thieves.

A muster parade was held at which every man in camp the previous night was accounted for. A search party was told off to search for the box, which was found just outside the camp area, lying wrapped in a blanket under a hedge. The A.P.M. was communicated with and a detective arrived to take charge of the case.

A court of enquiry was held on the following day and the finding is still under consideration at Headquarters.

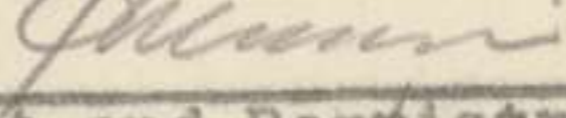
As a result of investigations by a finger print expert, an arrest was made on 16. 7. 18. but nothing was proved against the man and he was released. Up to the present no light has been thrown on the matter, as to who took the money and how it was disposed of.

During the month Lieut-Colonel A. H. MARKS, D.S.O., the Officer Commanding was decorated with the French Croix de Guerre in recognition of his services in connection with the reception and treatment of French wounded at this C.C.S., in April.

Word has been received from records officer that No 2576 Private B. R. COSGROVE, reported missing since April 12th 1918. from this unit, is now a prisoner of war in German hands. It will be recalled that this man was despatched by the O. C., from HONDEGHEM to order the withdrawal of the C.C.S., holding party at OUTERSTEENE. The latter arrived at HONDEGHEM shortly after his departure, and had seen nothing of him and no further word being received nor any trace found of him in the various C.C.S.'s, of the Army, he was reported missing.

Appended is a chart showing the principal diseases for the month.

- 2 Return showing admissions and disposal of Sick and Wounded.
- 3 Orders issued in the unit with reference to Trench Fever and fumigating blankets.
- 4 Photo and description of apparatus designed by Capt A. R. WELLMAN for administration of Gas and Oxygen anaesthesia.
- 5 Memo from D.M.S., calling attention to need for careful diagnosis in P.U.O., conditions.


Major.
Adjutant and Registrar,
1st. Australian Cas. Clg. Station.



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1st. AUSTRALIAN CASUALTY CLEARING STATION.

RETURN SHOWING PRINCIPAL DISEASES ADMITTED DURING MONTH OF JULY 1918.

1.			
2.			
3.			I.C.T. 301.
4.		Sprains, fractures, contusions.	204.
5.			P.U.O. 147.
6.		Venereal Disease	92.
7.		Debility	73.
8.		Cardiac Disease	68.
9.		Rheumatism and Myalgia	62.
10.		Synovitis of joints	53.
11.		Influenza	50.
12.		Tonsillitis etc.	49.
13.		Hernia	39.
13.		Diarrhoea	38.
14.		Otitis Media	34.
15.		Haemorrhoids	34.
16.		Appendicitis	33.
17.		Gastritis	32.
18.		Pleurisy	21.
19.		Trench fever	19.
20.		Broncho Pneumonia	17.
21.		Nephritis	15.
22.		V. Veins	12.
23.		Conjunctivitis	11.
24.		Scabies	7.
		? T. B.	7.
		Jaundice	5.
		Malaria	4.

1st AUSTRALIAN
CASUALTY CLEARING
STATION.

No.....

Date.....

Phum Major.
Adjutant, 1st. Australian C.C.S.

2

1st. AUSTRALIAN CASUALTY CLEARING STATIONReturn for month Ending 31st. July, 1918.

British - All admissions etc.	Officers		Other ranks	
	S	W	S	W
Remained (last day of preceeding month)	10	3	88	99
Admitted (during month)	67	58	1539	938
Transferred from other C.C.Stns.			17	
Died (during month)		2	6	50
Transferred (during month)				
to other C.C.Stns.	4		61	32
to Rest Stations				
to Base	59	49	1320	782
Discharged to Duty (during month)	4	2	57	28
Remaining (last day of month)(midnight)	10	8	220	145

Remained 30th. June German O'Rs. wounded 15
 Admitted German Off. 1. O'Rs. 43 wounded
 Evacuated to Base German O'Rs. 50 wounded
 Died German O'Rs. wounded 5
 Remaining German Off. wounded 1 O'Rs. wounded 3.
 Admitted American O'Rs. sick 1. wounded 1.
 Discharged to Duty American O'Rs. wounded 1.
 Admitted Indian O'Rs. sick 2.
 Admitted Cape Boys sick 2.
 Discharged to Duty Cape Boys sick 1.
 Evacuated to Base Cape Boys sick 1.
 Americans Evacuated to Base sick 1.



[Signature]
Adj. 1st. Aust. C. C. S.

Major

1st. AUSTRALIAN CASUALTY CLEARING STATION 3MEMO TO MEDICAL OFFICERS9th. JULY 1918.

TRENCH FEVER:- Trench Fever is now a notifiable Infectious Disease

A recent D.M.S., order 2/6/18., requires the isolation of all Trench Fever cases, until they have been deloused.

Up to the present date all cases received at this Station since the order came into force, have been already deloused at the Field Ambulance.

In the event of any cases arriving un-deloused, the following presedure will be adopted:-

The case will be undressed, bathed and given clean pyjamas in the admitting room, and a note will be made on the Field Medical Card to the effect that the patient has been deloused. He will then be sent to No. 2. ward. The clothing will be placed in a sack kept for the purpose in the admitting room, and taken at once to the fumigator.

In the Field
9th. July, 1918.

Major
Adjt. 1st. Aust. C. C. S.

1ST AUSTRALIAN CASUALTY CLEARING STATION.
No.
Date.

1ST AUSTRALIAN CASUALTY CLEARING STATION.

Memo to the Matron, Wardsmasters, Sisters and Orderlies

-----in charge of wards.-----

CLEAN BLANKETS.

To ensure that the greatest possible number of blankets will be kept free from vermin in this station, the following Rules will be strictly adhered to.

1. Cases evacuated lying.

Two blankets only will accompany each patient on his evacuation. These will be taken from the patient's bed, and not be drawn as hitherto from the blanket store. The remaining blankets used by the patient during his stay in the ward will be at once sent to the fumigator, and new blankets drawn in place of the latter and those sent away.

2. Cases evacuated sitting.

In quiet times the blankets of each patient will be sent to the fumigator after his evacuation, and new ones drawn. In busy periods the same set of blankets must of necessity be used by several different patients, but steps must be taken to ensure that the period of such re-use does not exceed one week i.e., every blanket in the evacuation sitting ward must be fumigated during busy times at least once per week.

3. In the Remaining Ward all blankets must be fumigated at least once a week.4. In the Admitting Room the blankets must be fumigated once a month in quiet times, and at least once per week in busy times.5. In the Pre-Operative Ward the blankets of incoming patients need not be changed unless they are grossly dirty or wet, but will accompany the patient to the ward, whence they will be sent to the fumigator.

(a) In quiet times the blankets held in the "Pre-Op" ward will be changed as necessary on non-receiving days.

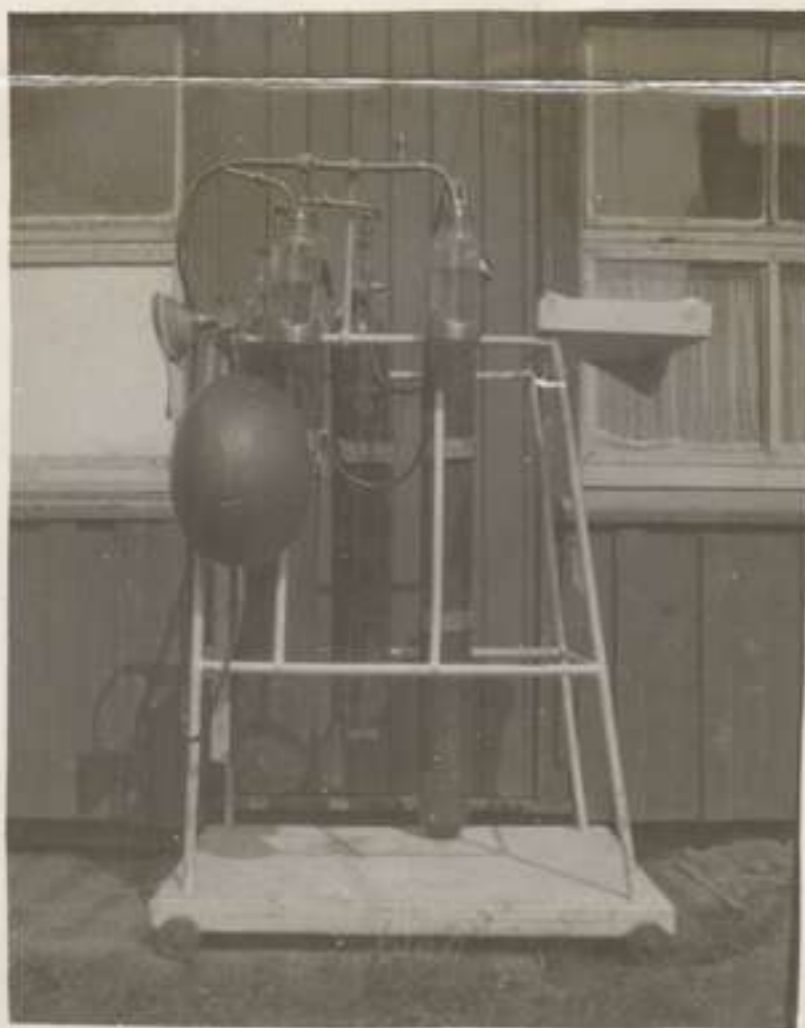
(b) In busy times steps must be taken to ensure that they are changed at least once per week.

6. In the Theatre or Dressing Room any blankets left behind after a patient has been disposed of, must be put aside and sent to the fumigator as early as possible.

7. In the event of a patient dying all blankets used by the patient will be at once sent to the fumigator and fresh ones drawn.

In the field.
18/7/18.

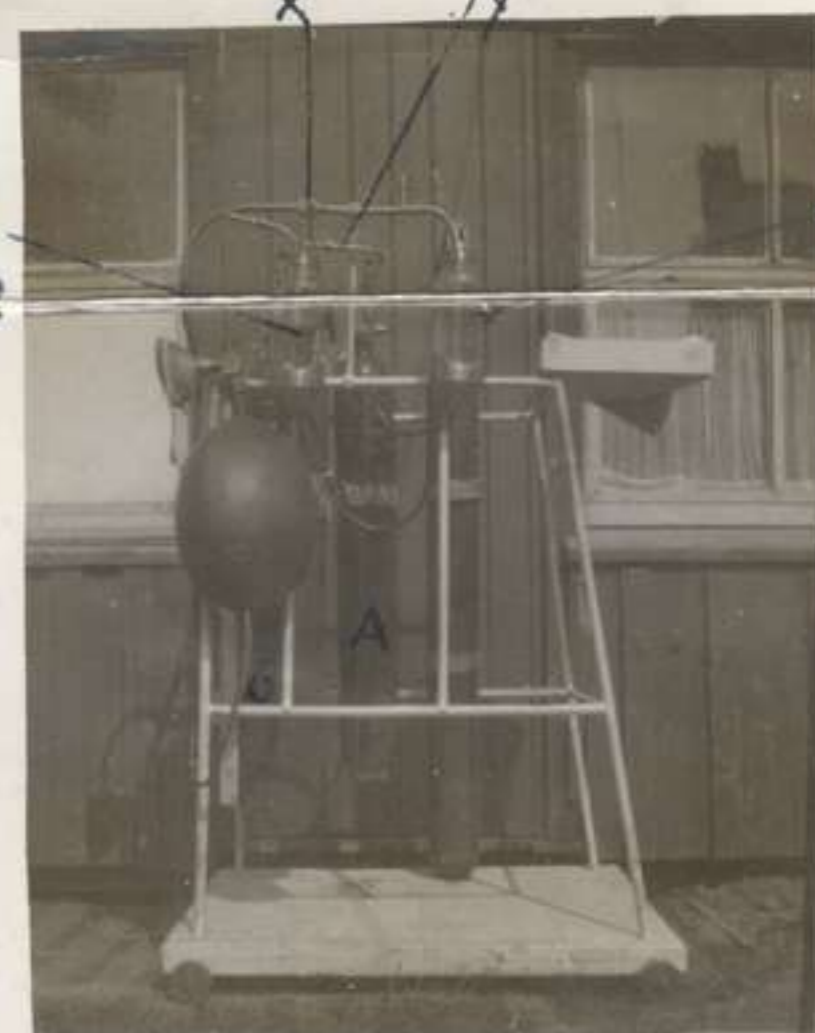




Pi
AUSTRALIAN CASUALTY
CLEARING STATION
10
10th. Aug. 1918

APPENDIX

40



Herewith please a short description with photographs, of an apparatus for administering $N_2O + E$, which I recently constructed with the aid of a motor transport workshop.

This apparatus has been in continual use in the Operating Theatre of the 1st. Australian Casualty Clearing Station.

The advantages of using an apparatus of this kind were impressed upon me by the wonderful results obtained by a visiting Surgical Team who had in their possession a Coxeter $N_2O + O$ outfit.

As this C.C.S. was unable to procure a Coxeter or similar apparatus, I determined to construct one on the same lines, despite the difficulties of field conditions, with the result shown in the accompanying photograph.

My apparatus is necessarily somewhat crude in appearance, but it embodies all the principles, with in my opinion a few improvements, of the Coxeter outfit and has worked with complete success.

The component parts of this apparatus were, without exception salvaged from various salvage dumps.

As can be seen from the photograph, the glass mixing reservoir and ether bottles, are ordinary wide neck preserved fruit jars, easy to replace in case of breakage. The copper piping and taps were originally parts of aeroplanes which have completed their war service, while the framework and foundation, were parts of the tail of a Fokker Triplane Fuselage whose active service was abruptly terminated by the R.A.F.

The apparatus is very simple in manipulation, each gas being separately regulated to increase or lessen the flow and so mix the gases in any desired proportion with perfect ease and assurance.

The supply of gas is carried from the cylinders A. & B. through $\frac{1}{4}$ " copper pipes into bottle No. 1., which is the mixing chamber. There are six holes near the lower end of these pipes, which are immersed in water to about $\frac{1}{2}$ " above the uppermost hole.

The supply of each gas is gauged by the number of holes through which they bubble into the water. The gasses then rise to the upper part of the bottle, where they commingle and pass along the $\frac{1}{2}$ " copper pipe to a single rubber gas bag reservoir, thence through an ordinary N_2O . face mask to the patient. Thus the proportion of gas used is easily seen and regulated with perfect accuracy.

Bottle No. 2 contains ether which may be used in conjunction with N_2O and O ., separately or mixed, by operating tap X, which diverts the flow of gas from the mixing chamber through the ether, thence back to the main $\frac{1}{2}$ " copper pipe, proceeding to the patient as above.

The emergency pipe Y enables Oxygen and Ether to be given without delay, independently of bottle No. 1, should anything go wrong in the mixing chamber during a long operation.

This apparatus as it stands, may be used with complete success for administering the following anaesthetics:-

$(O + E)$, (N_2O) , $(N_2O + O)$, $(N_2O + E)$, $(N_2O + O + E)$
also for giving Oxygen only which is often very beneficial at the termination of a long operation.

$O + E$.
 N_2O .
 $N_2O + O$.
 $N_2O + E$.
 $N_2O + O + E$.

Arthur Wellman

1st. Australian C. C. S.



1st. AUSTRALIAN CASUALTY CLEARING STATION.REPORT OF SURGEON SPECIALISTFOR MONTH OF JULY 1918.To/
O. G.,

368

1st. Australian C.C.S.

During July the C.C.S., has acted as a "First Line" C.C.S., receiving all classes of wounded, including a number of severely wounded patients. The surgical work has been carried out by the surgeons of this C.C.S., aided by various attached teams.

GAS AND OXYGEN ANAESTHESIA:- During the earlier part of the month, Major G. MARSHALL, R.A.M.C., worked as an Anaesthetist with his Coxeter Sight Feed apparatus and a few days before the end of the month we had issued to us by the Army a similar apparatus. In the interval while we were without the Coxeter, we have been able to continue the use of Gas and Oxygen Anaesthesia, owing to the fact that Capt. WELLMAN, A.A.M.C., has constructed a modified Coxeter apparatus, which has worked very effectively.

TRANSFUSION OF BLOOD:- This has been frequently carried out with excellent results in the majority of cases. The donors have been grouped and only those belonging to Group 4, - the universal donor group - have been used during the month. Whole Blood, transfused by the paraffined glass flask method, has been used in almost all cases. Lieut-Col FIASCHI used Citrated blood on one occasion.

The value of transfusion in lessening the time taken to resuscitate cases of severe shock-haemorrhage has been very apparent, and when used in connection with Gas and Oxygen anaesthesia the period elapsing before operation is considerably shortened in comparison with the period which would be necessary if another general anaesthetic had to be used. This shortening of the period before operation has, undoubtedly, an important bearing on the development of Gas Gangrene in these cases.

WOUNDS OF THE CHEST:- During the period 17. 6. 18 to 31. 7. 18. 90 cases have been admitted and of these seven have died - in each fatal case other injuries have been present. Captain J. MANNING-HAIR, A.A.M.C., has been responsible for the general care of the Chest ward.

DRESSING ROOM:- 162 Minor operations under ~~general~~ anaesthesia have been done, and a total of 1512 dressings has been reached during the month.

X-RAY:- Major C.E. MARSHALL, A.A.M.C., has rendered efficient aid with the X-ray department. Localisation of foreign bodies in many cases lessens considerably the length of time of operation and is indispensable in almost all cases of wounds of abdomen, head and chest.

ANTI-GAS GANGRENE SERUM:- Cases have been admitted who have had an injection of Anti-Gas-Gangrene Serum and an investigation is being carried out in the Army to which we belong as to the value of this serum in the treatment and prevention of this disease.

19 patients have been admitted suffering from Gas-Gangrene, and of these 11 have been injected with A.T.S. + Anti Welchii serum, of which 4 proved fatal. 8 have been injected with A.T.S. alone and of these 3 had a fatal ending.

SURGICAL WORK:- The surgical staff has been able to efficiently deal with the wounded with the exception of one short rush of work, when the number of cases requiring operation was somewhat in excess of what could be rapidly dealt with, the result being that some cases waited longer than usual for operation.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

It would seem advisable that some arrangement be made so that in "moderate rushes" the cases requiring operation be more evenly distributed among the C.C.S.'s of a group in order to shorten the "waiting" time of patients requiring operation.

Additional transfusion teams in Battle Crises' would also free at least one surgical team.

The surgical work has been carried out by Lt-Col. P. Fiaschi, A.A.M.C., Majors MEYER and WORTHINGTON, Captains BOSTOCK, Mc MULLEN, CAMPBELL and CAMPS, R.A.M.C., Major CHAMPION, Captain BARTON and T/Major BELL, A.A.M.C.

Appended is a list of operations for July 1918.

George Bue T/Major.
Surgical Specialist
1st. Australian Cas. Ctg. Station.

LIST OF OPERATIONS.

Ligation of arteries and veins:-

Brachial Artery	3.
Radial	3.
Axillary Vein	1.
Femoral Artery	2.
Postr. Tibial	3.
Sup. Gluteal	1.
Dorsalis Scapulae	1.
	<u>14.</u>

Joints:-

Shoulder with fracture	4.
Elbow " "	4.
Wrist " "	1.
Hip " "	1.
Knee " "	11.
Ankle " "	3.
Knee without " "	5.
	<u>29</u>

Fractures :-

Skull with penet of Dura	15.
" without " " "	12
Superior Maxilla	3
Inferior " "	4
Clavicle	1
Scapula	2
Scapula & Clavicle	1
Sternum	1
Humerus	16
Ulna	17.
Radius	6
Ulna and radius	1
Carpus	2
Metacarpal	9
Spine	3
Sacrum	1
Sacrum & Coccyx	1
Os Innominata	1
Ilium	1
Femur	18
Tibia	12
Fibula	7
Tibia and Fibula	3
Tarsus	6
Metatarsal	1
	<u>145.</u>

Enucleation Eye 7
Transfusion of Blood 32.

Total all classes 616

Amputations :-

Arm	12.
Disarticulation of Shoulder	2.
Forearm	4.
Fingers	6.
Thigh	14.
Leg	7.
Symes	1.
Toes	2.
	<u>48</u>

Miscellaneous Civil Operations:-

Appendectomy	5.
Acute Intest. Obstr.	1.
Strangulated hernia	1.
Periostitis Humerus	2.
Sequestrectomy	1.
Tracheotomy	1.
Osteomyelitis Sternum	1.
Other minor operations	25.
	<u>40.</u>

Operations of soft tissues	273.
Penetrating wound of chest	10.
" " Abdomen	13.
" " of chest & abdomen	4.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

1st. AUSTRALIAN CASUALTY CLEARING STATION"X" Ray Report for month of July, 1918.

The O.C.,
1st. Australian Casualty Clearing Station.

During the month of July the following examinations
have been made:-

Head	74	
Chest	75	
Abdomen	51	
Other parts	441.	Total 641

The apparatus has been working very satisfactorily.

In the Field
5/8/18.

W. Marshall Major, AAMC
Radiologist 1st. Aust. C. C. S.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

RESUME of the Q.M.Dept.for the month, July, 1918.

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I wish to bring under your notice, that the majority of the regimental clothing and underwear of patients, received at this Station and sent to salvage, is infested with vermin. To destroy any of this clothing would be an absolute criminal waste. I would suggest that a disinfector be erected at the Ordnance Salvage Dump to deal with all clothing received from C.C.S's. and other sources.

A hospital, Nissen hut was dismantled at the late site of the No.15 C.C.S. and is now awaiting re-erection here.

During the month the following waste was saved and returned to Base :-

Soiled wool and dressings	105 lbs.
Tin sheeting	96 lbs.
Hessian packing	308 lbs.
Paper & cardboard	736 lbs.
Candle ends & pieces soap	160 lbs.

STEWARD'S STORE.

Rations :- These on the whole have been sufficient and of good quality.

Fuel :- Supplies have been maintained.

Diets :- The following diets were issued to the cookhouse:-

	Fluid	Soft	Full	
July 1-15	-	3249	6544	
July 16-31.	236	4866	8853	Total.
	236	8115	15397	23748

LINEN & CLOTHING STORE.

All patients returning to duty have been fully equipped before marching out.

Laundry:- 28742 pieces were washed by the Army Laundry, during the month.

Bootmaker:- The following boots were repaired during the month:-

Heeled	Soled
34	50

PACK STORE. :-

The work of this department is excellent.

Salvage:- The following articles were salvaged and handed over to the O.O. during the month.

Boots, ankle	prs. 917	Razors	25
" "	odd 40	Rifles	800
" German	prs. 5	Bayonets &	
Leggings	" 4	scabbards	682
Jerkins, leather	13	Entrench. tools	
Jackets S.D.	977	helves	183
Trousers S.D.	360	blades	110
Breeches M.S. & D.S.	422	Steel helmets	1331
Kilts	76	Packs	288
Great coats	772	Haversacks	740
Puttees	prs. 706	Web equipt. sets	760
Caps & hats	460	Body shields	1
Cardigans	545	Oil bottles	220
Shirts	1034	Pull through	40
Braces	862	Straps	50
Drawers	544	Belts	50
Socks	prs. 2408	Bandoliers	163
Miscellaneous, dmgd.		Water bottles	302
clothing etc.	cwt. 22		
Holdalls	502		
Field dressings	1110		
German clothing sacks	3		

unserviceable.

(over)

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

No.

Salvage cont. :-

APPENDIX 10

45

Mess Tins	1065	Respirators	530
W.P. Sheets & Capes	759	Sundry equipt.	sacks 17
Ammunition (S.A.)	15580	Cavalry sword	1
Revolvers	3		

Unserviceable equipment returned to O.O. for replacement :-

Marquees H.P. small	6	Mugs enamel	4
Tents C.S.L.	4	Lamp, oper. acety. large	
Marquee canvas flooring	sets 4	hanging & case	1
Bedsteads, folding	10	Pails, latrine	9
Stretchers, ambulance	74	Mallet, lge. wooden	1
Lamps, oil heating	6	Shovels G.S.	1
" hurricane	2	Syphons, soda	4
Urinals, zinc	8	Brooms, Bass	5
Pails G.I.	3	Brushes, sweepg. long	4
Basins enam. 14"	2	" scrub, hand	2
" " 6"	1	Bottles, H.W. Rubber	11
Plates, enamel	6	Boiler (Soyer)	1
Aprons operat. W.P.	26		

Surplus equipment returned to O.O.

Gas mantles	100	Refills fire exting.	24
" globes	95	Hosing canvas	ft. 60
Socks	300	Lamps, operat. F. Amb.	3
Drawers	600	Shirts	420
Coats, khaki drill	20	Gloves	prs. 160

POWER-HOUSE :- The engines were run for 479 hours, during the month.

CARPENTERS :- Some constructional work and many sundry repairs have been effected.

TINSMITH :- Many repairs to Primus stoves etc. were effected during the ~~xxxx~~ month.

COOK-HOUSE :- The staff are to be congratulated on the quality of the food cooked and the cleanliness of the premises and utensils.

BY-PRODUCTS saved during month :-

	Delivered to Ellis Fld. Fat Fcty.	Consumed in mess	Used in Cook-house	
Dripping 1st. class	1369 lbs.	98 lbs.	86 lbs.	
" 2nd. class	94	-	-	
	1463	98	86	= 1647 lbs.

Fat residue 850 lbs

Bones 1512 lbs

SANITATION. :- The work of the sanitary squad is excellent. The portion of the camp under their care is kept scrupulously clean and neat.

FIRE-DRILL & PRECAUTIONS :- Nothing further to report.

R. Johnston Hon. Capt. &
Q.M.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION.

No.

Date

11

WARD REPORTS~~1~~ WARD~~2~~ DATE~~3~~ TIME

4 BEDS OCCUPIED

5 BEDS VACANT

6 PATIENTS (except interward transfers) received since last report

7 PATIENTS (except interward transfers) sent out since last report.

8 PATIENTS died since last report

9 PATIENTS sent to other Wards since last report (give Wards and numbers)

10 PATIENTS received from other Wards since last report (give Wards and numbers)

11 PATIENTS awaiting transfer to other Wards (give Wards & Nos)

12	PATIENTS	"	"	"	<u>base</u> (give)	
13	"	"	"	"	DIARRHOEA Hosp.	Give
14	"	"	"	"	INFECTIOUS Hosp	Numbers
15	"	"	"	"	N.Y.D.N. Hosp	LYING
16	"	"	"	"	N.Y.D. Gas Hosp.)	and
17	"	"	"	"	Anywhere else)	SITTING
18	"	N.Y.D.N. for transfer				
19	"	N.Y.D. Gas for transfer				
20	"	S.I. or ? Accidental not for transfer				
21	"	for Discharge to Duty				
22	"	Discharged since last report				
23	"	For Light Duty Parade (total No. sleeping in Ward)				

Whoever is in charge of the Ward will be prepared to give the above information verbally or otherwise at 11 a.m.

7 a.m. and 6 p.m.

Difficulties or delays in transfers etc. of patients should be reported to the orderly when he comes for the figures.

APPENDIX

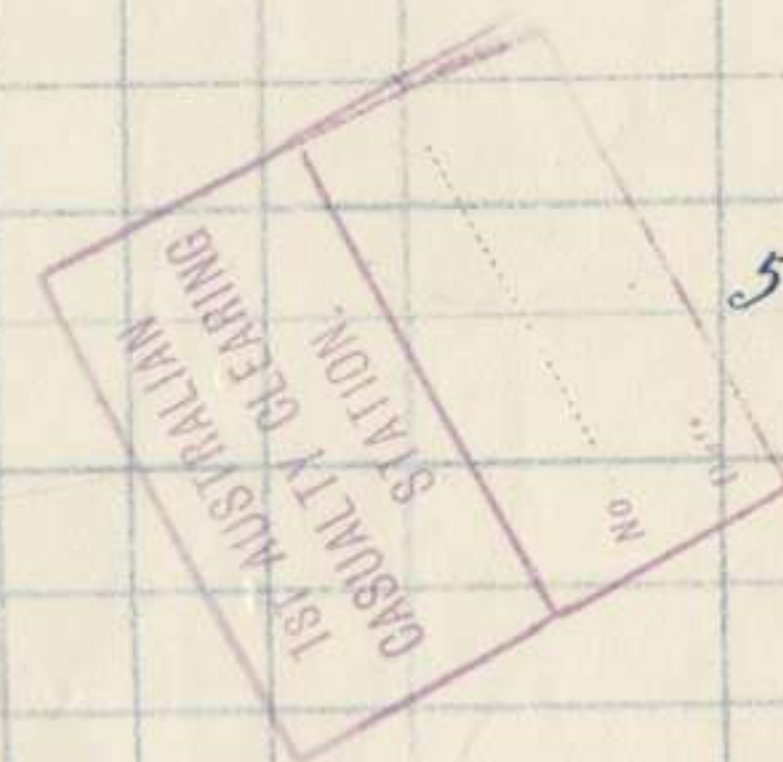
8	7	18	9	7	18	10	7	18	11	7	18	12	7	18	13	7	18	14	7	18
11AM		7PM	11AM		7PM	11AM		7PM	11AM		7PM	11AM		7PM	11AM		7PM	11AM		7PM
4	140	144	135		204	271		276	277		240	187		192	200		262	190		193
5	410	406	415		346	394		274	303		349	402		393	389		323	395		392
			TOTAL.			TOTAL.			TOTAL.			TOTAL.			TOTAL.			TOTAL.		
6	16	2	20	3	70	53		21	3		70	46		8	8		107	57		6
7	65	-		12	1	-		-	-		109	99		-	2		37	129		-
8	2	-		-	1	1		-	-		1	1		-	-		-	-		1
9	-	3		6	-	-		-	39		-	13		1	2		10	2		2
10	-	3		6	-	-		-	39		-	13		1	2		10	2		2
11	-	-		1	-	-		-	-		-	-		-	-		-	-		-
12	2 ^r	2 ^s		-	21 ^r 37 ^s	35 ^r 56 ^s		47 ^r 56 ^s	53 ^r 67 ^s		16 ^r 46 ^s	3 ^r 9 ^s		6 ^r 13 ^s	18 ^r 15 ^s		39 ^r 44 ^s	1 ^r		12 ^r
13	-	-		-	-	-		-	-		-	-		-	-		-	-		-
14	-	-		-	-	-		-	-		-	-		-	-		-	-		-
15	-	-		-	-	-		-	-		-	-		-	-		-	-		-
16	-	-		-	-	-		-	-		-	-		-	-		-	-		-
17	-	-		-	-	-		-	-		-	-		-	-		-	-		-
18	-	-		-	-	-		-	-		-	-		-	-		-	-		-
19	-	-		-	-	-		-	-		-	-		-	-		-	-		-
20	-	-		-	-	-		-	-		-	-		-	-		-	-		-
21	2	8		-	-	-		-	-		8	2		2	-		2	1		2
22	1	-		8	-	-		-	-		-	1		-	2		2	3		-
23	67.	69		64	64	64		64	64.		70.	69		68.	65		72	69		65.

1ST AUSTRALIAN
CASUALTY CLEARING
STATION

APPENDIX

18

15	7	18	16	7	18	17	7	18	18	7	18	19	7	18	20	7	18	21	7	18
1	11 ^m	4 ^m	11	7		4	7		11	7		11	7		11	7		11	7	
4	194	261	309	218		220	271		316	199		161	204		318	194		221	315	
5	391	325	278	367		367	214	TOTAL	269	386	TOTAL	424	414	TOTAL	288	396	TOTAL	367	273	TOTAL
6		121	100	53	4	106	107	97	51	1	46	5	125	178	123	8	118	6	104	158
7	2	58		12	98		44			117		46	113			116				9
8		1			1		1		2			1				3		2	4	
9		8		3	5		4			10		1	4		6	5		4	3	
10		8		3	5		4		3	10		1	4		6	4		2	2	
11																				
12	17 ^L 1 ^S	20 ^L 52 ^S	50 ^L 65 ^S	22 ^L 22 ^S		33 ^L 23 ^S	41 ^L 54 ^S		47 ^L 70 ^S	35 ^L 4 ^S		1 ^L 1 ^S			53 ^L 41 ^S 1 ^L 1 ^S	1 ^L 2 ^S		12 ^L 19 ^S	50 ^L 68 ^S	
13		1 ^S	1 ^S										2 ^S							
14																				
15																				
16																				
17																				
18																				
19																				
20		2		2	2		2	2					5		5					
21		3					3		1	2		2						2	4	
22	2	4		5			1			3			1						1	
23	65	68		68	68		68	73	70	71		70	73		72	72		70	73	



22	7	18	23	7	18	24	7	18	25	7	18	26	7	18	27	7	18	28	7	18
1	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm	11Am	7Pm
4	417	229	189	224	374	203	207	299	239	242	196	286	205	206						
5	178	356	400	261	212	382	379	292	355	350	396	306	386	387						
6	100	11	4	140	52	5	4	121	54	8	6	92	89	6						
		TOTAL 80		TOTAL 158		TOTAL 47		TOTAL 149		TOTAL 53		TOTAL 110		TOTAL 81						
7	186		48		173		24		129	1	51		161	7						
8	1		1		2	1							1							
9	1	5	4	1	1	4	1	6	3	7	3	6	1	4						
10	1	5	3	1	1	4	1	5	3	7	3	5	1	2						
11									3											
12	91 ^L 113 ^S	28 ^L 3 ^S	4 ^L	61 ^L 55 ^S	89 ^L 80 ^S	9 ^L 1 ^S	20 ^L 3 ^S	22 ^L 45 ^S	4 ^L 1 ^S	29 ^L 4 ^S	5 ^L 8 ^S	29 ^L 50 ^S	2 ^L	16 ^L						
13	1 ^L			1 ^S	3 ^L 1 ^S			3 ^L					3 ^L							
14																				
15	1 ^L																			
16	6 ^L	1 ^L				1 ^L			2 ^L	2 ^L			1 ^L							
17	2 ^L	7 ^L	11 ^L	14 ^L	11 ^L	9 ^L	10 ^L	7 ^L	4 ^L	3 ^L			2 ^L	1 ^L						
18																				
19																				
20			4										5	1						
21	1			3	3	4	4		2	1	1	5	1							
22	4		1					4		1		1	7							
23	70	71	69	69	68	71	72	73	72	77	75	80	74	77						



APPENDIX 11 50