Annual report of the Board of Management of Adelaide Hospital with a list of subscriptions, donations, etc: 1921.

Contributors

Adelaide Hospital (Adelaide, S. Aust.)

Publication/Creation

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FIFTY-SECOND ANNUAL REPORT

OF THE

BOARD OF MANAGEMENT

OF THE

ADELAIDE HOSPITAL,

WITH A

LIST OF SUBSCRIPTIONS, DONATIONS, ETC.,

FOR 1921.

ADELAIDE:

R. E. E. ROGERS, GOVERNMENT PRINTER, NORTH TERRACE
1922.

OFFICE BEARERS, 1921.

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MATRON.

ELEANOR HARRALD.

HOUSEKEEPER.

MRS. BESSIE MOORE.

MEDICAL OFFICERS, 1921.

HONORARY CONSULTING MEDICAL AND SURGICAL STAFF.

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THOMAS BORTHWICK, M.B., CH.M.

Surgeons:

PROFESSOR ARCHIBALD WATSON, M.D., F.R.C.S.

ARTHUR E. SHEPHERD, D.S.O., O B.E., L.R.C.P. & S., Edin.; L.F.P. & S. WILLIAM ANSTEY GILES, M.B., Ch.M. JAS. A. G. HAMILTON, M.B., L.R.C.S. ARTHUR F. A. LYNCH, M.B., B.S. GEO. A. FISCHER, M.B., B.S.

Radiologist:

WILLIAM RAY, M.B., B.S., ADEL.

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C. T. C. DE CRESPIGNY, D.S.O., M.D., Melb. WILLIAM RAY, M.B., B.S., Adel. FRANK S. HONE, M.B., B.S., Adel. Honorary Surgeons:

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W. R. CAVANAGH-MAINWARING, S.E., F.R C.S., Eng., &c.

HENRY SIMPSON NEWLAND, C.B.E., D.S.O., F.R C.S., Eng., &c.

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ROWLAND E. HARROLD, M.B., CH.M., EDIN.

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SAMUEL ROY BURSTON, C.B.E., D.S.O., M.B., B.S., SUCCEEDED BY
ALBERT RAY SOUTHWOOD, M.D., ADEL.

Honorary Assistant Physician to Neurology Department. H. KENNETH FRY, D.S.O., M.B., B.S.

Honorary Pathologist:
JOHN B. CLELAND, M.D., SYDNEY.

Honorary Clinical Pathologist:
DOUGLAS L. BARLOW, M.B., B.S.

Honorary Radiologist:

HARRY CAREW NOTT. M.B., B.S., ADEL.; D.M.R.E., CAMB.

Honorary Assistant Physicians:

J. WALTER BROWNE, M.B., CH.M., IREL. D'ARCY R. W. COWAN, M.B., B.S., ADEL.

SAMUEL ROY BURSTON, C.B.E., D.S.O., M.B., B.S.

Honorary Assistant Surgeon:

BRONTE SMEATON, M.B., B.S., ADEL.; M.R.C.S., Eng.; L.R.C.P., LOND.

JOHN CORBIN, M.B., B.S., ADEL.

MALCOLM L. SCOTT, M.D., M.S., F.R.C.S.

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RUPERT E. MAGAREY, M.B., B.S., ADEL.

H. ARTHUR POWELL, C.M.G., M.B., B.S.,

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GILBERT BROWN, M.B., CH.B., LIVERPOOL.

P. SANTO MESSENT, M.B., B.S., ADEL.

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Males:

HAROLD RISCHBIETH, M.D., F.R.C.S., SUCCEEDED BY GLEN H. BURNELL, M.D., ADEL.

Females:

PHŒBE CHAPPLE, M.B, B.S., ADEL.

Honorary Consulting Masseur:
JOHN MILLIKIN, Esq., F.S.Sc.

Resident Masseuse:

ENO M. ASHTON.

MEDICAL SUPERINTENDENT.

CHAS. T. TURNER, M.C., M.B., BS.

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F. R. HONE, M.B., BS., ADEL.

S. R. HECKER, M.B., B.S., ADEL.,

SUCCEEDED BY

P. E. L. HUSSEY, M.B., B.S., ADRL.

K. S. HETZEL, M.B., B.S., ADEL.

J. E. MAHON, M.B., B.S., MELR.

W. E. STEVEN, M.B., B.S., ADEL.

H. G. WALLACE, M.B., B.S., MBLB.

R. L. E. WALMSLEY, M.B., B.S., ADEL.

B. E. WURM, M.B., B.S., ADEL.

I. V. YOFFA, M.B., B.S., MELB.

DISPENSER.

W. F. HAMMER, M.P.S.

DENTAL OFFICERS.

Honorary Dental Surgeons:

DR. THEO. SHANASY SUCCEEDED BY DR. L. W. TROTT.

DR. P. RAY NEWLING.

DR. E. MILLHOUSE.

DR. ARTHUR CHAPMAN.

MR. F. M. SWAN.

Superintendent:

DR. ARTHUR CHAPMAN.

House Dental Surgeon: THOS. D. CAMPBELL.

ADELAIDE HOSPITAL.

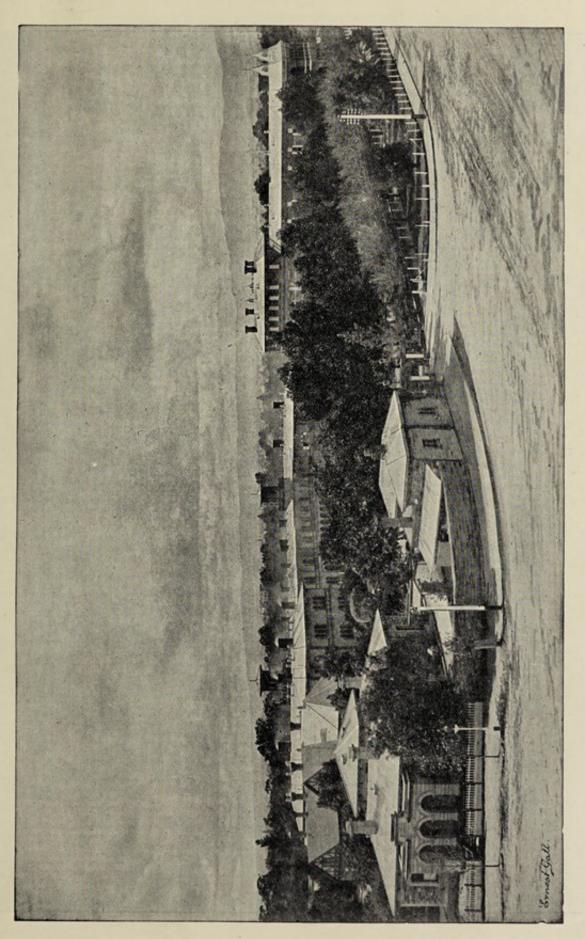
Roll of Honor for Serving their King and Country in the Great War, 1914-18.

Earl, H., porter. . Cliff, S., porter. Draper, T. W., porter. Cavanagh-Mainwaring, Dr., H.M.O. Newland, H. S., Dr., H.M.O. Watson, A., Prof., H.M.O. White, L. E., charge nurse. Graham, M., matron. Haynes, O. L., charge nurse. Hay, M., charge nurse. Peters, E. A., charge nurse. Shearer, A. C., charge nurse. Burston, S. R., Dr., H.M.O. Deere, F. M., charge nurse. Cunningham, A., charge nurse. McManus, L. V., charge nurse. Medlyn, C., secretary. Rodgers, M., charge nurse. McLean, C. G., charge nurse. Yeatman, C., Dr., medical superintendent. De Crespigny, C. T. C., Dr., H.M.O. Cudmore, A. M., Dr., H.M.O. Williams, F. E., asst. laby. Howitt, F. M., charge nurse. Nott, H. C., Dr., R.M.O. Beard, J. R. S., Dr., R.M.O. Steele, K. N., Dr., R.M.O. LeMessurier, F. N., Dr., R.M.O. Vereo, J. S., Dr., R.M.O. Guymer, E. A., Dr., R.M.O. Kitson, F., charge nurse. Daw, L. C., charge nurse. Turner, C. T., Dr., R.M.O. Close, W. J., Dr., R.M.O. Wall, F. L., Dr., R.M.O. Barnes, G. E., charge nurse. Clarence, F. E., asst. laby. Thompson, F. H., attendant. Smeaton, B., Dr., H.M.O. Nelson, H. G., clerk. Burns, W., asst. attendant. Smith, D., porter. James, I., porter. McKenzie, A., kitchen. Hayward, W. T., Dr., H.M.O. Hamilton, J. A. G., Dr., H.M.O. Wilson, T. G., Dr., H.M.O. Browne, J. W., Dr., H.M.O. Scott, F. S., Dr., H.M.O. Kellaway, Professor, H.M.O. Smith, W. L., Dr., R.M.O. Haste, R. A., Dr., R.M.O. Shepherd, A. E., Dr., H.M.O. Rogers, R. S., Dr., H.M.O.

Hill, A. W., Dr., H.M.O. Poulton, B., Dr., H.M.O. Todd, C. E., Dr., H.M.O. Johnson, E. A., Dr., H.M.O. Rinder, L., charge nurse. Kingsmill, E. M., charge nurse. Gurner, M. H., charge nurse. Nelson, A., charge nurse. Millikin, J., galvanist. Giles, W. A., Dr., H.M.O. Gault, A. H., Dr., H.M.O. Harrold, R. E., Dr., H.M.O. Hone, F. S., Dr., H.M.O. Lynch, A. F., Dr., H.M.O. Shillabeer, J. M., charge nurse. Clark, H. M., charge nurse. Sanders, C. D., charge nurse. Reed, E. A., charge nurse. Davis, D., charge nurse. Cherry E. J. S., charge nurse. Simon, L. H., charge nurse. Haggard, V. C. D., charge nurse. Ransome, F., charge nurse. Rodgers, D., charge nurse. Brinsley, D. A. H., charge nurse. Horne, S. H., engineer. Medcalf, E., clerk. Wilson, A. V. charge nurse. Bennett, M. A., charge nurse. Dunn, L. A., charge nurse. Holden, F. M., charge nurse. Rogers, A. M., charge nurse. Howie, L. C., charge nurse. Ridgway, D. A., charge nurse. McHugh, E. A. M., probationer. Wharff, M. H., probationer. Shapter, R. E., laby. attendant. Coombs, V. R., charge nurse. Sutherland, M. I., charge nurse. Parkinson, I. L., charge nurse. McConville, M. A., charge nurse. Kealy, M., charge nurse. Stevens, V. J., charge nurse. Ringwood, A. M., charge nurse. Hunt, M. A., charge nurse. Osborne, A. C. L., charge nurse. Paterson, A. G., charge nurse. Thomas, L. E., charge nurse. Sandison, E. M., charge nurse. Couston, J. H., charge nurse. Malcolm, M. S., probationer. Rudall, Maud B., charge nurse. Hoggarth, J. M., charge nurse.

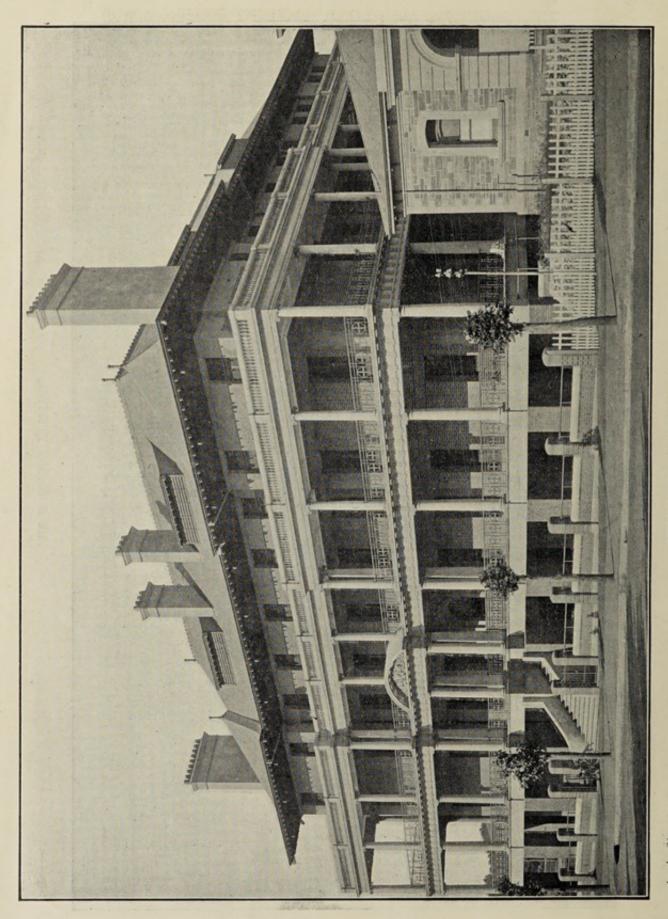
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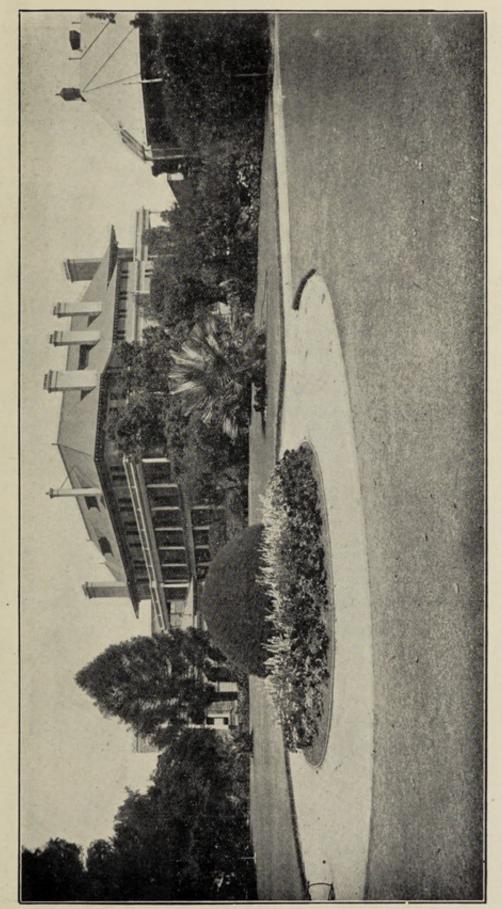
ADELAIDE HOSFITA



THE ADELAIDE HOSPITAL.







VIEW OF HOSPITAL GROUNDS, ETC. (Showing Nurses' Home).



EXTRACTS FROM RULES AND REGULATIONS.

ADMISSION AND DISCHARGE OF PATIENTS.

1. Admission.—Every contributor of £2 shall have the privilege of recommending two indoor or 12 outdoor patients within a year of date of such contribution; and of £5, five indoor or 30 outdoor patients within the year; of £10 annually, the privilege of having always one patient in the Hospital. A subscriber of £20 or over becomes entitled to Life Membership.

2. It is to be distinctly understood that these recommendations are only to be issued by the contributors to persons who cannot pay for medical treatment elsewhere. Hour of attendance of out-patients at the Out-patients' Department, Adelaide Hospital, 9 a.m.

3. Life contributors to have the same privileges in proportion; their donations being estimated as annual contributions of one-tenth.

4. It is optional for contributors to have indoor order-forms supplied in lieu of outdoor forms, at the rate of one of the former for six of the latter.

5. It is to be distinctly understood that these recommendations are only to be given to persons who, on account

of their financial position, are proper subjects for Hospital treatment.

6. Applicants for admission to the Hospital shall, unless possessed of means sufficient to pay for medical advice, make a declaration, on a form printed for that purpose, to the effect that they are unable to pay for medical advice, and stating whether they are entitled to medical attendance from any benefit society or lodge.

7. Every member of the Board of Management and every legally qualified medical practitioner may likewise recommend patients for admission; severe accidents and cases of real emergency may be admitted at all times by

the Resident Medical Officer on duty.

8. No female for the purpose of confinement shall be deemed fit for Hospital treatment; and no children under 10 years of age or infant shall be admitted on account of the condition of the mother alone, except with the advice of the Honorary Medical Officer. Infectious cases other than typhoid or tuberculosis are admitted to the Infectious Diseases Block. The Boards of Health representing the various municipalities being responsible for the isolation of such cases at a cost of 4s. 4d. per day per patient.

9. The proper hours for patients to present their recommendations for admission to the Hospital are from 10

a.m. to 4 p.m., except in cases of emergency or accident.

10. Any case which can be treated at the Out-patients' Department, or which is obviously incurable, cannot be

admitted, except by special order of a visiting Medical Officer.

12. No patient shall be discharged from the Hospital without the consent of the visiting Medical Officer, except as provided for under the regulations or in cases of misconduct.

ADMISSION ON PAYMENT OF FEES FOR MAINTENANCE.

1. Persons seeking admission whose means will not enable them in any other way to procure such medical attendance as their cases may require may be admitted into the institution upon payment of maintenance fees at the rate of from 3s. to 6s. per diem, and upon the patient or a responsible person making an agreement with the Secretary guaranteeing the payment during the time the patient remains in the institution.

 Every person making a declaration or statement in writing when applying for admission to the Hospital
that he is unable to pay for medical advice, and that he is not entitled to any benefit from any lodge, shall, nevertheless, be liable to pay to the Board the sum of £2 2s. for each week, and a proportionate sum for any part of a

week, during which he receives medical attendance at or from the Hospital.

VISITORS.

1. Friends desirous of visiting patients may, unless prohibited by the Resident Medical Officer, be admitted to the institution (by tickets only, to be procured in the wards) for that purpose on Tuesdays, Thursdays, and Sundays, between the hours of 2 and 4 p.m., and shall leave the wards punctually at the latter hour—a bell will be rung five minutes before the time for departure—but no more than two visitors to each patient are allowed on any one day, unless specially authorised. Exceptions to the above rule will only be allowed by special permission of the Resident Medical Officer or Medical Superintendent in favor of near relations, friends of patients in a dangerous state, or to Jews on their Sabbath. Visitors are strictly forbidden, on pain of expulsion from the wards, to introduce food, drink, or refreshment of any kind whatever without the sanction of the Resident Medical Officer in charge of the patient; and to ensure the perfect observance of this rule all parcels, &c., must be opened in the presence of the nurse on duty in the ward.

VISITING PATIENTS BY NIGHT.

In order to obviate certain difficulties to relatives of the patients in the Adelaide Hospital who cannot for business reasons visit by day, the Hospital authorities have inaugurated a scheme which will, it is hoped, be

satisfactory both to the public and the Hospital.

A special night visitors' card, signed by the Medical Superintendent, will be issued to eligible persons within 24 hours of the admission of a patient to the Hospital. This card, on presentation at the Hospital, will enable the person to visit his or her sick relative at the times stated thereon.

Special permission without cards will be given to relatives of patients who are dangerously ill.

MORAL AND RELIGIOUS INSTRUCTION.

 Patients are at liberty to receive the visits of ministers of the religious denomination to which they respec. tively belong.

REPORT.

ADELAIDE HOSPITAL .- ANNUAL REPORT.

THE Board of Management of the Adelaide Hospital have the honor to submit, for the information of His Excellency the Governor, the contributors to the funds of the hospital, and the general public, their fifty-second annual report of the condition and progress of the institution for the year ended December 31st, 1921.

Hospital Statistics for the Years 1870 to 1921, inclusive.

Year.	Number of Cases Admitted.	Number of Deaths of In- Patients.	Average Daily number of Patients in Hospital.	Average number of Days Patients Discharged during the Year have been in Hospital.	Annual Cost of each In-Patient, i.e., per Bed *Occupied.	Number of Attendances of Out- Patients Treated.	Total Annual Expenditure. †	Annual Contributions Received, including 10 per cent. of all Life Costributions.	Amount of Fees Received for Maintenance of Patients.	Fees received towards Maintenance (based on total average of Patients, and not deducted in calculatin "Annual Cosof each Patient").
					£ s. d.		£ s. d.	£ s. d.	£ s. d.	£ s. d.
1870	1,203	97	151	43	46 9 21	12,885	8,131 5 6	717 18 6	283 3 1	1 17 6
1871	1,288	87	141	40	46 15 11	15,463	7,619 11 2	843 9 10	346 0 6	2 9 1
1872	1,344	108	139	38	47 2 91	16,621	7,488.11 5	1,397 14 11	411 19 7	2 19 3
1873	1,438	81 98	137	35 29	47 2 10	15,930	7,284 3 2	1,234 15 3	503 15 10	3 13 6 3 6 7
1874 1875	1,685 1,958	179	157	29	51 4 3½ 46 2 0	14,872	7,778 13 2 8,479 2 9	1,149 7 2 1,185 3 7	446 1 9 322 0 4	2 1 0
1876	2,130	167	169	27	51 15 11	17,220 16,456	9,947 5 4	1,386 13 0	500 9 4	2 19 11
1877	2,157	153	188	30	53 7 24	20,665	11,597 18 8	1,298 17 4	403 12 6	2 2 11
1878	2,441	185	189	28	46 2 11	20,093	10,156 2 6	1,274 4 11	821 0 6	4 6 10
1879	2,225	148	165	26	48 8 8	15,242	9,566 10 3	1,276 13 8	734 13 4	4 9 0
1880	2,088	139	155	30	47 16 24	15,763	8,705 1 8	1,366 17 3	726 12 5	4 13 9
1881	2,105	131	159	25	43 19 41	15,981	8,196 3 6	1,324 2 1	674 19 6	4 4 10 4 0 5
1882 1883	2,115 2,119	176 174	174 165	28 28	44 2 53 58 14 2	14,188	8,937 2 0 10,548 16 3	1,815 10 5 1,837 9 9	700 4 1 637 12 10	4 0 5 3 17 3
1884	2,129	159	172	28	56 6 6	7,661 8,218	10,693 3 9	1,856 11 6	791 18 3	4 12 1
1885	2,024	153	167	29	53 4 8	7,445	9,755 11 0	1,722 7 3	660 14 9	3 19 1
1886	1,878	164	174	33	51 14 103	10,320	9,679 8 6	1,410 8 5	565 19 10	3 6 0
1887	1,895	144	172	32	51 16 10	10,554	9,686 13 11	2,059 9 3	657 2 3	3 16 4
1888	2,003	180	184	31	49 13 34	10,983	9,875 11 7	1,852 0 5	529 19 5	2 17 7
1889	2,075	169	191	33	64 5 3	13,046	12,877 18 6	1,746 15 6	435 3 5	2 5 6
1890 1891	2,026 2,147	191 205	185 192	32 31	63 4 101	12,877	12,416 4 2 13,699 18 5	1,960 19 5 1,688 5 2	552 0 1 516 8 4	2 19 8
1892	2,251	193	195	29	66 7 103 66 17 104	13,003 12,495	13,699 18 5 14,011 10 11	1,688 5 2 1,810 6 10	497 17 8	2 11 (
1893	2,328	213	201	30	62 7 9	14,513	13,483 2 10	1,531 8 11	662 3 4	3 5 11
1894	2,366	209	209	33	62 8 2	15,286	14,012 17 1	1,557 13 7	570 2 0	2 14 6
1895	2,621	260	239	37	53 5 7	16,484	13,760 3 6	1,514 10 1	563 3 6	2 7 1
1896	2,438	222	225	32	61 16 8	15,808	14,890 9 8	1,222 9 0	427 17 7	1 18 (
1897	2,740	225	231	31	71 1 10	18,040	17,568 4 10	1,362 18 0	421 3 2	1 16
1898 1899	3,246 3,493	246 257	234 244	26 25	69 14 6 69 7 61	17,468	17,564 19 1 18,200 12 0	1,108 16 5 1,266 9 9	320 5 10 513 18 8	2 2
1900	3,036	243	219	25	75 5 102	18,117 17,390	17,616 1 8	852 8 0	338 14 11	1 10 1
1901	3,371	282	250	25	75 12 11	19,233	20,103 12 8	921 3 0	322 14 7	1 5
1902	3,193	264	248	26	73 5 6	20,233	19,065 1 8	1,127 2 3	602 19 8	2 8
1903	3,055	291	254	23	66 8 5	20,059	17,542 10 8	978 16 6	720 19 3	2 16
1904	2,724	265	214	28	68 16 10	20,818	15,491 7 4	984 1 11	799 10 8	3 14
1905	2,810	264	217	25	67 18 2	22,120	15,511 7 6	985 3 1	816 11 1	3 15
1906 1907	3,056	253 276	222	25 28	67 16 7 71 0 10	21,902	15,919 7 5 18,057 13 2	915 2 6 911 1 6	739 9 5 844 15 2	3 6 3 10
1908	3,200	270	266		75 1 3	21,287 20,089	18,057 13 2 20,856 8 0	1,059 9 6	828 19 9	3 2
1909	3,452		273		74 16 0	19,766	21,605 16 4	1,086 16 9	758 19 0	2 15
1910	3,763		274		77 15 10	18,838	22,488 12 10	1,066 8 2	955 18 5	3 9
1911	3,861	334	278	23	83 17 0	16,910	24,527 14 7	1,105 18 0	1,027 16 1	3 13
1912	4,024		288	1 13000	101 6 0	19,343	30,832 8 7	1,221 8 1	1,619 13 3	5 12
1913	4,428		284		101 4 6	20,615	30,514 6 7	1,220 12 6	1,484 9 0	
1914	5,013		298		97 16 10	20,808	30,848 4 7	1,119 14 11	1,003 10 4	3 7
1915 1916	4,636 4,861		293 292		103 0 4	20,827	33,416 11 11 36,857 6 2	1,004 7 10 1,001 7 9	1,462 9 1 1,130 12 11	4 19 1 3 17
1917	4,919		297		133 11 8	16,882 15,339	41,678 15 1	962 4 4	1,704 13 9	
1918	5,292		314		119 17 0	18,398	39,659 1 2	1,082 17 10	1,962 13 4	3 1
1919	4,765				142 14 11	16,370	45,255 7 0		2,021 7 8	6 15
	1 1000	410	004	1 00						
1920 1921	4,980 5,105				165 16 1 157 14 9	17,591 18,997	57,378 9 1 64,626 16 4	1,032 5 5 1,061 3 2		

^{*} The cost per head is arrived at by making allowance for attendance and medicines supplied to the out-patients, &c.

† The total expenditure does not include Consumptives' Home, £5,918 3s. ld.; Infectious Diseases Block, £5,137 11s. 3d.;

Bacteriological Laboratory, £2,970 12s. 4d.; and Department of Dentistry, £644 3s. ld.

‡ The fees received do not include Consumptives' Home, £688 9s. 6d.; Infectious Diseases Block, £3,732 4s. 0d.

Bacteriological Laboratory, £2,301 9s. 5d.; and Department of Dentistry, £50 17s. 3d.

The total number of deaths (449) does not include Consumptives' and Cancer Home (121) and Infectious Diseases Department (28).

The statistics for the year as compared with those of 1920, show the following:—Increases—Annual contributions, £28 17s. 9d.; Number of admissions, 125; number of deaths, 33; average daily number of in-patients, 38; attendances of out-patients, 1,406; expenditure, £7,248 7s. 3d.; patients fees, &c., £472 18s. 10d. Decrease—Annual cost of in-patients, £6 1s. 4d.

Three hundred and eight (308) patients have been sent to the Convalescent Hospital, Semaphore, at a cost to this institution of £19 ls. The Da Costa Fund, created by Miss Da Costa, to assist convalescent patients leaving hospital, bore the expense of much the greater portion of this number.

The number of cases of enteric fever treated, showing percentage of mortality over same :—

In	1887	there were	161	cases a	and 19	deaths	=	11.8	per cent.
66	1888	**	177	"	15	44	=	8.4	"
**	1889	"	153	"	-21		=	13.7	"
44	1890	44	95	46	16	44	=	16.8	**
**	1891	**	63	66	13	44	=	20.6	"
**	1892	- 44	85	"	15	**	=	17.6	**
**	1893	**	76	**	8	"	=	10.5	- 66
"	1894	**	131	"	18	- 66	=	13.7	44
**	1895	44	97	"	19	44	-	19.6	**
"	1896	"	138	"	18	**	=	13.0	"
**	1897	**	167	**	17	**	=	10.1	"
44	1898	- 166	303	- 66	24	**	200	7.9	"
44	1899	44	195	66	16	**	-	8.2	**
44	1900		75	**	8	44	-	10.6	**
**	1901	44	155	**	15	- 44	-	9.6	**
44	1902	**	135	**	19	46	=	14.0	**
66	1903	44	76	**	7	**	=	9.2	**
**	1904	**	42	"	7	**	-	16.6	**
**	1905	**	52	**	5		=	9.6	**
**	1906	**	66	**	14	**	=	21.2	44
44	1907	**	55	**	12	**	=	21.8	**
	1908	**	72	**	9	44	-	12.5	44
**	1909	44	71	44	10	44	-	14.0	44
44	1910	**	64	**	7	**	_	10.9	- 66
	1911	**	52	**	5	**	=	9.6	66
44	1912	**	64	**	6	**	-	9.3	44
	1913	44	105	44	13	44	=	12.4	14
**	1914	"	72	46	11	44	=	15.3	44
**	1915	**	66	"	9	**	==	13 6	**
**	1916	**	86	"	12	"	=	14.0	• • •
**	1917	**	59	46	6	44	=	10-1	"
"	1918	"	35	"	1	"	=	2.8	**
	1919	"	14	**	3	**	=	21.4	- 44
	1920		33		3	"	=	-	
**	1921	**	60		4	44	-	6.7	"

Of the cases of enteric fever the following statistics are of value:—

Localities from whence cases of Enteric Fever were received.

					-						
	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Adelaide	10	12	16	16	17	14	12	7	3	15	15
Alberton	1	2	3	-	-	1	2	_	-	-	2
Allandale	-		-	1	-	_	-	_	-	-	_
Ambleside											
Ashton	-	-	-	-	. 1	-	-	-	-	-	-
Athelstone							_				
Balaklava	-	-	1	-	2	-	-		-	1	

Localities from which cases of Enteric Fever were received -continued.

Locatities from w											
		912	1913	1914	1915	1916	1917	1918	1919	1920	1921
		-	-	-	-	-	-	-	-	-	-
Basket Range		-	-	-	-	1	-	-	-	-	-
Belair	-	-	-	-		-	-	-4	1	-	-
Biggs Flat	-	-	-	-	-	-	-	-	-	-	-
Birkenhead	-	-	1	-	-	-	2	-	-	1	2
Black Swamp	-	-	3	-	-	-	-	-	-	-	-
Blackwood	-	1	-	-	-	-	-	-	2	_	=
Bordertown	-		_	-	-	2	-	-	-	_	1
Bowden	-	_	_	_	_	1	-	_	1	1	2
Bridgewater	1	_	-	_	_	_	_	-	_	_	-
Brighton	_	3	14	_	9	-	_	-	1		
Broken Hill	2	_	_	1	_	1	_	_	_	-	
Brompton	-	1	_	-	2	1	1	1		_	
Brooklyn Park	_	_	_	_	-	1	-	-	_		-
Burnside	_		_	_	1	_	_	_	_		1
Campbelltown	_	_	_	-	-	1	-	-	_	_	-
Campden Park	_	_	_	2	_	_	_	_	_		
Chain of Ponds	_	_	_	_	2		_		_	_	1993
Cheltenham	_	_	_		1	1	_	_	_		
Chicago	_	1	2		3		2			1	2
Clare	_	_	_	_	_	_	1	_		_	
Cobdogla	_	_	_	_	_	_		_	_		1
Cooke's Plains						1			_	100	-
Coromandel Valley		_	=	1	_		=	_	_	_	
Croydon	3	1	Ξ			_	1			=	
Day Crook			70	-	-			-	-		77
Dry Creek	-	-	_	_	-	1	-	=		_	
East Adelaide	2	2		-	-	-	-		-		
Eastwood	-	-	1	-	-	-	-	-	-	-	2
Edwardstown	-	-	-	1	-	1	-	-	-		-
Encounter Bay	-	1	-	-	-	-	-	-	-	-	-
Enfield	-	-	-	1	-	-	-	-	_	1	_
Exeter	-		1	-	-	-	-	-	4	-	-
Findon	1	-	1		-	-	-	-	-	-	1
Fullarton	-	-	-	1	-	7		_	-	-	-
Gawler	3	4	-	1	-	-		-	-	-	-
Gawler River	-	-	_	1	-	-		-	-	-	-
Gawler South	1	_	_	_	_		_	_	_	-	1
Gawler West	-		_	-			1	-	-	-	-
Gilberton	-	-		-	-	-	-	-	-	-	_
Glanville	1	1	2	_	3	1	-	1	_	_	_
Glenelg	_	1	3	_	2	_	_	2	-	-	1
Glen Osmond	_	_	-	_	-	1	-	_	_	_	-
Goodwood	1	1	_		_		_	2	_	_	2
Goolwa	_	_	2		1		3	1	_	-	-
Grange	_	2			_		_	_	_	_	1
Grangeville	-	_	_		1		_	_	_	_	-
Greytown	_		_	_	_	-	1	_		_	_
Gumeracha	_		-	_	_	1	_		_	2010	110
Hackham	_	-	_	_	1	_	_	_	_	-	_
Hackney	_		1			1	_		-	_	
Hamley Bridge	1					_		1		100	1000
Happy Valley	_		1		_			1			
Henley Beach			1		_	1		_			
Highbury			1	_	2			1			
WW 12	-	_	-	-		-	-	1	-		1
Hilton	-			-	-		-	-		-	1
Hindmarsh	1	_	-		-	-	-	-		1	
Hindmarsh Valley	-	-	-		-	1	-	-	1		-
Houghton	-	-	216		-	-	177	-	-		1
Hope Valley	-	-	-		1	-		-	-	-	1
Hyde Park	-	-	-		-	-	-	1	-	-	-
Innamincka	-	-	-	1	-	-	-	-	-	-	-
Islington	-	-	3	-	-	-		-	-	-	-
Kadina	1	-	-	-	-	-	-	-	-	-	100
2											

	Localities from w												Localities from wh
	W	1911	1912	1913	1914		1916	1917	1918	1919	1920	1921	0111
	Kersbrook	1	1	=	_	2	_			_	2	2	Sandwell
	Kensington Kent Town	-	2			_	2	2			-	1	Stirling West
	Keswick	_	_			_	_	_	1				Ships, Seamen, fm
	Kilkenny	_	_	_	1		_		_	_	_	1	Stockade Reserve
	Kingston	_			_			1					Stepney
	Knightsbridge	-	_		1	_	_		_	_		_	Strathalbyn
	Lameroo	_	-	_		_	1	_	_	_	_	_	Tailem Bend
	Largs	_	_	_		1	1	-	1	_	_	_	Tea Tree Gully
	Lockleys	_	-	_	1	_		-		_	_	-	Thebarton
	Lower Light	_	_	_		_		_	_	-	_	1	Torrensville
	Lower North Road		_	_	-	_	1		_	_	_		Two Wells
	Magill	1	_	_	2	_	_	_	_	-	-	1	Unley
	Mallala	_		_	1	_	_	_	_	_	_	_	Uraidla
	Manoora	1	_	_	_		_	_	_	-	-	-	· Victor Harbor
	Manunka	_	_	1	_	_	_	_	_	_	-	_	Walkerville
	Marleston	-		_	_	_	_	_	_	_	-	_	Wasleys
	Marryatville	-	-	1	_	_		-	-	-	-	-	Welland
	Maylands	_	_	1	1	_	_	_	_	_	_	-	Westbourne Park
	Medindie	_	1	_	-	_	-	_	-	_	-	-	Willaston
	Meningie	_	_	1	_	-	_	_	-	_	_		Williamstown
	Middleton		_	_	_	_	_	_		_	1	-	Willunga
	Millbrook			_		-	-	1	_	-	_	-	Wolseley
	Mildura	_	1	1	_	_	_	_	_	-	_	-	Woodville
	Mile End	2	_	_	_	1	1	1		_	2	-	Yankalilla
	Millswood	-	-	-	_	-	_	-	1	_	_	-	Yatala
	Mintaro	_	_	_	_	_	1		_	_	_	_	Yorke Peninsula
	Mitcham	_	-	1		-	1	-	_	_	_	_	Outside State
	Morgan		-	1	-	-	_	_				-	No Fixed Abode
	Morphettville	_	_	-	2	_	_	_	_	_	_	_	m . 1
	Mount Gambier	-	-	1	-	_	1	_	-	_	-	-	Totals
	Mount Lofty	1	-	-	_	-	_	_	_	_		-	
	Murray Bridge	_	_	_	_	1	_	_	_	_	_	-	1,000
	Mylor.,	-	1	_	-	_	_	_	_	_	-	-	The education of
	Nackara	_	_	_	_	_	_	2	_	_	_	-	The admissions o the year as follows,
	Nairne		-	-	-	-	_	_	_	-	-	-0	11 - 11 - 11 - 11 - 11
	New Glenelg	-	-	1	-	-	-	-	-	-	-	-	191
	Noarlunga	_	-	_		4	_	_	-	-	-	-	January 8
	Norton's Summit	-	-	-	-	_	1	-	-	-	-	-	February 11
	Norwood	3	2	-	1		2	2	-	-	-	-8	March 8
	Oakbank		-	-	-	-	-	-	-	-	_	-	April 2
	Oaklands	-	-	-	-	1	-	-	-	-	-	(- 1 2)	May 8
	Ottoway	-	-	-	-	-	-		1		-	-	June 3
	Paradise	-	-	4	-	-	-		-	-	-	-	
	Parkside	2	2	-	-	-	2	-	1	1		2	July —
	Payneham	-	2	-	-	-	-	-	1	-	-	1	August 2
8	Penong	-	-	1	-	-	-	-		-	-	-	September 1
	Peterhead	-	-	1	-	-	1	-	-	-	-	-	October 6
	Pinnaroo		1	-		-	2	-	-	-	-	-	November 2
	Plympton	-	-	-	-	-	1	-	-	-	-	-	December 1
	Point McLeay	-	-	-	-	-	1	-	-	-	-	-	
	Port Adelaide	4	3	10	-	4	4	1	2		2	3	
	Port Augusta	-	-	1	-	-	-	-	-	-	-	-	
	Port Elliot	-	-	-	-	-	-	1	-	-	-	-	The return of pres
	Port Lincoln	-	1	-	-	-		-	-	-	-	-	year is as follows, vi
	Port Pirie	-	1	-	-	-	-	-	-	-	-	1	Destitute Asy
	Portland	-	-	1	1	-	2	-	-	-	-	-	
	Prospect	1	1	-	3		1	1	-	-	-	1	Adelaide Gao
	Queenstown	-	-	-	-	1	-	-	1	-	-7	-	Consumptives
	Reynella	-	-	-	-	-	-	-	-	-	1	-	Infectious Di
	Richmond	-	1	-	7	-	-		-	-	-	-	Bacteriologica
	Rose Park	-	1	-	-	2	-	-	-	-	1	- 1	State Children
	Rosewater	-	1	6	-	1	1	-	2	-	-	-	
	Rowland's Flat	-		-	-		-	1	-	-	-	-	T

Localities from w	hich c	ases o	f En	teric	Feve	r we	re rec	e ive	d-co	ntinu	ed.
	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Sandwell	-	-	-	2	-	1	1	-	_		-
Semaphore	-	-	1	-	-	-	_	1	-	1	-
Stirling West	-	-	-	-	-	-	-	-		_	1
Ships, Seamen, fm	-	-	9	_	2	_	1	_	1	2	2
Stockade Reserve	-	-	-	-	_	-	1	-	_	-	-
Stepney	_	1	-	-	_	-	_	_	-	_	-
Strathalbyn		_	_	4	-	1	-	-	-	_	_
Tailem Bend	-	_	-	-	_	_	-	1	-	_	-
Tea Tree Gully	-	2	_	-	1	-		_	_	-	_
Thebarton	-	-	1	_		-	1	_	-	400	_
Torrensville			_	1	_	_	_	-	_	_	_
Two Wells	-	-	-	_	_	_	_	_		_	1
Unley	_		1	1	1	1	_	_			_
Uraidla	-	_	_			1	_	_			_
Victor Harbor	-	_		1	_	2	1	_	1 .		2
Walkerville		2	_	1	1	2	1				
Wasleys	-	-	-	1	_	_	_	_			-
Welland	_	_	_	_	_	_	3		_	308	1
Westbourne Park	_	-			_	1	1	_	_	Tall y	_
Willaston	_	1	_	1	_	_	_	_	_	1	
Williamstown	1	1	1	_	_	_	1	_	_		100
Willunga	_	-	1	_	_	_	_	_		-	_
Wolseley	_	_		_	1	_	_	_	180		_
Woodville	-	1	_	1	_	2	_	1	DUNE	100	
Yankalilla	_	_	_		_	_	1	_	1981	_	
Yatala	_	1	3	_		1	2	1			
Yorke Peninsula.	_		_		_	_	28	1		_	
Outside State	-	_	_	_		_	_	1	-		
No Fixed Abode.	_	_	_				_	_	100	700	1
						10			17/19/1		•
Totals	52	64 1	05	27	66	86	59	34	14 :	33	60
				4.40 B			1337/1/9	1000	STORE OF	100	-

of the above mentioned were distributed throughout, viz. :-

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
January	8	11	16	7	9	11	22	7	_	7	10
February	11	4	13	6	8	10	12	6	4	6	7
March	8	7	19	12	16	13	4	6	2	6	6
April	2	12	6	13	12	12	6	3	4	4	4
May	8	7	19	18	10	2	3	7	2	3	6
June	3	5	2	1	_	3	2	_	_	1	2
July	-	_	3	3	1	4	2	4	-	2	5
August	2	4	3	-	1	5	1			10000	4
September	1	4	1	1	2	5	2	_	-	1	3
October	6	5	2	3	_	6	1	2	-	2	6
November	2	_	14	1	1	5	2	_	100	1	3
December	1	5	7	7	6	10	2	10	2		4

escriptions made up for other departments during the

Destitute Asylum	3,011
Adelaide Gaol	522
Consumptives' Home	3,255
Infectious Diseases Block	2,858
Bacteriological Block (solutions, &c.)	507
State Children's Department	252
Total	10,405

REPORT, 1921.

The Board of Management was reappointed with the exception of Mr. J. G. Moseley, M.P., and Dr. B. H. Morris was appointed in his place.

Mr. W. G. Coombs was unanimously re-elected Chairman and Dr. R. S. Rogers as Deputy Chairman.

The Chairman (Mr. W. G. Coombs) was granted nine months leave of absence to enable him to visit England.

Mr. T. B. Merry was also granted five months leave of absence.

OBITUARY.

Dr. Benjamin Poulton, Honorary Consulting Surgeon.—The late Dr. Poulton had been closely connected with the Hospital for 40 years as House Surgeon, Honorary Surgeon, and Honorary Consulting Surgeon, during which time he rendered most valuable services to the institution. His strong personality, together with his high professional ideals, won for him the esteem of all.

W. C. Medlyn, Secretary.—Mr. Medlyn had been connected with the Hospital for about 34 years, and for nearly half that period as Secretary, the duties of which he carried out with credit.

HONORARY OFFICERS.

The following honorary officers were appointed during the year :-

Honorary Consulting Physician.—Dr. H. Swift was appointed in appreciation of the many years of valuable services rendered by him as Honorary Physician.

Honorary Medical, &c., Officers.—Dr. Edward Angas Johnson, reappointed; Dr. C. T. C. de Crespigny, reappointed; Dr. William Ray, vice Dr. Swift; Dr. F. S. Hone, new (Verco) ward; Dr. H. Carew Nott, radiologist; Dr. D'arcy R. W. Cowan, asst. Physician, vice Dr. Ray; Dr. S. Roy Burston, asst. Physician, vice Dr. Hone; Dr. A. R. Southwood, asst. Physician, I.D.B., vice Dr. Burston; Dr. D. L. Barlow, clinical pathologist; Dr. W. C. Sangster, clinical asst. ear, nose, and throat; D. G. Roy West, Dr. Gilbert Brown, Dr. P. Santo Messent, anæthetists.

Honorary Dental Surgeons.—Mr. Alex L. White relinquished his duties after many years of valuable services, and the following gentlemen were appointed:—Dr. Arthur Chapman, Dr. W. T. Shanasy, Mr. Frank Swan, Dr. P. Ray Newling, and Dr. E. I. Millhouse

Dr. Shanasy, owing to illness, was unfortunately compelled to resign and Dr. Leonard W. Trott was appointed in his place.

Dr. Arthur Chapman was also appointed Dental Superintendent, giving part time services to the duties of that position.

SECRETARY.

Mr. R. J. Champion, for many years in the office of the Agent-General in London, was appointed, and commenced his duties on the 1st November.

MATRON.

Miss Eleanor Harrald, who on several occasions has acted in the capacity of matron, was appointed to that position on the retirement of Miss Graham.

NIGHT CLINICS.

Dr. Harold Rischbeith and Dr. Phoebe Chapple were appointed surgeons to the male and female departments respectively, and on the resignation of Dr. Chapple, Dr. Rischbieth took over the female department and Dr. Glen H. Burnell was appointed surgeon to the male department.

RESIDENT MEDICAL OFFICERS.

The Government approved of the recommendation of the board to the appointment of two extra officers, one for the infectious diseases block and the other for the new ward.

VERCO WARD.

During the year a new ward was erected on the north of Flinders and Light block, providing 30 beds for male medical cases. This ward was occupied soon after the end of year now under review.

It was decided to name the ward "Verco," in recognition of the many years of valuable gratuitous services rendered by Sir Joseph Verco, K.B., as honorary physician.

GOLD MEDALS.

The following nurses passed first class in the examinations during their probationership, and were each awarded a gold medal:—Constance Leader, Lillie M. Weidenbach.

DENTAL HOSPITAL.

The new building mentioned in my previous report is now in course of erection and in all probability it will be completed and equipped during the coming year.

NURSING STAFF.

Nurses have been granted one day off every week instead of every fortnight as previously. This has necessitated the employment of 20 additional probationers.

X-RAY DEPARTMENT.

Arrangements were made for the purchase of an upright screening stand with reflector costing £200, so as to prevent direct radiation, and as a safeguard to the operator.

BOARD OF MANAGEMENT.

Last session of Parliament an Act was passed to abolish the present board and substitute a controlling board of three members. The Chairman to be the Inspector-General of Hospitals and the two other members, Messrs. W. G. Coombs and J. Wallace Sandford, were appointed by the Governor.

The hospital is declared to be a school of medical and dental instruction in connection with the University of Adelaide, and provision is made for the appointment of an advisory committee consisting of seven members for the purpose of assisting the Council of the University and the board with respect to matters concerning the medical and dental courses.

W. G. COOMBS, Chairman.

CONTRIBUTIONS.

Hospital Reports.—From kindred institutions in and out of the Commonwealth.

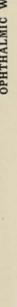
Books, Magazines, Clothing, Produce, Flowers, Etc.—Various Church Societies and kind friends, also Band Concerts by the Military, Vice-Regal, O.B.I., Eastern Suburban, Adelaide City, Red Cross, and others.

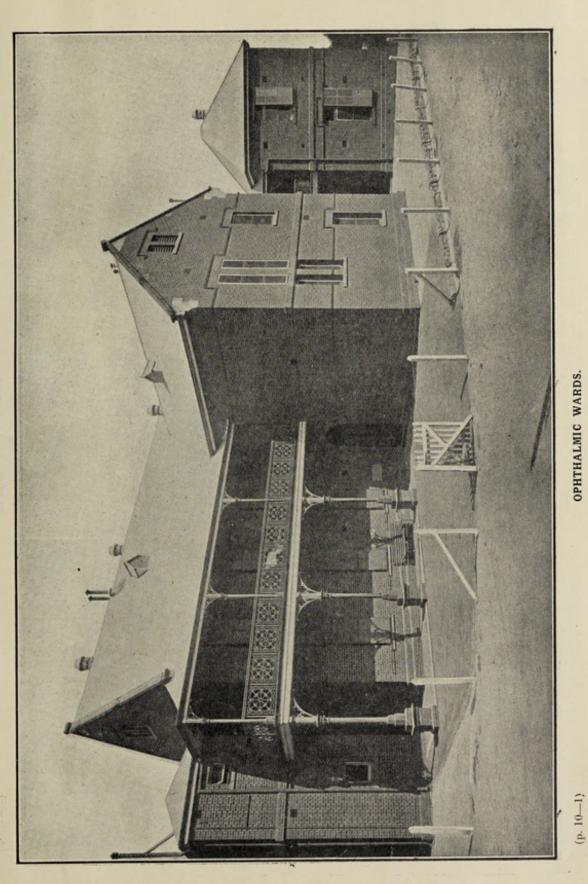
Fruit and Flowers.—Director, Botanic Gardens; Experimental Orchard, Blackwood.

Newspapers.—The proprietors of the Observer, Church Guardian, M.A.N., War Cry, Patriot, Critic, and Barrier Daily Truth.

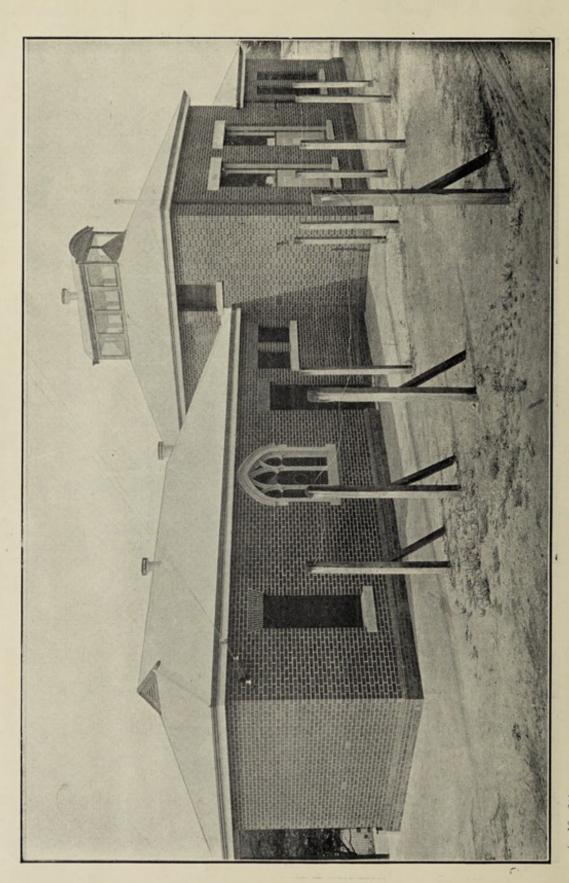
Linen.—Many parcels of old linen were received from various donors.

Number of Attendances during the Year of each Member of the Board.	List of the Honorary and Paid Staff-continued.
Meetings Held, 25.	Honorary Consulting Masseur
	Honorary Biochemist 1
MI, II. CI, Coombo (on search)	Assistant Biochemist 1
Mis. Canca	Honorary Dental Surgeons
Mrs. Edwards	Medical Superintendent
Mrs. Nicholls	
Dr. Hayward 20	Resident Medical Officers
Dr. Hill 7	Secretary 1
Dr. Rogers	Storekeeper 1
Dr. Morris (appointed April 18th, 1921)	Storekeeper's Clerk
Mr. Buttery 10	Collector and Inquiry Officer 1
Mr. Frinsdorf	Clerks 6
Mr. Merry (on leave)	Typiste 1
Mail Macray (on someo)	Dispensers 3
THE TY AND IN TOWN OF THE PARTY	Telephonists
Hon. W. Morrow	Matron 1
Mr. F. W. Lundie	Superintendent Department of Dentistry 1
Mr. Moseley (resigned February 28th, 1921)	House Dental Surgeon, Department of Dentis'ry 1
Mr. Ponder	Clerk, Department of Dentistry
Mr. Robinson	Superintendent of Night Nurses
	Matron Infectious Diseases Block
	Matron Consumptive Home
	Surgical Mechanic 1
Subjoined is a list of the honorary and paid staff of the Hospital,	Surgical Mechanic's Assistant
including the Consumptives' Home, and Infectious Diseases Block,	Assistant X-Ray Department 1
Bacteriological Block, and Department of Dentistry :-	Director Bacteriological Department 1
	Deputy Director do 1 Assistants do 5
Honorary Consulting Physicians and Surgeons	Assistants do
Honorary Physicians 4	Typist do 1
Honorary Surgeons 3	Resident Masseuse 1
Honorary Gynæcologists 2	Assistant Masseuse 3
Honorary Ophthalmologists	Charge Nurses (day)
Honorary Dermatologist	Charge Nurses (night)
Honorary Pathologist 1	Nurse Operation Room 1
Honorary Surgeon for Ear and Throat 1	Charge Nurse (Out-patients' Department) 1
Honorary Clinical Assistant for Ear and Throat 1	Probationer Nurses 141
Honorary Clinical Pathologist 1	Housekeeper
Honorary Radiologist 1	Seamstress
Honorary Anaethetists	Housemaids and Wardmaids
Medical Officers Venereal Clinic	Laundry Forewoman 1
Honorary Bacteriologist in charge Vaccine Department 1	Laundresses
Honorary Assistant Gynæcologists	
	Engineers
	Carpenter
Honorary Assistant Physicians	Cooks and other Attendants 40
Honorary Assistant Physician to Neurology Department 1	Honorary Staff
Honorary Assistant Surgeons	Salaried Staff 347
	A Self-ser of Change Ser and Self-Self-Service Service









APPENDIX No. 2 .- Abstract Statement of Receipts and Expenditure.

RECEIPTS.	£ s.	d.	£	s. d.	Expenditure.	£	8.	
tients' fees 2	2,630 6	8				677	10	
ibscribers' contributions	845 11	10			Medicines, surgical instruments, druggists' sundries 6,	718	13	
lowance by Government of 10 per cent.	Anarona					064	4	
on life contributors' donations	215 11	4				463	17	
adents' fees	516 10					105		
e of drugs, &c. (to Government depart-	010 10							
nents)	302 9	0			Provisions for patients, officers, nurses, and attendants:-			
e of kitchen refuse	320 7				£ s. d.			
	6 10	1			Meat 4,052 3 5			
payments	29 15	1			Bread and flour 1,043 14 0			
dries	117 0	0			Milk 2,990 2 9			
e X-ray plates, &c. (Military)	3000	0			Butter 1,907 10 0			
bate on gas		0			Eggs 1,250 19 11			
rses' bonds forfeited	70 0	0			Groceries, &c 5,001 4 10			
ntal fees	50 17	3			Vegetables, &c 1,321 13 9			
ients' money unclaimed and bank		1			Fish 597 10 6			
nterest	29 9	1			Poultry 983 4 2			
			5,328		Ice 201 11 3			
.M. Government			59,297	18 3	Aerated waters 79 0 6			
				/	Aerated waters	428	15	į
				/	13,	120	10	ı
			/		V	117	-	ı
			/			281	-	,
						36	9	i
10 10 10		/			Clock repairs		3	
	/					997		ı
	/					455	1	į
	/					808	5	-
					printing it brancas by some, some	883	14	į
					Maintenance of patients at Convalescent Hospital	19		į
					Advertising, &c.	105	19	į
					Railway fares for patients and freight	17	7	į
					Electric supply	511	9	
					Brushware, &c	126	9	
					Rent, fire alarm		10	
					Sundries			50
					Books, Medical	61	16	į
					Pharmacy and Anæsthetist's fees	88	4	i
					Repairs by Architect-in Chief's Department	216.	3	ļ
					Nurses' invalid cookery class	15	15	þ
					Funeral services	6	5	,
/					City rates	11	6	ş
					Ambulance charges	148	10	1
					Time and a second	1.0000	131	
			_		Total £64,		_	۳

The above statement does not include Consumptives' Home, Infectious Diseases Block, or S.A. Government Laboratory. The Department of Dentistry is excluded from July 19th.

^{*}The Adelaide Hospital being a Government department, all moneys received are paid into the Treasury, from which all disbursements are drawn.

STATISTICS FOR YEAR 1921.

APPENDIX No. 3.-Medical Statistics, 1921.

Remaining in hospital on December 31st, 1920 Admissions during the year 1921	Males. 201 —	Females. 86	Total 287 5,105
Discharge during the year 1091			5,392
Discharges during the year 1921—			
Cured	1,92	25	
Relieved	2,10	07	
Unrelieved	56	31	
Died	44	19	
Remaining in hospital on December 31st,			
1921-Males, 200; females, 150	34	50	
1021 20100, 200, 100000, 200, 200	-	_	5,392
Average number resident daily throughout the y	ear		372
Mean residence of each patient in days			23
Number of out-patients attended during the			
			3,821
Number of attendances of out-patients during th			18,997
Number of attenuances of out-patients during of	ie year	* *	10,001

Classification of Diseases of Patients Discharged for Year ending December 31st, 1921.

	Males.	Females.	Total.	Cured.	Relieved.	I. S Q.	Died.	Still in.
I.—GENERAL DISEASES.								
1. Typhoid fever	45	20	65	31	20	-	7	7
2. Typhus fever			-			-	_	**
1. Malaria	4	-	4	_	3			1
4a. " including malarial cachexia	-	-	-	-	-	-	-	=
5. Smalt pox	-	-	-	-	-	-	-	-
6. Measles	-	-	-	-	-	-	-	-
7. Scarlet fever	2	1	3	100	-	3	-	-
8. Whooping cough	2	6	8	1	- 2		-	-
0. Influenza	8	10	18	9	7	5	1	-
11. Miliary fever	_	-		-			-	1
12. Asiatic cholera	=		-	-	_	=		
14. Dysentery	-	-	-	-	-	-	_	_
5. Plague	-	-	-	-	-			**
6. Yellow fever	-	-	-		-	-	-	-
7. Leprosy	-	-	-	-	-	-	-	-
8. Erysipelas	-	1	1	-	1	-	-	-
9. Other epidemic diseases 0. Purulent infections and sep-	20		-	18	-	-	-	
ticemia	20	14	34	10	9		5	163
1. Glanders	_	_	_	-	_	-	1230	
2. Anthrax	-	-	_	-	_	-	-	-
3. Rabies	-	-	-	-	-	_		
4. Tetanus	2	2	4	-	-		4	1
25. Mycoses	-	-	-			-	-	-
26. Pellagra 27. Beriberi	-	-	-	-	-	-	-	-
28. Tuberculosis of the lungs	-	-	_	_	-	-	-	-
29. Acute miliary tuberculosis	93	51	144	-	31	73	27	1
30. Tuberculous meningitis	1	3	2	-		-	2	-
31. Abdominal tuberculosis	2	6	4 8	-	-	1	3	
32. Pott's disease	1	1	2	1	3	1	3	1
33. White swellings	2	3	5	t	2	2		
34. Tuberculosis of other organs	24	17	41	11	20	4	_	
35. Disseminated tuberculosis	-	1	1	-	-	1		1
36. Rickets	-	-	-	-	-	-	-	-
A.—Primary	2	-	2	-	2	-	-	-
B.—Secondary	7	13	20	1	11	5	1	
DHereditary	11	8	19	-	12	4	1	12
EPeriod not s ated		_	_		-	-	-	
384. Soft chancre	1	1		1	-	-	-	1
38g. Gonococcus infection	52	17	69	7	46	16		1
39. Cancer and other malignant	33	2	35	8	17	6	4	
tumors of the buccal cavity			33		-1			
40, Cancer and other malignant	34	13	47	1	9	24	11	
tumors of stomach and liver						13	4	1
41. Cancer and other malignant	15	9	24	2	10	8	3	
tumors of peritonseum, in- testines, and rectum								
42. Cancer and other malignant		-	200			TOWNS.		
tumors of the female genital	-	20	20	-	4	10	4	

Classification of Diseases of Patients Discharged for Year ending
December 31st, 1921. - continued.

December 31	st, 19	21	conti	nued				
	Males.	Females.	Total.	Cared.	Relieved.	.8.4.	Died.	Still in.
I. GENERAL DISEASES con- tinued.			-	-	-	-	-	
43. Cancer and other malignant tumors of the breast	-	15	15	-	11	1	1	2
44. Cancer and other malignant tumors of the skin	24	-	24	5	10	7	-	2
45. Cancer and other malignant tumors of other organs and	52	18	70	12	33	15	8	2
of organs not specified 46. Other tumors (tumors of the female genital organs ex- cepted)	20	4	24	12	6	5	-	1
47. Acute articular rheumatism 48. Chronic rheumatism and gout	60	43	103	27	57	2 3	1	16
49, Scurvy 50. Diabetes	20	32	52	2	27	7	11	-
51. Exophthalmic goitre 52. Addison's disease	1	7	8	1	7	=	=	5 - 5 - 1
53. Leucæmia	3	58	8	-	2	3	3	_
54. Anæmia ehiorosis 55. Other general diseases	17	4	25	3 2	10	3	5	5
56 Alcoholism (acute or chronic) 57. Chronic lead poisoning	51	14	65	8	49	4	3	1
58. Other chronic occupation poisonings	-	-	-	-	-	-	+	-
59. Other chronic poisonings	-	-	-	-	-	-	-	-
II.—DISEASES OF THE NER- VOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.								
60. Encephalitis	3 7	3 2	6		3		36	- 1
62. Locomotor ataxia	8		11					
63. Other diseases of spinal cord 64. Cerebral hæmorrhage, apo- plexy	24 21	14	30	1	16 7	4 4	2 21	- 2
65. Softening of the brain 66. Paralysis without specified cause	22	15	37	=	17	13	5	2
67. General paralysis of the insane 68. Other forms of mental aliena- tion	13	25	38	- 2	t 9	23	2	- 2
 Epilepsy	22	9	31	3	12	15	1	
71. Convulsions of infants	-	- 8		-	-	-	-	-
/3A, HVSteria	10	14	10	1 2	16	6	=	4
73n. Neuralgia and neuritis 74. Other diseases of the nervous system	21 28	28	34 56	7	23 29	18	=	2
75a. Follieular conjunctivitis 75b. Trachoma	-	-	-	-	-	-	-	-
75c. Other diseases of the eyes and their annexa	161	81	32 242	1 49	143	27	1	7 22
76. Diseases of the ears	30	16	46	14	26	1	-	5
IIIDISEASES OF CIRCULA- TORY SYSTEM.						-		
77. Pericarditis	1	-	1	-	-		-	1
78. Acute endocarditis	74	35	109	-	49	-4	8 47	- 8
80. Angina pectoris	1	-	1	-	1	-	-	-
roma, aneurism, etc.	31	6	37	-	17	10	10	-
 82. Embolism and thrombosis 83. Diseases of the veinsVarices, 	66	54	7	69	34	-6	5	10
hæmorrhoids 84. Diseases of the lymphatic	6	4	10		6		1	13
system, lymphangitis, etc. 85. Hæmorrhage, other diseases of the circulatory system	6	5	11	4 2	8	1	_	_
IVDISEASES OF RESPIRA- TORY SYSTEM.								
86. Diseases of the nasal fossæ	8		12				!	1
87. Diseases of the larynx 88. Diseases of the thyroid body	7 -	5 5 9	13	3	9 5	=	1 2	- 2
	-	1	-	1		1	1	Land

Decemost of	,, ,		-cont			-	-	-
			7000	1	7		100	
	68.	ale	-	ed.	Relieved	9		=
	Males.	Females.	Total.	Cured.	Reli	I. 8.	Died.	Still In
V.—DISEASES OF RESPIRA- TORY SYSTEM—continued.		000		-				
89. Acute bronchitis	12	9	21	5	15	-	1	_
90. Chronic bronchitis	23	26	49	18	24 11	3	3 6	I
92. Pneumonia	130	61	191	87	50	4	40	10
93. Pleurisy 94. Pulmonary congestion, pul-	42	24	-	-	30	3	9	3
95. Gangrene of the lung	_	1	1	-	_	_	ı	_
96. Asthma 97. Pulmonary emphysema	IO	3	13	=	11	-1	1 2	1
98. Other diseases of respiratory	15	11	26	5	15	1	3	2
system, tuberculosis excepted								
				33				
VDISEASES OF THE DIGES-								
TIVE SYSTEM.								
99a. Diseases of the teeth and	1	2	3	1	-	2	-	-
99s. Other diseases of the mouth	2	-	2	-	1	1	-	-
and annexa 100. Diseases of pharynx	47	90	***	91	42	1	2	. 1
101. Diseases of œsophagus	-	-	137	5	-		-	
103. Other diseases of the stomach	64	9 42	106	21	69	10	2	10
(cancer excepted) 104. Diarrhœa and enteritis under	_	_		-	_	_	-	_
2 years 105. Diarrhœa and enteritis, 2	31	14		18	18	1	4	4
years and over 105A. Including due to alcoholism	_		45	_	100			1
106. Ankylotomiasis	-		=	=	-	-	-	=
108. Appendicitis and typhilitis	152	139	291	215	42	7	6	21
109 Hernia, intestinal obstruction 110a. Diseases of the anus and	150	41 7	191	127	4I 9	7 8 1	9	6
fæcal fistulas 110a. Other diseases of intestines	8		25	3			1	3
111. Acute yellow atrophy of the	-	7	15	-	9	-2	-	_
112, Hydatid tumor of the liver	12	6	18	2	9	1	2	4
113. Cirrhosis of the liver	4	4	8	=	3	1	1	3
114. Biliary calculi	14	24 29	28	18	6	1	1 2	2
116. Diseases of the spleen 117. Simple peritonitis (non-puer-	-	-	43	-	19	-	-	-
peral)	9	29	38	13	12	3	8	2
118. Other diseases of the diges- tive system (cancer and	1	1	2	-	-	-	1	1
tuberculosis excepted)				Vidas I	1			-
			1333		Inter			
VINON-VENEREAL DISEASES		-			110			
OF THE GENITO URINARY SYSTEM AND ANNEXA,								
119. Acute nephritis	6	18	11	2	7	2	-	-
121. Chyluria 122, Other diseases of the kidney	43	-	61	3	23	5	26	4
and annexa	30	32	62	15	32	11	1	3
123. Calculi of the urinary passages 124. Diseases of the bladder	14	15	29 35	10	14	1 4	I 4	3
125. Diseases of the urethra, urinary abscess, etc.	36	16	52	16	28	4	3	1
126. Diseases of the prostate 127. Non-venereal diseases of the	27	-	27	6	8	2	8	3
male genital organs	19	-	19	6	12	-	-	1
128. Uterine hæmorrhage (non- puerperal)	-	4	4	-	1	3	-	-
129. Uterine tumors (non-cancer- ous)	-	34	34	26	2	2	3	1
130. Other diseases of the uterus 130a. Metritis	-	-	1 =	-	-	-	-	-
130B. Other diseases of the uterus	-	190	190	109	62	9	1 2	8
131. Cysts and other tumors of the female genital organs	-	38	38	27	5	1	3	3
132. Salpingitis and other discases of female genital organs	-	118	118	59	46	2	2	9
133, Non-puerperal diseases of the breast	2	5	7	3	3	-	1	-
11		1	1	1	1	1		1

Classification of Diseases of Patients Discharged for Year ending December 31st, 1921.—continued.

Classification of Diseases of Patients Discharged for Year ending December 31st, 1921.—continued.

December 31	st, 19	21	conti	inued				
		. 1	1		.			-
	. 68	Females.	4	ed.	Relieved	ö	1	Ë
	Males.	Fem	Total.	Cared	Reli	I. S.	Died.	Still In
VII.—THE PUERPERAL STATE.				20				
134	=	=	=	-	-	-	-	-
134s Accidents of pregnancy 135. Puerperal hæmorrhage	-	265	265	215	20	20	2	8
136. Other accidents of labor	-	34	34	20	12	=	1	1
137. Puerperal septicæmia	=	34	34	13	5	1	13	2
convulsions 139, Puerperal phlegmasia alba	_	_	_	-	-		_	
dolens embolus and sudden death		0	1.000	and a				
140. Following childbirth, not otherwise defined	-	-	-	-	-	-	-	-
141. Puerperal diseases of the breast	-	3	3	2	1	-	-	-
VIII DISEASES OF THE	100			100				
SKIN AND THE CELLU- LAR TISSUE.								
142. Gangrene	5	-	5		4	. 1	-	-
143. Furuncle 144. Acute abscess	36	8 26	62	27	26	2	3	4
145a. Trichophytosis	4	1 2	6	4	2	_	=	
and annexa	112	46	158	51	89	5	2	11
					100			
IX.—DISEASES OF THE BONES AND ORGANS OF LOCO- MOTION.								
146. Diseases of the bones, tuber-	36	24	60	18	3.3	3	1	5
culosis excepted 147. Diseases of the joints, tuber- culosis and rheumatism	30	16	46	9	28	4	1	4
excepted 148. Amputations	8	ī	9	3	3	_	1	2
149. Other diseases of the organs of locomotion	26	8	34	11	17	3	2	1
2		zun						
XMALFORMATIONS.	1000					10		
150. Congenital malformations, stillbirths not included	6	11	17	6	9	1	1	-
			. 30	inn			JA.	
XI. — DISEASES OF EARLY INFANCY.								
151a. Nurslings discharged from Hospital without disease	-	-	-	-	-	-	-	-
151s. Congenital debility, icterus, and sclerema	-		-	1000		-	-	-
152. Other diseases peculiar to early infancy	-	-	-	-	-	-	-	-
153. Lack of care	-	-	-	-	-	-	-	-
VII OUD LOD								
XII.—OLD AGE.	119							
154. Senility	12	8	20		4	10	5	1
XIII. — AFFECTIONS PRO- DUCED BY EXTERNAL CAUSES.								
155. Suicide by poison	3	2	5	2	2	-	1	-
157. "hanging or strangu-	-	-	-	-	-	-	-	-
158. " drowning	2	-	2	1	-	-	-	1
160, " cutting or piercing instruments	1	-	1	-	1	-		-
161. " jumping from high places	140	-	-	4	-	-	-	-
162. " crushing	-	-	-	-	-	-		-
	-					8		

	Th					TT			
Classification of Diseases of December 31s						Year	r end	eng	APPENDIX No. 4.— Operations for 1921—continued.
	1	,	-		-1				OPERATIONS ON THE THORAX.
	ź	ales	-:	-j	Relieved.	9		In.	Drainage of empyema
III AFFECTIONS PRO-	Males	Female	Total.	Cured.	e e	oc	Died.	Still	OPERATIONS ON THE ABDOMEN.
DUCED BY EXTERNAL CAUSES, -continued.	N	24	Ě	0	24	H	9	ž	Laparotomy for—
									Appendicostomy
3. Other suicides	1	-	1	I	-	-	-	-	Appendicectomy or drainage
4. Poisoning by food	_	=	=		=		Ξ	-	Gastro-enterostomy
5B. Other acute poisonings	2	1	3	3	_	_	_	_	Operations on hile ducts and call bladder
6. Conflagration	4 8	3 6	7		3				Operations on bile ducts and gall bladder
7. Burns, conflagration excepted			14	6	5	-	1	2	Colotomy
8. Absorption of deleterious gases, conflagration excepted	-	-		-	-	-	-	-	Relief of intestinal obstruction
9. Accidental drowning	-	1	T	-	1	-		_	Enteroanastomosis
0. Traumatism by firearms	20	5	25	II	10	1	2	1	Exploratory laparotomy
l. " cutting or	27	1	28	12	14	1	1		Gastrostomy
piercing instruments 2. Traumatism by fall	29	4	22	0	22	1	-		Gastric and duodenal ulcer
3. " in mines and	2	4	33	2	-	-	-	1	
quarries									GYNÆCOLOGICAL OPERATIONS.
. Traumatism by machines other crushing	6	-	6	3 8	6	_	=	1	Cæsarean section
5. " other crushing 5. Injuries by animals	13	1	14	0	-		-		Operation for ectopic gestation
A. Over-exertion	-	_	_	_	_	-	-		Operations for uterine displacements
B. Starvation	-	-	-	-		-	-		Hysterectomy
S. Excessive cold	-	-	-	-	-	-	7	-	Salpingo-oöphorectomy or salpingectomy
9. Effects of heat	2	3	5	3	1		1	_	Ovarian and parovarian cysts, removal of
. Electricity, lightning excepted	-	-	-	-	-	-	100	-	Plastic operations on cervix and perinæum
2. Homicide by firearms	-	-	-	-	-	-	-	-	Posterior solvetowy
Homicide by cutting or pierc- ing instruments	-	-	-		-	-	-	-	Posterior colpotomy
. Homicide by other means	-	_	-	_	_	-	-	0.311	Curettage
A. Dislocations	9	4	13	5	6	_	-	2	Vaginal examination
B. Sprains	4	1	5	1	3	1	-	-	Unclassified
C. Fractures, cause not specified C. Other external violence	176	40 12	216	86 43	86	5	20	25	Myomectomy
Some Caterina Fiorence IIIII	0,	**	99	43	4/	3		3	OPERATIONS FOR GENITO-URINARY ORGANS.
V.—ILL-DEFINED DISEASES.									Nephrectomy
V.—ILL-DEFINED DISEASES.									Nephrotomy
7. Ill-defined organic disease	9	7	16	2	2	-	-	12	Nephropexy
S. Sudden death	-	-	-	-	-	-	-	-	Cystotomy
9a. Disease not specified or ill-	-	-	38	-	-	-	-	-	Cystoscopy
defined	23	15	30	5	14	13	5	1	Prostatectomy
by No dispass falamed discours	12	11	23	2	1	20	-	-	
os, No disease, leighed disease	-							1000	Urethrotomy
	-					-6.	-	-	Urethrotomy.
Grand total	2,916	2,476		1,925	2,107	56t	449	350	Urethral dilatation and catheterisation
	-	2,476		1,925	2,107	561	449	-	Urethral dilatation and catheterisation
Grand total	2,916		5,392	1,925	2,107	561	449	-	Urethral dilatation and catheterisation Circumcision Radical cure of—
Grand total	-		5,392	1,925	2,107	56t	449	-	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele
Grand total	2,916 PENDI	x No	5,392		2,107	561	449	-	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele
APP OPERAT	2,916	x No	5,392 0. 4. OR	1921.			449	-	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele Undescended testis
APP OPERAT OPERATIONS ON	PENDING EAR,	x No	5,392 O. 4. OR 1	1921. ND T	чво.	AT.		350	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele
APP OPERAT OPERATions on emoval of adenoids or tonsi	PENDICION:	x No S FO Nos	5,392 D. 4. DR 1	1921. ND T	чво.	AT.		350	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele Undescended testis
APP OPERAT OPERATIONS ON emoval of adenoids or tonsi rainage of antrum of Highn	PENDING EAR, ils	x No S FO Nos	5,392 D. 4. DR 1	1921. ND T	чво.	AT.		350	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele Undescended testis Removal of testicle OPERATIONS ON RECTUM AND ANUS.
APP OPERAT OPERATIONS ON emoval of adenoids or tonsi rainage of antrum of Highn asal polypus, removal of	PENDING EAR, ils	x Nos S FO	5,392 D. 4. DR 1	1921. ND T	чво.	AT.		350 - 256 - 6 - 26	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele Undescended testis Removal of testicle OPERATIONS ON RECTUM AND ANUS. Operation for hæmorrhoids
APP OPERATIONS ON emoval of adenoids or tonsi rainage of antrum of Highm asal polypus, removal of ccision of turbinals	PENDING EAR, ils	x Nos S Fo	5,392 D. 4. DR 1	1921. ND T	гнво.	AT.		350 - 256 - 6 - 26 - 95	Urethral dilatation and catheterisation Circumcision Radical cure of— Hydrocele Varicocele Undescended testis Removal of testicle OPERATIONS ON RECTUM AND ANUS. Operation for hæmorrhoids
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Appe	NDIX No. 4.—Operations for 1921—continued.	
	OPERATIONS ON JOINTS.	
	dislocations under anæsthesia	5
	••••••	9
Excision	••••••	9
		9
	MISCELLANEOUS OPERATIONS.	4.1
Suturing of wo	ounds and tendons	18
Removal of for	reign bodies	2
Drainage of ab	oscesses	43
	adhesions	3
	bursitis	4
Examinations	under anæsthesia	3
		5
Examining sin	uses	4
Removal of en	larged lymphatic glands for various causes	20
Tenotomy		3
	penail	3
		47
Nerve suture .		2
		6
	sserian ganglion	1
	on on face and jaw	14
Bone grafting		5
	OPERATIONS ON BLOODVESSELS.	
Damanal of an		
	ricose veins	15
	ns on blood vessels	2
Diood transius	sion	7
		91.0
OPERATION	IS FOR DISEASES CAUSED BY ANIMAL PARASITES.	3
	er	4
		2
2-11-72		
DENTAL OPER	ATIONS	-
		- 3
	OPERATIONS FOR REMOVAL OF TUMORS.	
		233
Mangnant tum		14
	lips	12
	tongue	10
	jaw	4
	penis	4
	rectum breast	_
	other organs	15
	Other organis	13
Benign Tumore	-	
		- 13
Goitre (inc	cluding exophthalmic)	7
		7
		34
		3
FIDIOIDS.		4
		4 2
Lipoma .		4 2 5
Lipoma . Cysts		4 2 5 4
Lipoma . Cysts Other tumors .		4 2 5

X-RAY DEPARTMENT.

The work in the X-Ray Department continues to increase, as is evidenced by the number of radiographs taken during the year, evidenced by the number of radiographs taken during the year, viz., 3,295, distributed as follows:—Out-patient department, 556; Adelaide ward, 348; Albert ward, 343; Light ward, 240; Faith ward, 283; Beatrice ward, 20; Martin ward, 340; Victoria ward, 364; Dorcas ward, 246; Alfred ward, 56; Flinders ward, 124; Ophthalmic ward, 54; Theatre ward, 7; Alexandra ward, 152; Hope ward, 14; daCosta ward, 16; Leopold ward, 110; Wyatt ward, 10; Nurses' sick room, 12; total, 3,295.

Considering the existing conditions of want of space lock of

Considering the existing conditions of want of space, lack of accessory apparatus, and understaffing, the work of the department has been good, but not up to the standard that should prevail in a large institution. It is hoped that these needs will be supplied in

the near future.

Owing to the wants noted above and in order to cope with the increasing demand for radiographic work, it has been necessary to temporarily discontinue most of the radiotherapeutic work.

MEDICAL ELECTRIC DEPARTMENT.

The number of patients treated were:-	
In-patients	43
Out-patients	38
Treatments given	1,566
Daily average	10
Separate cases treated, 81, made up as follows:—	
Reactions tested	16
Paralysis	20
Neuritis	11
Fracture	5
Rheumatism	11
Muscular weakness	9
Various	9
Patients under treatment in Hospital, December 31st.	
1921 (2 in, 15 out)	17

MASSAGE DEPARTMENT.

mi i di	
The number of patients treated were :-	
In-patients	204
Out-patients	136
Total	340
Average number of patients each day (3 days a week)	38
The actual treatment given numbered	6,696
Patients under treatment in Hospital, December 31st	
1921 (11 in and 32 out)	43
Cases treated were as follows:—	
Fractures	145
Loss of muscular tone	
Sprains and injuries	68
Paralysis	26
Rheumatism	44
Neuritis	12
Various	28

During the year this department was reorganised. A resident masseuse and three part-time assistants were appointed. Additions to the equipment have also been made.

Since September 1st a daily average of 13 patients (indoor) have been treated.

APPENDIX No. 5 Life Contributions.			1	APPENDIX No. 5 Life Contributions-continued.			
1870.	£	8.	d.	1902.	£	8.	d.
Advertiser Companionship, Waymouth Street		0	-	W. Clark	25	0	0
			-	L. G. Robinson	25 21	0	0
1872.				W. C. A. Lodge (S.A.R. Hospital Fund) J. P. Thomas (S.A.R. Hospital Fund)	21	0	0
Rounsevell, W. B., Grenfell Street	20	0	0	G. W. Ward (S.A.R. Hospital Fund)	21	0	0
				1903.			
W. t. J. P	100	0	0	T. French (S.A.R. Hospital Fund)	20	0	0
Waterhouse, J., Executors of	100		0	1004			
1875.				W. C. Williams (S. A. R. Hospital Fund)	26	10	6
Maclean, Donald, Prospect Hall	20	0	0	W. Davies (S.A. R. Hospital Fund)	26	10	6
				P. Worth (Worth Bros.)	20	0	0
1877.	***			1905.			
Port Adelaide Working Men's Association	52	10	0	H. Wyatt (S.A.R. Hospital Fund)	21	9	4
****				G. D. Clarke (S.A.R. Hospital Fund) J. Dunn (S.A.R. Hospital Fund)	21		
1878. Port Adelaide Working Men's Association	26	5	0	J. Duni (S.A.R. Hospital Pully)			100
South Australian Football Association		0	0	1906.		20	12
				J. W. Spurr (S.A.R. Hospital Fund) S. Crowley (S.A.R. Hospital Fund)		17	
1879.	910			S. Clowley (S.A.R. Hospital Pana)	20		
Clark, William, Angaston Port Adelaide Working Men's Association	20 26	5	0	1907.	-		
Fort Adelaide working men a Association	20		ľ	D. W. Fisher (S.A.R. Hospital Fund) W. J. Ross (S.A.R. Hospital Fund)	22	9	6
1880.				W. H. Carpenter (S.A.R. Hospital Fund)	22	9	6
Port Adelaide Working Men's Association		0	0	S. James (S.A.R. Hospital Fund)	22	9	6
Thorngate, William, Trustees of (care Hon. C. C. Kingston)	30	0	0	1908.			
				Barker, John (S.A. Jockey Club)	20	0	0
1881.	05			Ware, A. W. (Tattersall's Racing Club)	21	0	
Port Adelaide Working Men's Association	25	10	0	Cruickshank, R. (Port Adelaide Racing Club)	20	9	0
modulings, in mi, came occer, in the				Stan ey, M. J. (S.A.R. Hospital Fund)	21	9	0
1882.				Phillips, C. (S.A.R. Hospital Fund) Kempton, W. (S.A.R. Hospital Fund)	21	9	0
Hales Bros., Currie Street	20			acupon, it (cities acopini a sun, it			
Samuel J. Jacobs, of Jacobs, Chas., & Sons, Currie Street Rounsevell, Hon. W. B., Grenfell Street	20 30		0	1909.		-	13
Mountering Mon 11 D, Grenton Street 111111111111				Goudie, Peter (Port Adelaide Racing Club)	20	0	0
1883.				Lewis, Harry (Port Adelaide Racing Club)	20	0	0
d'Arcy-Varna, Constance Emblyn	20	0	0	1911.			
				Howie, R. E. (Port Adelaide Racing Club)	20	0	0
1885.				Brown, John Norton	20	0	0
Simpson, A., & Son, Gawler Place	100	0	0	"M.A.M."	20	0	0
1000			1	1912.			
Weidenhofer, J. H.	20	0	0	Benson, Dr. A. V. (Port Adelaide Racing Club)	20	.0	0
Wm. Burford, of Burford, W. H., & Sons	100	0	0	Sobels, T. O. (Port Adelaide Racing Club)	20	0	0
				1913.			
1890.	00		0	Cutten, A. C. (Port Adelaide Racing Club)	20	0	0
Barker, Alfred James Stock, W. F. (executors of the late H. L. Vosz)	20 20	0	0	Hills, Miss Annie R.	20	0	0
				1914.			
1892.				Pullman, S. J. (Port Adelaide Racing Club	20	0	0
Waterhouse, L.	200		0	1918.			
S.A. Jockey Club	20	0	0	Walkley, Helen May	25	0	0
1894.				1919.			
Wm. Pile (S.A. Jockey Club)	20	0	0	Lynch, Dr. A. F. A. (Port Adelaide Racing Club)	20	0	0
the said the first on the beauty of the raw of				The same and the same of			
1895.		125		Waller, T. J. (Port Adelaide Racing Club)	20	0	0
T. F. Wigley (S.A. Jockey Club)	20	0	0	Slade, H. (Port Adelaide Racing Club)	20 20	0	0
1897.				the production of the contract			
H. Dodds (Central Broken Hill S.M. Coy., in liquidation)	50	0	0	Pullman, S. J. (Port Adelaide Racing Club)	20	0	0
W. Brindal (Australian Natives' Association)	21		0		20	0	

Amounts Paid to the Commissioners of the Adelaide Hospita	l du	ring	the	Contributions Received during 1921—continued.				
Year 1921.	£		d.					
Balaklava Racing Club	1		0		£		1 0	l.
Cave, W. R., & Co.	1	1	0	Kondoparinga	2			0
District Councils of—				MITCHAM	2		_	0
Nairne Port Elliot		1	0	Mount Crawford	2			0
Port Wakeheld	1	1	-	Mudla Wirra North. Munno Para West	2			0
. Talunga	1	i	0	Onkaparinga	2			0
Wallaroo	1	1	0	Faynenam	2			0
Yatala North	1	1	0	l rospect	2	2		ŏ
Hospital boxes McBean, Mrs.		18		Rapid Bay. Saddleworth	2	-		0
MCCartin, M	0		-	Springton	2 2			0
Smith, U. R	1	0		Suring	2			0
SDFV. J. R.	1	0	0	Tatlara	3	3		~
Storemen and Packers' Union Thorngate's Estate		1	0	Tungkillo Walkerville Woodwille	2			0
Ward, S. C., & Co	30		0	Woodville	2 3	-		0
	•	•		Torke Peninsula	2			Ψ.
As to the transport of the same of the sam				Daw, Edwin Desmunda Singh	2			*
				Duncan & Fraser, Limited	5	-		м.
Contributions Received during 1921.	£	8.	d.	Druids Grand Lodge	2			
Aborigines' Department				Lument s Cash Stores	4	6	0)
Abotomey, A., & Sons	5	10	0	Federated Moulders' Union		10		-
Adelaide Liectric I ramways Club	10	-	0	Federated Seamen's Union	10	-		7
" Fruit and Produce Exchange Coy., Limited	2		0	Fire Brigades Board	3.7	10	-	5
" Steamship Company, Limited	25 10	10	0	Fowler, D. & J., Limited	10	10	0	1
Ah Fong and others	21	17	0	Gawler Jockey Club George, W. J.	8	0		
Australian Postal Electricians' Union, S.A. Branch	2	2	0	Ulobe Timber Mills Company	3 2	-		
Bank of Australasia New South Wales	10	10	0		4			
Union, of Australia	5	5	0	Googe, Durrant, & Co., Limited	2	2		
Dell, Jas., & Co., Propty., Lamited	2	2	0	Grand Lodge of Freemasons Haines	5			
DIFKS, Unas, & Co.	2	2	0	Hall, G., & Sons	5 2		0	
Bowman, Keith D. Boilermakers' Society	5 3	0	0	1 Howard Smith, Lamited	10			
Drickyards Union	2	3 2	0	International Harvester Co. of Australia, £2 2s., £2. Islington Division Locomotive and Carriage Works Sick and	4	2	0	
Clarkson, Ltd.	2	0	0	Accident Fund	2	0	0	
Colton, Palmer, and Preston, Limited		10	0	Jesuit Fainers, Norwood	2	2		
Conrad, L.	2 2	2 0	0	Louge of St. John, No. 15, S.A.C.	2	0		
Corporation of—	-	U	U	Martin, C. H. & A. Martin, John, & Company, Limited.	2	2		
Clare	0	0		McHwraith, McEacharn	2	_	0	
Gawler	2 2	2 2	0	Metropolitan Abattoirs Board	10			
Goolwa		2	0	Milne, George Motteram, C. A., & Sons	2	0	0	
Hindmarsh Kensington and Norwood		10		Municipal Tramways Trust	2	2	0	
1 eter borough	5 2	2	0		2	2	0	
Incoarton	5	0	0	Mutooroo Pastoral Company, Limited	5	5	0	
Uniey	5	5	0	Onkaparinga Racing Club	3	3	0	
Crooks & Brooker, Limited	2	0	0	rengellev, A., & Company	15	5 2	0	
Dalgety & Co., Limited Darling, J., & Son	2 2	2	0	Fort Adelaide Co-operative Accident Relief Society	5	õ	0	
District Council of—	2	2	0	Port Adelaide Racing Club. Port Adelaide Working Men's Association	10		0	
Aldinga				Reid, Robt., & Co., Limited	21 2	0 2	0	
Angas	2 2	2 2	0	Michman, J. M	2	2	0	
Balaklava	2	2	0	Alcketts (Oversea) Ltd.	5	5	0	
BlanchetownBremer	2	2	0	Rising Star Tent, I.O.R. (Frank Page, sec.) Rose of Sharon Lodge	2 3	2	0	
Drinkiev	2 2	2	0	Sands & McDougall	2	3 2	0	
Campbelltown	2	2 2	0	Seppert, D., & Sons, Limited	2	0	0	
Caurnamont	2	2	0	S.A. Gas Company, Limited S.A. Gas Company	3	3	0	
Clarendon	2	2	0	S.A. Jockey Club	5 20	5	0	
Craiers	2 2	2 2	0	S.A. Rallway Hospital Fund	261 1	-	9	
Dublin	2	2	0	S.A. Stevedoring Company, Limited	5	0	0	
East Torrens	2	2	0	Wertheim, H. Proprietary, Limited	2	2	0	
Elliston Hall	2	2	0	White, Jas. Wilkinson & Company, Limited Williamson P. & C. I.1.	5	0	0	
Aadina	2 2	2 2	0	** HHAIIISON, Fr., & CO., LIG	2		ô	
Kingscote	2	2	0	Wood, G., Son, & Company Woodroofe, W.		0		
С					3	3	0	

ADELAIDE HOSPITAL.

STATEMENT OF ACCOUNTS FOR THE YEAR ENDED DECEMBER 31st, 1921, IN TERMS OF THE HOSPITALS ACT, No. 306 OF 1884, SECTION 3.

RECEIPTS.	£ 8. a	EXPENDITURE. £ s.
Contributions	845 11 1	Salaries, contingencies (i.e. medicines, provisions, &c.)—
" 10 per cent. on life contributions	215 11	4 Adelaide Hospital
" Commissioners' account	52 13 1	1 Consumptive Home 5,918 3
Fees—Adelaide Hospital	2,630 6	8 Infectious Diseases Block
Consumptive Home	688 9	6 Bacteriological Block 2,970 12
Infectious Diseases Block	3,732 4	Department of Dentistry 644 3
Bacteriological Block	2,301 9	5
Department of Dentistry	50 17	3
Revenue from other sources	1,600 5	1
H.M. Government	67,179 17	
	£79,297 6	£79,297 6

Under the provisions of the Hospitals Act Amendment Act of 1921, the existing board retires on February 28th, 1922.

January 9th, 1922.

R. S. ROGERS, Deputy Chairman.

COMMISSIONERS OF CHARITABLE FUNDS.—ADELAIDE HOSPITAL.

ABSTRACT of RECEIPTS and EXPENDITURE of the COMMISSIONERS of CHARITABLE FUNDS in account with the ADELAIDE HOSPITAL for the YEAR ENDED JUNE 30th, 1921.

	RECEIPTS.				EXPENDITURE.		
TO SEA SHALLOW	To June 30th, 1920.	To June 30th, 1921.	Total.		To June 30th, 1920.	To June 30th, 1921.	Total.
To Sundry bequests. contri- butions, rents, and un-	£ s. d.	£ s. d.	£ s. d.	By Payments for building additions, &c., to Ade-	£ s. d.	£ s. d.	£ s.
claimed patients' fees Special contributions re-	18,341 18 10	58 18 5	18,400 17 3	laide Hospital Succession duty (Wans-	40,653 9 4	-	40,653 9
Government	839 17 8	_	839 17 8	borough bequest) Succession duty (Wil-	59 14 9	-	59 14
Office furniture, Sale of Thos. Martin's bequest—	6 13 6	-	6 13 6	liam Shierlaw's bequest) Refund of contributions	-	135 2 3	135 2
Proportion of capital received from trus- tees	21,200 0 0		21,200 0 0	Interest (premium and discount on bonds, &c.)	50 0 0 31 18 3		50 0 31 18
Proportion of income received from trus-	21,200 0 0		21,200 0 0	Office furniture Martin's bequest—	30 0 0	_	30 0
	15,814 15 2	-	15,814 15	Payment to Children's Hospital on subdivi-	10 mg		
Commissioners	19,089 5 1	2,839 0 1	21,928 5 2	sion of estate Land tax on portions of	650 0 0	_	650 0
S.A. Government se- curities and State Bank bonds	2,302 19 4		2,302 19 4	town acre 86 Additions and improve- ments to buildings on	1,030 3 10	200 1 8	1,230 5
S.A. Government in- scribed stock	254 19 9	45 0 0	299 19 9	town acre 86 Proportion of Commis-	2,500 0 0	_	2,500 0
S.A. Government Trea- sury, trust account		1,965 18 6	12,656 8 9	sioners' fees Clerical services	524 3 0 665 17 2	60 13 9 36 19 4	584 16 702 16
S.A. Government Treasury, Endow-	1 105 10 1	710 0 0	1 040 0 1	Sundry expenses (including law costs)	163 19 0	52 17 3	216 16
Ment Fund Adelaide Corporation bonds	1,125 19 1 4,294 10 0	716 9 0	1,842 8 J 4,294 10 0	£	46,359 5 4	485 14 3	46,844 19
Premiums on corporation bonds sold		_	27 10 0	Department of Dentistry— Proportion of Commis-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	al five
Bank deposits and Sav- ings Bank	2,195 2 9	_	2,195 2 9	sioner's fees and elerical services		27 17 9	27 17
Commonwealth war loan inscribed stock	50 0 0	19 0 0	69 0 0	1	46,359 5 4	513 12 0	46,872 17
Department of Dentistry,	96,233 16 5	5,644 6 0	101,878 2 5	Balance on June 30th, 1 S.A. Government Tre			
Donation from British Red Cross Society		2 -	15,000 0 0	S.A. Government Trea	sury—Trust	37,820 1 6	
Interest at 51 per cent. thereon	-	796 2 7	796 2 7	sccount, Department S.A. Government Tr	easury—Ade-	15,768 4 10	
£	111,233 16 5	6,440 8 7	117,674 5 0	laide Hospital Endo under Act 1209, 19 Commonwealth war le	15	15,523 14 4	
				4½ per cent Commonwealth war l		200 0 0	
		State of the last		5 per cent S.A. Government ins	cribed stock,	200 0 0	# 13 A T
				at 5 per cent., due 1924 S.A. Government ins		200 0 0	
				at 5 per cent., d	ue February	200 0 0	
The same of the same	Will state of	14411		S.A. Government ins at 5 per cent., due	cribed stock, April 15th,		
				Bank of Adelaide—Cu	rrent account	500 0 0 291 0 6	
	Wall Comment			Cash in hand and petty	y cash	28 6 6	70,801 7
	19 1 19 19 19	B Brain	Shows			£	117,674 5

Other property held.—Thos. Martin's bequest—Town acre 86, situated on the south-western corner of Rundle and Pulteney Streets, with the buildings thereon leased to various persons.

P. WHITINGTON.

January 11th, 1921.

P. WHITINGTON, E. M. SMITH, THOMAS GILL,

In conformity with section No. 23 of Act No. 1078 of 1912, I have the honor to report that I have audited the accounts of the Commissioners of Charitable Funds in connection with the Adelaide Hospital, and examined the securities, deeds, and pass-books, and found them correct.

August 19th, 1921.

EDGAR WM. GILES, Commissioner of Audit,

ADELAIDE HOSPITAL.

The Commissioners hold on account of the Adelaide Hospital Endowment Fund the freehold of town acre 86, situated on the south-western corner of Rundle Street and Pulteney Streets, with the buildings thereon, which are leased to various persons at an annual rent of £2,880. The value of this property has considerably increased since it was transferred to the Commissioners in 1913 by the Trustees of the late Thomas Martin, the estimated value at that time for taxation purposes was £45,438. The State land tax assessment of the unimproved value of the land on August 1st, 1920, amounted to £67,730, being an increase of £22,292 on the unimproved value. The Commissioners have during the year made several inspections of the premises referred to above, and where necessary, notices were given to the lessees to have certain repairs and renovations effected. These have been carried out by the lessees concerned, with the exception of portions of the buildings subleased by one of the lessees, which are still in an unsatisfactory state; but the lessee has recently expressed his intention of having the required work done without any further delay.

The Commissioners have in several of their annual reports referred

to the very considerable increase in income that can be obtained from town acre 86 by the erection of first-class modern business premises thereon in lieu of the present old and obsolete buildings. They have the necessary powers to do this, with the consent of the Controlling Minister, under section 7 of Act 1209 of 1915. The cost of building is gradually becoming less expensive, and in the near future the Commissioners consider that they will be justified in submitting the plans and specifications for the proposed improvements to the Hon. the Chief Secretary.

Two leases of portions of this town acre, having a frontage of 58ft. to Rundle Street, will be terminable after September, 1921, on six months' notice, and this frontage can therefore be made available for building purposes. The adjoining 60ft. frontage is held under a lease having 62 years to run, and the Commissioners desire, if reasonable terms can be secured, to purchase the surrender of this lease, so that the extra frontage may also become available for any scheme of general improvements. The Crown Solicitor, however, advises that the Commissioners have no power to use the funds under their control in such a manner; they therefore suggest that the necessary Parliamentary authority be obtained by an amending Act to enable them to purchase the surrender of any lease of which they are or may become the lessors, the acquirement of which in their opinion would be for the benefit of any property vested in them.

ADDITIONS AND REPAIRS TO THE ADELAIDE HOSPITAL

The necessary appropriation by Parliament of £30,000 for additions, etc., to the Adelaide Hospital is included in the Public Purposes Loan Act of 1920, and was voted on the Loan Estimates for 1920-21. The amount has been transferred from the Loan Fund to a special deposit account entitled "Repairs and Additions to the Adelaide Hospital under Act 1209/15." The expenditure on the works will be debited to this account, and the Commissioners will pay the Government 5 per cent. per annum for 30 years on the £30,000, in accordance with section 6 of Act 1209/15.

DEPARTMENT OF DENTISTRY.

REPORT FOR YEAR ENDING DECEMBER 31st, 1921.

On January 1st, 1921, the Department of Dentistry was established in temporary premises by conversion of the Military Dental Department in the Old Exhibition Buildings at Frome Road.

OFFICERS.

Mr. T. D. Campbell was appointed House Dental Surgeon. April 1st the appointment of dental superintendent was accomplished. For the present it was not considered necessary to appoint a full time officer to this position, and a special appointment was madethe services of Dr. Arthur Chapman were secured. Following this, Mr. N. C. Staples was appointed to the position of clerk and storekeeper.

HONORARY OFFICERS.

Five honorary dental surgeons were appointed to the department during 1921, viz.:—Dr. Theo Shanasy, Dr. P. R. Newling, Dr. E. Millhouse, Dr. Arthur Chapman, and Mr. F. M. Swan. During the absence of Dr. Newling, on leave, Dr. L. W. Trott was appointed a temporary hon, dental surgeon, and later was appointed Hon. Dental Surgeon, vice Dr. Shanasy, who resigned on account of ill-

SENIOR DENTAL MECHANIC.

The greatly increased work of the Prosthetic Department made it necessary to make the appointment of a senior dental mechanic. Authority for and the appointment of Mr. Colin E. Joyner to this position has been secured.

Application was made in April for a porter. This, unfortunately, was not granted, but a charwoman was engaged for one half-day daily. This, while partially serving the purpose, does not fully cover the requirement, and the appointment of a full time porter, and also a nursing attendant (female), is a matter for serious consideration for the coming year.

Twenty-four students in the Dental Course of the University of Adelaide-were admitted to the course of instruction and practice of this department during the year.

EQUIPMENT.

The equipment and furnishing of the department has been gradually augmented and greatly improved. Our thanks are due to Messrs. Claudius Ash & Sons, Ltd., of London, for their generous gift of two dental operating chairs.

ADVISORY SUB-COMMITTEE.

To this sub-committee the name of Dr. A. G. Trott has been added, and the conscientious work performed by this body is greatly

NEW BUILDING.

We are pleased to report that the foundations of the new Dental

Hospital are nearing completion.

This building will be situated in the north-west corner of the Hospital Grounds facing Frome Road.

DENTAL OPERATIONS.

The dental operations for year ending 1921 are as under:	_
1. No. of patients examined	461
anæsthetic cases)	1,905
3. No. of fillings	493
4. No. of treatments	318
5. No. of inlays inserted	43
6. No. of crowns inserted	2
7. No. of special appliances (splints)	2
8. No. of bridges inserted	3
9. No. of artificial dentures inserted	175
10. No. of repairs to dentures	22
11. The number of attendances for the year totalled	1,684
12. The number of patients admitted to the department	
for treatment totalled	434
13. The number of patients discharged as dentally fit	
totalled	251

DENTAL FEES RECEIVED.

The fees received for work performed from July 1st amounted to £50 17s. 3d.

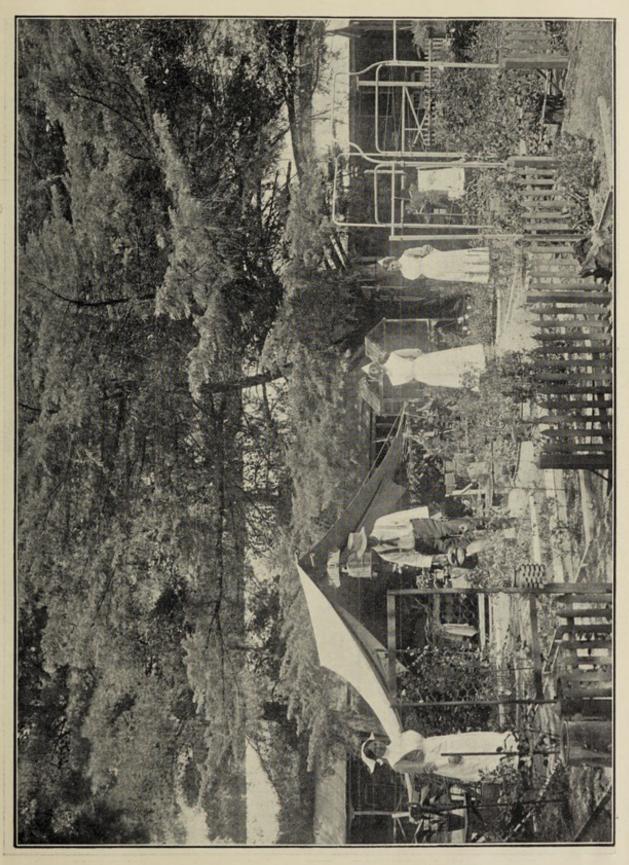
EXPENDITURE.

Amount expended from July 1st was £644 3s. 1d.

GENERAL REMARKS.

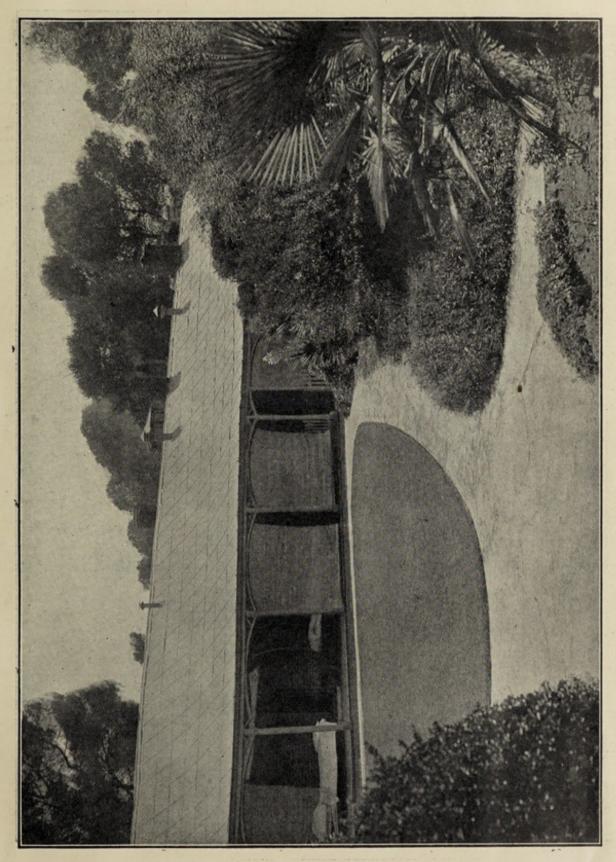
The work of the department has increased markedly in 12 months. the greatest increase being noticeable in the Prosthetic Section. By far the greatest bulk of the work has been done for patients of the first class, viz., "Treatment to the poor who are unable to pay fees." Of 434 patients, 345 were admitted for free treatment. The total gross estimate at full fees is £691 2s., of this, £550 13s. 6d. full fee value has been given to the public free of cost. The 89 patients paying fees (at various rates) to the value of £140 Ss. 6d.

Yours faithfully, ARTHUR CHAPMAN, Dental Superintendent.

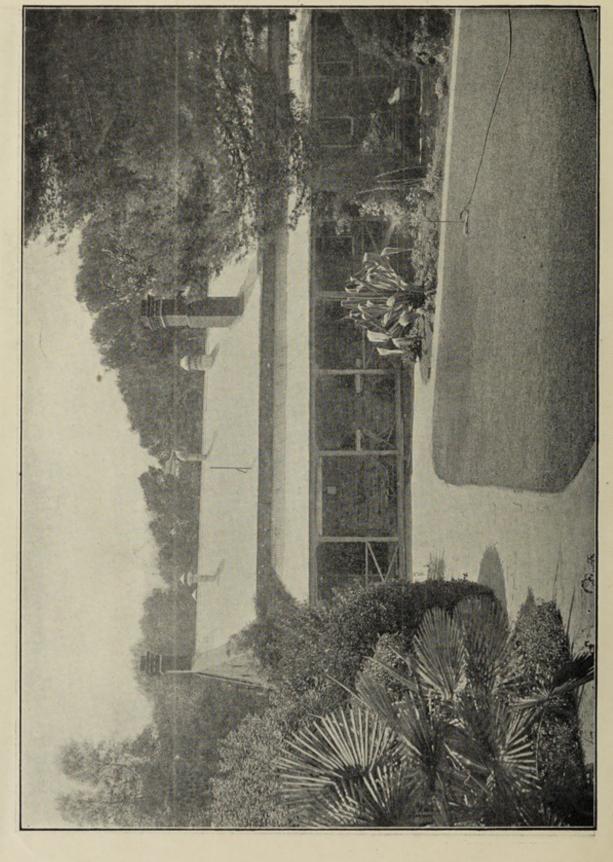








(p. 20-3



(p. 20-4*)

THE CONSUMPTIVES' HOME.

The home is situated on North Terrace; the site is high dry, screened from dust, and from all prevailing winds, and in addition is sunny and pleasant to the eye, with its green grass, flowering shrubs, and framework of large pine trees.

The inmates are thus placed amid nice surroundings, easily accessible to their friends, and taught such methods of individual and collective cleanliness as to be no longer in any way a menace to the health of the

within the home are rooms set apart for library (with hundreds of books, periodicals, and magazines), smoking, billiards (full sized table). billatelle, and other games. A piano and organ are also provided, in fact everything is done to give the patients all the comforts of a good

home, together with the best medical and nursing skill procurable. There are 23 cubicles, three rooms for two patients each, one ward for eight patients, one ward for nine patients, one large bungalow for 12 patients, and four tents for one patient each—giving accommodation for 62 patients.

The buildings have verandahs on both sides, are thoroughly ventilated, the walls and ceilings are varnished and the floors covered with linoleum.

Provision is also made for the treatment of cancer cases, there being 14 single bedrooms devoted to this purpose.

The majority of cases pass through the Consultation room or are transferred from the wards of the General Hospital.

Phthisis.

contract and the contra	M.	F.	Total.	• Di	ed.	Left.	Remaining in Hospital on Dec. 31st, 1920.	
				м.	F.		M.	F.
Remaining in Hospital on December 31st, 1920	26	15	41	_	_	-	-	-
Admitted during year 1921	59	33	92		-	-	-	_
Total treated for the year	85	48	133	34	32	23	35	9

Cancer.

	1 1	1	19		м.	М.	М.	М.	М.	Las El	Total.	Died.		A OLD SERVICE STATE OF THE PARTY OF THE PART		Left.	Remain Hosp Dec. 31	ital on
							mind 8	М.	F.		Ņ.	F.						
Remaining in Hospital on D	ecember 31st	, 1920 .		 	9	5	- 14	_	-		-	-						
Admitted during year 1921				 	39	20	- 59	-	_	-	-	-						
	ted for the ye	ear		 	48	25	73	37	18	4	8	6						

Cancer - Deaths Classified.

		M.	F.	Total.
Cancer of I	Head, Tongue, Jaw, &c	20	1	21
" S	tomach, &c	15	3	18
" F	emale Genital Organs and Breast	-	14	14
	Rectum	1	1-01	1
" 0	Other parts	1	. Jac.	1

Total fees received for maintenance Total expenditure of the Home...... 5,918 3 100 6 2 Average cost per bed occupied Average daily resident, 59.

INFECTIOUS DISEASES BLOCK.

The number of new cases admitted to the block (909) constitutes a record, being 177 more than the previous year's admissions. The deaths totalled 28, a mortality rate of 3.1 per cent.

The increase was mainly shown in the diphtheria cases; 405 were admitted in 1921, 226 in 1920; there were 19 deaths, or a case mortality of 4.7 per cent.

There was a fall in number of scarlatina cases; 166 in 1921, 215 in 1920. With such a volume of work the need for better condition

for dealing with infectious patients was more acutely felt than ever before, and it is gratifying to note that better accommodation is to be provided.

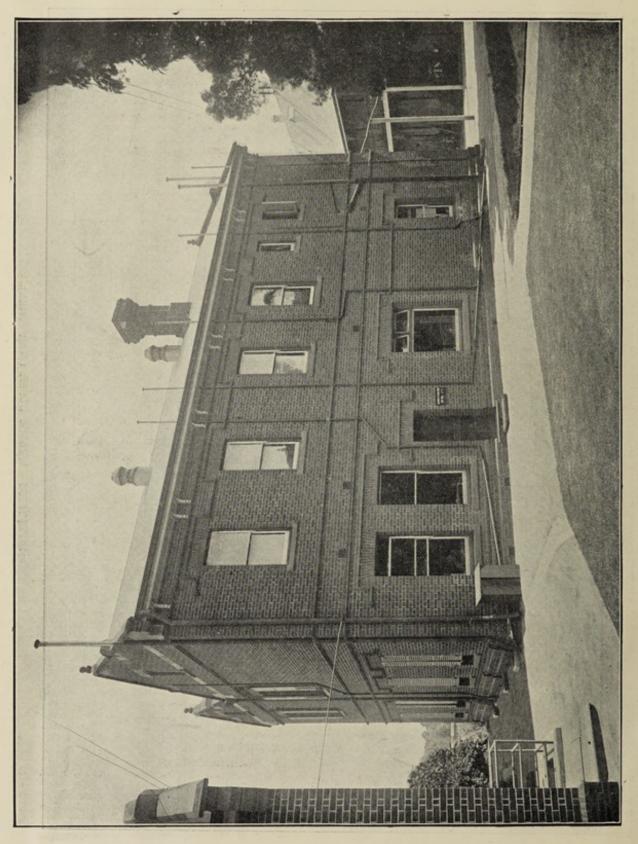
At present there are 87 cubicles, also two double rooms and two dormitories, taking each six beds, and two large sheds for 13 and 8 beds respectively, and now 2 new wards, 20 beds, although fitted up as an influenza block, has been utilised for the reception of scarlatina cases.

INFECTIOUS DISEASES BLOCK REPORT, 1921.

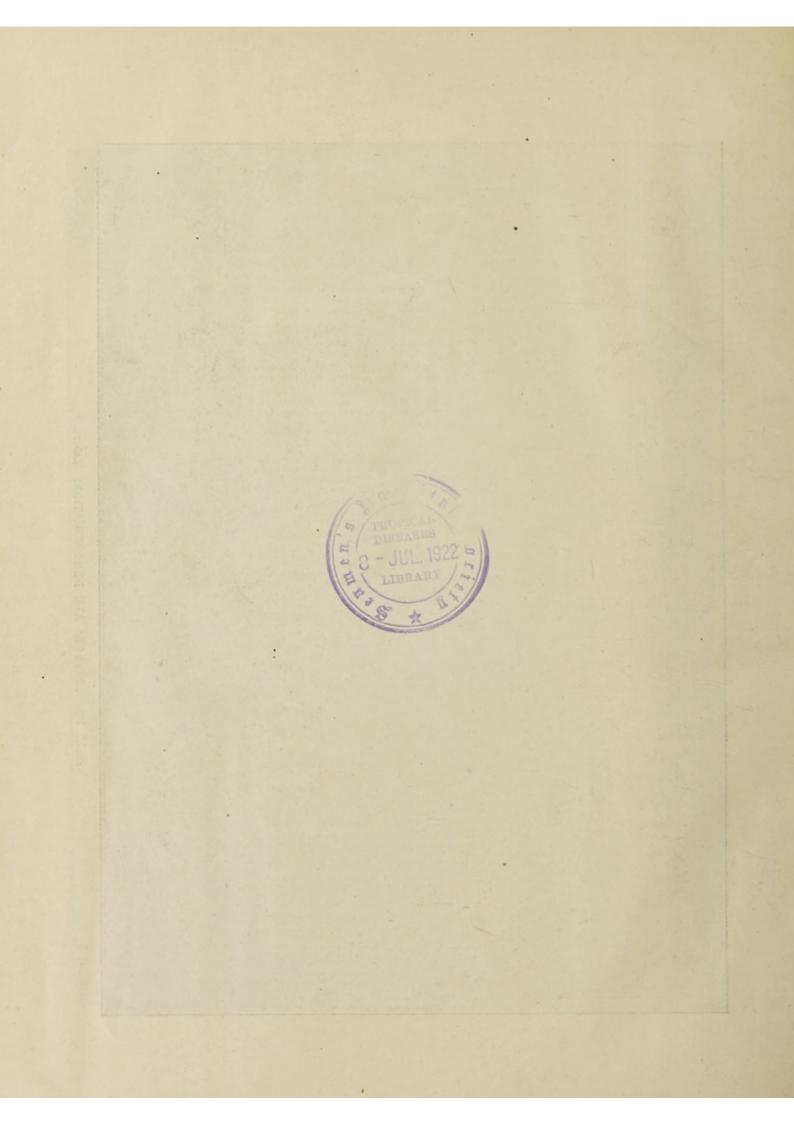
		dmission	18.		Died.	
Disease,	м.	F.	Total.	Cured,	м.	F.
Diphtheria " and scarlatina " " mumps " " measles Scarlatina Measles " and pneumonia " typhoid fever " bronchitis. Fonsillitis (admitted as diphtheria) Whooping cough " and pneumonia Mumps Fyphoid fever Diarrhoea Erysipelas Chickenpox Pneumonia Bronchitis Erythema Heat rash Respiratory catarrh Septicaemia	170 13 2 1 59 42 1 1 1 52 — 1 5 2 1 1 8 8 1 1 4 3 3 4 4 7	235 17 	405 30 2 4 166 73 3 1 1 136 10 1 5 2 2 1 2 2 6 3 4 1	386 29 2 4 166 72 3 1 136 10 - 5 2 1 26 3 4 1	4	15 1 1 1 1 3 3
Remaining in Hospital December 31st, 1921	390	51,9	909	881	8	20

	£	8.	d.	
Total fees received for maintenance	3,732	4	0	
Total expenditure	5,137	11	3	
Average cost per bed	96	18	8	
Average daily resident, i.e., per bed occupied		53		

INFECTIOUS DISEASES BLOCK (Front Portion).



HALL FOR LECTURES AND DEMONSTRATIONS (Laboratory)



SOUTH AUSTRALIAN GOVERNMENT

LABORATORY OF BACTERIOLOGY AND PATHOLOGY,

ADELAIDE HOSPITAL.

STAFF.

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Senior Assistants. MISS E. CLELAND. W. W. KILBORN. D. H. LOWEN.

Clerk. MISS A. BRANNAN.

The laboratory consists of a two-storied building, in which are situated the main working laboratory, inoculating rooms, director's laboratory, assistant's laboratory, museum, library, &c. Adjacent to the main building is a large students' laboratory and lecture hall, with a basement beneath, in which are ice chests and a photo-

The accommodation for laboratory animals is very convenient, and the animals are healthy and well cared for.

A large veterinary experimental block, with loose boxes, pens, and an operating room, is situated about 100yds. away, near the north boundary of the hospital grounds. In this, horses, sheep, &c., can be kept under observation. Appended is summary of work, 1921-

EXAMINATIONS PERFORMED DURING YEAR 1921.

Adelaide Hospital-Clinical Pathological Examinations-313 504 82 (d) Miscellaneous .. Bacteriological Examinations-(c) Urines (d) Smears for gonococci (e) Bloods for Widal reaction 117 146 (f) Miscellaneous 5,830

Private Work- EXAMINATIONS PERFORMED DURING YEAR 1921-contin	ued.
Clinical Pathological Examinations—	
(a) Histopathological	070
(b) Blood counts	373 115
Dacteriological Examinations—	110
(a) Throat and nasal swabs—	
(i.) Boards of Health and Public Departments	4,853
(II.) Others	1.139
(0) Sputa	1,138
	306
(d) Bloods for Widal reaction (e) Miscellaneous	97
Stock Department—	
Routine	9,606
Special investigations	32 5
Wassermann Reaction	37
Adelaide Hospital - Indoor	368
Out Patient's Department	86
Night Chinic	542
Trivate	323
Vaccines Frepared—	1,319
Adelaide Hospital	89
Private	180
	269
	10.500
Less examinations mentioned twice	18,523 592
	992
Grand total	17,931

The Clinical Pathological Examinations performed for the Adelaide Hospital include :- (1) The histological diagnosis of pathological tissues, several of which were immediate examinations performed during operation (such examinations are done in order to help the surgeon in determining the extent and nature of the operation necessary): (2) The examination of urine to detect abnormal chemical and morphological elements; (3) The examination of faces to detect the presence of abnormal elements; (4) The examination of faces to detect the presence of abnormal elements; (4) The examination of cerebro-spinal fluid to detect cellular and chemical change (this examination is extremely useful in detecting syphilis of the central nervous system); (5) The examination of blood to detect the presence of the various anaemias and leukæmias; (6) The examination of material for the detection of spirochæta pallida in the diagnosis of syphilis; (7) The examination of fluids from various cavities and cysts to determine their nature; (8) the examination of blood for the estimation of glucose area proteins for examination of blood for the estimation of glucose, urea, proteins, &c. (These examinations are conducted by the Honorary Biochemist and the Assistant Biochemist.)

The Bacteriological Examinations performed for the Adelaide Hospital include:—(1) The examination of sputum for the detection of tubercle bacilli and other bacteria, and also for hydatid hooklets; (2) The examination of blood for the Widal reaction (this examination is important in assisting in the diagnosis of typhoid fever); (3) The examination of swabs taken from the throat and nose to detect the presence of diphtheria bacilli; (4) The examination of urine to detect the presence of tubercle bacilli, colon bacilli, and other bacteria; (5) The examination of inflammatory fluids for the detection of bacteria, e.g., pleuritic fluid for tubercle bacilli; (6) The examination of cerebrospinal fluid to detect the presence of tubercle bacilli, meningococci, and spinal fluid to detect the presence of tubercie bachi, meningococci, and other bacteria; (7) The cultural examination of blood to detect the presence of bacteria in the circulation; (8) The examination of fæces and urine for the detection of typhoid bacilli and other pathogenic bacteria; (9) The examination of pus for the detection of gonococci, actinomyces, and other bacteria. Bacteria, isolated from the various fluids and materials, are often used in the preparation of autogenous vaccines.

The Wassermann Reaction was performed on Thursday in each week. This reaction is of great value in the diagnosis and treatment of syphilis. There is a general increase in the number of examinations made over those made during 1920.

The examinations performed and classified under the head Private Work include in the main such examinations as described under clinical pathological examinations and bacteriological examinations. Much work was done for the various Boards of Health. Included in the examinations are also:-(1) Examination of various foodstuffs for the detection of bacterial contamination; (2) Examination of drinking water to determine its suitability for drinking purposes. Included under this head is a special investigation carried out for the Adelaide Local Board of Health.

The object of this investigation is to determine at regular intervals the bacterial content of the water as delivered from the Adelaide waterworks

main. This investigation is being continued. (3) The examination of dis-

infectants to determine their germicidal power. (4) The examination of rats in the search for any possible plague (B. pestis) infection.

The routine examinations for the Stock Department include (1) bacteriological examination of cow's milk for the detection of tubercle bacilli; (2) animal inoculation of cow's milk for the detection of B. abortus; (3) bacteriological examination of stomach contents of aborted calf; (4) morbid tissues for histopathological examina-

The investigation into the cause of "forage poisoning" was continued and encouraging results have been obtained. Cultures made from suspected fodder have shown the presence of a toxin-producing anærobe. The toxin resembles that of B. botulinus in its capacity anærobe. The toxin resembles that of B. communes in the digestive of being absorbed through the mucous membrane of the digestive

Investigations were also made into the nature of several diseases

of sheep.

The Vaccine Department, as well as preparing 269 separate vaccines, also administered inoculations of vaccine to hospital patients. During the year 91 hospital patients were under treatment. The majority of these patients visited the laboratory twice a week during their course of treatment when they received their injections. In all, 974 doses of vaccine were administered; also 503 doses of tuberculin were given to 20 patients. Vaccines were prepared for 161 patients under the care of private practitioners, and 1,839 doses (including 32 doses of tuberculin) were supplied for these patients.

The examinations made by the Biochemical Department have more than doubled in numbers. There will be a much greater increase in this work as its value is more fully appreciated.

During the year facilities have been given to the laboratory work involved in the investigation being carried out by the Research Fellow, Dr. Beare, into the nature and cause of infantile diarrhea, for the committee controlling the gastro-enteritis investigation fund.

Accommodation has been found for Dr. Beare and his assistant who have had the use of apparatus and material supplied by this department. Important results, which have helped considerably to advance our knowledge of the bacteriology of these diseases, have been obtained.

Summary.—The figures show approximately 6,000 more examinations made than during 1920. This increase is largely due to the increased number of throat swab examinations. In all departments, however, the numbers are increased, showing that the value of the work is being more generally appreciated.

Much inconvenience is being caused by the want of space for work-

Expenditure £2,970 12s. 4d.

MEDICAL AND SCIENTIFIC ARCHIVES OF THE ADELAIDE HOSPITAL.

Editorial Committee:

J. BURTON CLELAND, Honorary Pathologist. C. T. C. DE CRESPIGNY, Honorary Physician.

ARTHUR M. CUDMORE, Honorary Surgeon.

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THE MEDICAL AND SCIENTIFIC ARCHIVES OF THE ADELAIDE HOSPITAL.

It has long been realised that a mass of valuable information, from a professional and scientific aspect, was being dissipated and to a great extent lost in the Adelaide Hospital and its associated institutions through there being no means available for collecting, systematising, and permanently recording it. This information, the result of the collection of laborious data, of experience, of judgment, confirmed or otherwise by the eventual result, if available in the future by being properly recorded would undoubtedly help to clear up problems in medical science, to assess the values of different methods of treatment, to focus attention on hitherto undifferentiated entities, and to bring about in individual cases of sickness an earlier appreciation of the nature of the disease and a more efficient means of controlling or curing it. The failure thus to record and note all that with advantage should be recorded and noted in the experience of the chief hospital of a large State supported by public funds was unquestionably an instance of waste and of disregard of opportunity that should not be allowed to continue. It is true that in the medical press the most important material may find an avenue for publication, but such avenues are limited in capacity, and have perforce to skim the cream from the work of the whole medical world of Australia and the rest of the British Empire, leaving the skimmed milk of knowledge to be poured down the gutter and wasted instead of-may we use the homely simile without unduly stressing it-fattening pigs thereon. annual issue of these archives is for the purpose of saving, as far as this hospital is concerned, some of this waste, and of making, we trust, useful additions to knowledge by such conservation.

With the above object in view a proposal for the publication of the archives was submitted to a meeting of the honorary staff. This proposal was unanimously endorsed by the members. The Board of Management appreciated the importance of the scheme and supported and recommended its adoption, in which, with foreseeing wisdom, the Government concurred. A committee was then appointed to arrange and carry out details, dealing with the work of the Adelaide Hospital as well as that of the associated bodies, the South Australian Laboratory of Bacteriology and Pathology

and the Dental Hospital.

The committee have decided that these records shall include full information of cases of unusual interest or rarity, the results of series of cases under particular forms of treatment, the summation of the clinical and pathological details of various selected diseases as representing the experience in this State, and the record by short notes of interesting or useful observations, clinical, pathological, bacteriological, or epidemiological by the officers of these respective institutions. In this, the first issue, a commencement is made. Owing to the late period of the year in which the committee assumed its duties the present record must fall far short of the Utopian excellence aimed at.

I.-HYDATID DISEASE.

PART I.—SURGICAL CASES.

(Compiled by C. Turner, Medical Superintendent.) During the year 1921 there have been a number of cases of hydatid disease treated in hospital. Where possible, in addition to radio-graphic and clinical findings, the complement fixation reaction has been carried out by Dr. N. H. Fairley, of the Eliza Hall Institute, Melbourne. The results have shown a positive reaction in practically all cases of hydatid disease, and the negative results have been of considerable aid in arriving at a diagnosis in suspected but doubtful cases. In the following resumé of the clinical and other records of six cases in which this test was applied, five were proven to be hydatid at operation, and in each case a positive result was obtained. In the remaining case (case 1), which was shown at autopsy to be one of malignant disease of the colon, the reaction was negative. The seventh case recorded in this section is of particular interest in connection with the jaundice and degenerated daughter cysts in the gall-bladder.

Case 1.

Carcinoma of the Sigmoid Flexure. (Under the care of Dr. Johnson.)

L.W., female, et. 53 years, admitted on August 15th, 1921; died on August 20th, 1921. This patient had been ill for seven weeks before admission. Her illness commenced with swelling of the abdomen and vomiting, with persistent constipation. There was a vague history of having passed a hydatidiform mole 10 years previously; otherwise she had had no previous illnesses. The abdomen was much enlarged. There were signs of free fluid in the abdominal cavity. The liver was enlarged downwards to the umbilicus. The central swelling was dull on percussion, and gave the impression of a large cystic mass. She died rather suddenly four days after admission. The autopsy showed a scirrhus carcinoma of the sigmoid flexure with extensive malignant infiltration of the mesentery, omentum and parietal peritonem. The whole of the abdominal organs were matted together by old, dense adhesions. The parietal peritoneum was thick and tough, with the bowel intimately adherent to it. There were several pints of free fluid in the abdominal cavity. The blood revealed no eosinophilia, and the Wassermann reaction and the hydatid reaction were both negative.

Case 2. Hydatid of the Liver. (Under the care of Dr. Cudmore.)

J.N., male, at. 35 years. Admitted on 4th April, 1921; operation on April 22nd, 1921; discharged on May 27th, 1921. The patient complained of a lump in the right side of the abdomen, which he had first noticed seven months previously. There was an aching pain in the side. He had had no vomiting and no jaundice. He had lost 10lbs, in weight in six weeks. He had been operated on for hydatid disease of the liver nine years previously. He had always lived in the north of the State. When examined, he had a normal pulse, respiration, and temperature. The heart and lungs were normal. There were scars of old operations on both sides of the chest laterally. There was a fullness in the right epigastrium. This fullness was dull on percussion, and the dullness was continuous with the live dullness was continuous with the liver dullness, which extended up to the sixth rib in the nipple line and projected downwards apparently from the liver for 3ins., but did not cross the middle line. Its lower level was that of the umbilicus. It was tender on palpatation. No thrill was detected. The skin showed marked dermatographia. The urine contained no albumin or sugar. A skiagraph taken on April 19th did not reveal a localised liver opacity, and the liver was not enlarged upwards. The hydatid complement fixation reaction was positive. The reaction in this case was not as strong as has been generally found in multiple infections. He was operated on on May 22nd, 1921, under open ether through an oblique incision through the old scar. A large mass extending into the liver was felt. This was punctured and a little fluid evacuated. The tumor was then incised, a large number of daughter cysts evacuated, and the cavity drained. On April 24th there was very little drainage, and the wound had healed six days later. The course, after operation, was afebrile, and he was discharged well on May 27th, 1921.

Case 3. Hydatids of the Liver. (Under the care of Dr. Newland.)

J. L., male, et. 13 years, residing at Wallaroo. Admitted on November 17th, 1920; operated on November 22nd, 1920, and on January 6th, 1921; died on January 8th, 1921. The patient stated that he had taken a "chill" after swimming, one week before admission. He had gone to school next day but had felt worse on the following day and had had to go to bed. On the day prior to admission he had had pains in his back and right side, especially when he breathed deeply. He had had some cough with little sputum. He had been operated on four times previously for hydatids but had been well for the last two years. There was no hydatid disease in other members of his family. When admitted, he was a pale, sallow child, and was very ill. The tongue had a white fur on the dorsum, and the lips showed some herpetic eruption. The pulse was rapid (130) with a fair volume and tension. The respira-tions were 32 per minute; temperature 101 degrees. The heart was normal in respect to size and position. The chest was prominent and almost bulging over the right lateral aspect, and the lung on the right side showed signs of compression of the lowest lobe. The liver was enlarged downwards for 2ins. below the costal margin, and its dullness extended across the epigastrium to the left costal margin, and upwards to the third rib in the right anterior axillary line. A radiograph showed an opacity in the vicinity of the diaphragm on the right side, probably in the liver. The hydatid complement fixation reaction on November 29th was P. + + +.

An operation was performed, under ether, on November 22nd, 1920, by a right epigastric vertical incision. The cyst in the liver

was punctured and copious hydatid fluid evacuated. Numerous daughter cysts, mostly in a state of degeneration, were removed. The general condition of the patient after operation went from bad to worse. There was increasing pallor and muddiness of the com-There was a hectic fever, the temperature rising to 100 degrees to 101 degrees F. in the evening. On December 9th the right chest was explored and some blood-stained fluid (5c,c.) removed. Examination of the fluid was negative. The patient began to have rigors on December 10th, and a series of subcutaneous injections of antistreptococcal serum (10c.c.) were given. The wound ceased draining gradually, and on January 3rd, 1921, the tube was removed. On this date the feet were cedematous and the heart was dilated slightly. The temperature now reached 99-8 degrees at night.

A blood count on January 5th showed 6,400 leucocytes, and 2,700,000 erythrocytes. A skiagraph on the same day revealed an increase of the liver opacity, the right dome of the diaphragm being higher than normal. On January 6th he was again explored owing to , continued pyrexia and wasting. A trocar inserted between the fifth and sixth ribs on the right side laterally withdrew pus. The pus was located in the liver after incision and closure of the pleural sac. It came from a large suppurating hydatid cyst of the liver. Much foul pus and degenerated daughter cysts were evacuated. His condition next day was very low. There was marked pallor, wasting, and a failing heart. Blood transfusion was done, 400c.c. of citrated blood (obtained from his brother) being injected into his

circulation. Death occurred on January 8th, 1921.

At autopsy the liver weighed 72ozs, and revealed the cavity of the cyst found at the first operation and of that opened on January 6th, 1921. Two more cysts were present, one causing adhesion of the stomach to the surface of the liver, and the other binding the liver to the diaphragm on the right side. The spleen showed several infarctions. The heart was dilated and hypertrophied. The left kidney only was present (the right had been removed at a previous operation). This remaining kidney showed no gross changes.

Pathological findings during illness:-December 29th, 1920, the sputum showed no tubercle bacilli or evidence of hydatids. Pus from the second hydatid cavity showed on cultivation Staph. albus and streptococci.

> Case 4. Hydatid Cyst behind the Kidney. (Under the care of Dr. Newland.)

G. M., male, at. 29 years, a billiard-marker, residing at Evandale, South Australia. Admitted on January 18th, 1921; operated on on January 27th, 1921; discharged on February 23rd, 1921. He complained of having had pain in the right loin during the previous nine months. He had had influenza at this time, and soon afterwards he noticed the pain in the right loin and his right foot began to swell. The pain was aching in character and kept him awake at night. Lately the pain had not been so severe. He had had no rigors or sweats. Micturition was normal. The bowels were regular. His appetite was poor, but he had not vomited. He had lost 9lbs. to 10lbs. during the illness and was becoming weaker. He had had no previous illnesses, but had always been delicate and had had indigestion for several years. Examination revealed a pale, thin man, moderately wasted. His temperature was normal and chest clear. The muscles of the abdomen were on guard in the right upper quadrant and there was tenderness on palpating the kidney region. A large fluctuant mass could be felt in the right loin. Urine contained no sugar or albumin, and was clear. The hydatid complement fixation reaction was P. + +.

He was operated on on January 27th, 1921, under ether anæsthesia.

An oblique incision was made into the right loin. As soon as the An oblique incision was made into the right loin. As soon as the muscles were cut through a considerable quantity of yellowish-green pus was evacuated from a large cavity placed behind the kidney, a pint being removed. Two hydatid daughter cysts were then removed and a drainage tube inserted. This patient made an uninterrupted recovery and the course was afebrile. On May 5th, 1921, a further complement fixation reaction was carried out. The report stated that "the reaction may be regarded as negative, although some hamolysis is still present."

Case 5.

Hydatid Cyst in a Laparotomy Scar. (Under the care of Dr. Cudmore).

C.S., female, et. 36 years, residing at Naracoorte, South Australia. Admitted on April 7th, 1921; discharged April 14th, 1921. This patient came in complaining of a soreness under the scar of an old laparotomy wound. She had been operated on in June, 1920, for hydatid disease of the liver. The wound had healed after the operation, and she had had no further trouble until one week ago, when the scar became tender and painful. When examined, her temperature was normal and she was comfortable in bed. In the right upper quadrant of the abdomen there was a cicatrix, the left extremity of which was inflamed and tender, and there was a small bleb on the inflamed portion. The tissue about the inflamed area was thickened. The liver extended lin. below the costal margin. An incision was made into the swelling, and a small hydatid cyst found to exist in the scar. The wound healed rapidly. Blood

was collected on April 12th and the hydatid complement fixation reaction was P. + + +. It is not known whether this positive reaction was due to the small hydatid in the cicatrix, as it is possible she may have hydatid cysts elsewhere as well.

Case 6.

Hydatid Disease of the Lung. (Under the care of Dr. Cudmore).

H.H., male, &t. 50 years, residing at Magill, South Australia laborer. Admitted on August 16th, 1921; discharged on October 28th, 1921; no operation. The patient had suffered from hydatid disease for many years. He was operated on first in 1914 and again in 1915, 1916, 1918, and three times in 1919. For the last 14 days he had had pain and a feeling of discomfort in the epigastrium. He also had had a cough, which was worse at night, and profuse expectoration. He had been "bringing up skins" for a week previously. He had had an ulcer on the left leg for seven years. His appetite was good and his bowels regular. He had not lost weight during the last six months. He had had no other illnesses. He had lived at Third Creek for some time, and thinks he acquired his infection there. Other Third Creek residents have had hydatids. patient appeared a healthy-looking man. His temperature was The percussion note of the lungs was impaired on the right side anteriorly from the nipple downwards. Vocal resonance. and tactile fremitus were reduced over the dull area. The breath sounds were transmitted, but distant. Posteriorly there was dullness at the right base with an absence of breath sounds at the extreme base. Vocal resonance and fremitus were absent. The dullness had a convexity upwards and extended to the angle of the There were several cicatrices in the epigastric region, the flank, and on both sides of the chest, and a varicose ulcer over the middle of the left tibia. The blood on August 29th, 1921, showed an cosinophilia of 16 °/o, and the hydatid complement fixation reaction was positive. The patient continued coughing up daughter cysts, and was sent home on August 28th, 1921.

Case 7.

Hydatid Daughter Cysts in the Gall-bladder, with Jaundice. (Under the care of Drs. de Crespigny and Cudmore.)

A.W., male, at. 36, was admitted first on May 20th, 1921, complaining of diarrhoa, pain in the lower abdomen, and jaundice. A "chill" followed by an increase of jaundice had occurred 10 days after the onset. The liver dullness was increased upwards to the fifth intercostal space in the mammillary line. He was discharged on May 31st. The jaundice had disappeared, and he felt well. He was readmitted in his second attack on September 1st. days previously he had had "sudden pains in the stomach and back while having a meal." The pain was intense and nauseating. The pain had now lessened but recurred at night, and was felt chiefly in the right side of the back. The temperature rose to 101.4°. He was jaundiced. The abdomen was rigid and the liver could not be felt, but percussion revealed an enlargement of the liver, dullness from the level of the fourth rib anteriorly, and the angle of the scapula posteriorly on the right side to a point 2.5 c.m. above the umbilicus. X-rays confirmed the above finding, showing a general hepatic enlargement.

On September 6th the hydatid complement fixation test was negative and the blood showed 85 per cent. of hæmoglobin, 5,624,000 red cells, 6,300 white cells, and 2 per cent. of eosinophiles. Wassermann reaction was negative on September 8th.

On September 8th the liver was normal in size. The jaundice had disappeared. He was discharged relieved on September 30th.

He was readmitted for his third attack on December 12th, complaining of pain in the right side. Clinical examination showed jaundice and hepatic enlargement. Laparotomy was performed by Dr. Cudmore on December 23rd. Palpation of the liver showed that its surface was beset with numerous rounded projections the size of large marbles, and the organ was generally enlarged. The gall bladder, on being opened, was found to contain bile and two small dark olive-green collapsed hydatid cysts like grape skins. On microscopic examination of these the lamination of the ectocyst could be easily distinguished. The cysts were deeply stained and impregnated with crystals. No scolices or hooklets were found. The patient's convalescence was febrile, but in a few weeks he was discharged, having been relieved of his symptoms.

Comments.—The points of interest are—(a) Three attacks characterised by pain, jaundice, and considerable hepatic enlargement, all of which subsided in the intervals between attacks. (b) The presence of collapsed daughter cysts in the gall-bladder. (c) The widespread infestation of the liver with small cysts. Presumably the poroxysms of pain, jaundice, and hepatic enlargement were due to blockage of the hepatic ducts by small cysts, two of which found their way up the cystic duct to the gall-bladder.

The serum reaction was negative, and the cosinophiles amounted to only 2 per cent. on September 6th.

PART II .- CASES OF HYDATID DISEASE MET WITH POST-MORTEM By J. B. Cleland and D. L. Barlow.

During the two years 1920 and 1921, six instances of hydatid infestation have been met with in the post-mortem room out of 350 post-mortem examinations. Only one case was detected out of 149 such examinations in 1920, but five were seen in 201 in 1921. In several of these cases the cysts were very old, being almost completely calcified and not responsible for the fatal issue, or recently at any rate causing symptoms. Hydatid infestation of the inhabitants of South Australia is doubtless, therefore, considerably heavier than operation and clinical hospital statistics might suggest, and in quite a number of instances spontaneous cure occurs. The rarity of hydatid disease in man in most other parts of the world, and the expectation that in the near future the disease will become less prevalent in Australia, prompts the recording of all cases at present encountered.

Case 1. Hugh Calcifying Hydatid of the Liver, with Jaundice. (Under the care of Dr. Cudmore).

Post mortem 51/20.—H.A., male, at. 58. Admitted on May 9th, 1920: died on May 13th. The patient complained of a swelling in the right side, of pain, jaundice, and diarrhea. He gave a history that 30 years ago he had coughed up cysts. A diagnosis was made of an hydatid cyst pressing on the bile ducts and causing the jaundice. Laporatory was performed, and an hydatid cyst was found in the liver from which countless daughter cysts were evacuated. At the autopsy grumous blood-stained fluid was found between the muscles near the laporatory wound, and there was general peritonitis. The heart was displaced upwards and to the left by the hypertrophied left lobe of the liver, whilst the right lobe had displaced the base of the right lung upwards and led to adhesions at its base. The right lobe of the liver was nearly entirely replaced by a very large irregular old hydatid cavity which had tunnelled into the substance of the lobe so as to leave merely a shell of fibrotic liver substance, sometimes quite thin, in places about an inch thick; the wall of the cyst was firm and in parts calcified, and its internal surface was ragged. A few small undegenerated daughter cysts lay beneath this capsule; the cyst had tunnelled under beneath the gall-bladder, considerable fibrosis surrounding the upper surface of the organ and the cystic duct, extending to the common duct. The left lobe was greatly hypertrophied, displacing the heart and forming the whole of the organ visible on first opening the abdominal cavity. This lobe showed some diffuse fibrosis. The wall of the gall-bladder was thickened, and its cavity contained some soft whitish degenerated material. The right kidney was adherent by its upper pole through the suprarenal capsule to the underside of the right lobe of the

Comments.-Hypertrophy of the unaffected left lobe of the liver was marked. The history of the case suggests the possibility that the hydatid infection on admission may have originated 30 years previously.

Case 2.

Very Large Hydatid Cysts of the Liver and Peritoneal Cavity. (Under the care of Dr. Johnson.)

Post mortem 8/21.—R.T.F., male, et. 72. Admitted January 26th, 1921, and died on January 27th. There was a history of hydatid disease of the liver of 17 years' duration. He had refused operation. The abdomen had gradually enlarged accompanied by loss of strength and increasing dyspnœa. He was admitted in a condition of profound weakness, and was partially unconscious. The abdomen was very much enlarged and tense, the liver enormously enlarged, and the heart pushed over to the left. At the autopsy, the right lung was found to be compressed by the ascent of the liver to the

level of the third rib. Its base was congested and cedematous. The left lung was also compressed and cedematous. The left ventricle was somewhat hypertrophied. The enormously enlarged liver weighed 5½lbs. In the right lobe was a hugh suppurating hydatid cyst containing a brownish pus and numerous daughter cysts, and bordered by a thick fibrous capsule. This portion of the liver was adherent to the diaphragm, which had been pushed up to the level of the third rib. Lower down in the right lobe was another hydatid cyst projecting on to the anterior surface enclosed in a thick capsule, and containing numerous daughter cysts. The left lobe of the liver was greatly hypertrophied; its substance was tougher than normal and the color pale. There were three other abdominal cysts—one in the omentum near the hepatic flexure, another also in the omentum beneath the transverse colon, and the third in close contact with the upper surface of the spleen; each was about the size of a large orange and contained large numbers of compressed daughter cysts. The kidneys showed slight interstitial changes. The spleen was somewhat enlarged and fairly firm.

Comments.—The points of special interest are:—(1) The duration of the condition, 17 years, with enormous cysts resulting; (2) suppuration in one cyst; (3) the presence of five cysts, probably representing the successful implantation of five separate embryoes, there being nothing to suggest that any of the cysts were due to the escape of daughter cysts from one of the others; and (4) the compensatory hypertrophy of the uninvolved left lobe of the liver.

Case 3.

Obsolete Calcified Hydatid of the Liver. (Under the care of Dr. de Crespigny).

Post mortem 28/21.—Mrs. G. S., &t. 74. Admitted on February 25th, 1921. The patient died on March 8th as a result of chronic nephritis and cardiac failure. At the autopsy the upper part of the right lobe of the liver was found to contain a hard whitish irregular mass, which appeared as if "let into" the liver substance, which proved to be a calcified hydatid.

Case 4.

Small Obsolescent Hydatid of the Liver. (Under the care of Dr. Cudmore).

Post mortem 90/21.—P.A., male, &t. 38. Admitted on June 15th, 1921. The patient died the same day from fracture of the skull and laceration of the brain. In the left lobe of the liver was found a small obsolescent hydatid cyst.

Case 5.

Large Hydatid Cyst of the Liver. (Under the care of Dr. Ray).

Post mortem 147/21.—G.S., male, et. 69. Admitted on August 8th, 1921; died on August 30th. The patient had been able to work until four days before admission, though he had had an abdominal swelling previously. He now complained of cough, shortness of breath, and swelling of the feet. The autopsy showed, as the immediate cause of death, lobar pneumonia affecting the upper lobe and the upper part of the lower lobe of the right lung and the central portion of the lower lobe of the left lung. On opening the abdominal cavity a whitish fluctuant swelling was found projecting upwards from the right lobe of the liver and downwards as far as the iliac fossa. The right kidney was pushed forward by, and the ascending colon stretched on the inner side of, the swelling. The swelling was found to be due to the replacement of practically the whole of the right lobe of the liver by an hydatid cyst containing numerous daughter cysts. The left lobe of the liver was greatly hypertrophied, and its structure seemed somewhat clouded.

Comments.—The large size of the cyst and the hypertrophy of the uninvolved left lobe of the liver may be noted.

Case 6.

Calcifying Hydatid of the Liver with Papillomatous Cyst Wall.

(Under the care of Dr. de Crespigny).

Post mortem 171/21.—M.P., female, at. 87; was admitted on October 12th, 1921, and died from senility, bronchitis, and cardiac failure on October 25th. The autopsy revealed in the outer part of the right lobe of the liver an hydatid cyst about 2½in. in diameter

with a thickened calcifying capsule, and containing numerous daughter cysts. This capsule was adherent on its under surface to the right kidney, the suprarenal capsule being wedged in the angle between the liver and the kidney. The ectocyst showed in places a low papillomatous appearance.

II.—CASES OF TUBERCULAR AND ACID-FAST INFECTIONS OF INTEREST.

The following cases are of interest as illustrating the pathological onditions met with in association with infections by acid-fast oacilli. Two of them are tubercular in nature, whilst the third showed the formation of a hugh abscess with secondary purulent pyæmic foci, eventually fatal, in which the pus contained enormous numbers of an unknown acid-fast bacillus which was not the tubercule or leprosy bacillus. The tubercular cases were unusual, inasmuch as one died from a clinically typical aplastic anæmia, in which tuberculosis was unsuspected, and the other died from the asthenia following on an exceedingly extensive and intractable dermatitis. In the first of these it is considered that the aplastic anæmia was brought to the fore-from in posse to in esse-by a progressing abdominal tuberculosis. In the second the extent of the tubercular esions and the numbers of the bacilli suggest that the dermatitis, from which apparently the patient more directly died, may have represented a special cutaneous sensibility due to tuberculinization.

Case 1.

APLASTIC ANÆMIA WITH ADVANCED MASKED ABDOMINAL TUBERCULOSIS.

By C. Turner and J. B. Cleland. (Under the care of Dr. Cowan).

M.S., female, at. 29 years, had been born in England. She was removed off the s.s. Barradine, which arrived on November 5th, 1921, from England, being admitted on November 8th, 1921. Four days after leaving England her left big toe swelled, became red and painful. Then her ankles began to swell, and she developed large patches like bruises on her shins. (Dr. de Crespigny has suggested that these may have been due to erythema nodosum.) These were bluish at the beginning, and were tender, and her limbs ached. She had been somewhat anæmic before leaving England. Her previous health had been otherwise good. By the time she reached Durban she had improved, and went ashore. After leaving Durban she got a severe cold, her head was "stuffed up," and she got a sore on her lip. This sore commenced as several yellow spots, which finally formed a large yellow scab. The scab came off and left her lip swollen and painful. She had to take to her bed, and had been in bed since. She now complained of weakness and a dull aching pain in the right side of the abdomen. The bowels were constipated. There were 1,300 passengers on the ship, and there was much illness. Some had septic sores, others had diarrhæa, and the hospital was constantly full. She had had a severe attack of diarrhæa, lasting a day only, just before arriving in Australia.

On examination.—The patient is a very emaciated young woman. There is marked pallor of the skin and conjunctivæ. The pupils react to light and accommodation. The tongue is somewhat dry, with white dorsal fur. There is a sore on the lower lip on the left side near the angle of the mouth, with a fairly definite raised margin; its surface is granular and bleeds easily; the lip is, to some degree, infiltrated but not very hard. There is no enlargement of the cervical glands. The chest is normal except for a few inspiratory crepitations at both bases posteriorly. The spleen is not palpable. The liver is not enlarged downwards. There is deep tenderness on palpating the right loin and the right iliac region. This region is full, but no definite mass can be felt. The legs show a few greenishgrey circular spots over the tibiæ. The reflexes are normal.

The following day a blood examination gave the following result:— Leucocytes 2,300 per c.mm. There was a relative increase of lymphocytes. Serum expressed from the sore on lip showed no spirochaetes. The Widal reaction gave slight clumping with B. typhosus, and a negative reaction with B. paratyphosus A and B. The constipated stools contained a good deal of mucus but no blood. No typhoid or dysentery organisms were recovered from the fæces.

November 14th.—Red blood count, 1,168,000; hæmoglobin, 24 per cent.; color index, 0.9.

November 16th.-Red cells, 940,000; hæmoglobin, 16 per cent.; color index, 0.8. The red cells showed some anisocytosis, but no other abnormality. The white cells were too few to allow of a differential count. The majority of the cells present were lymphocytes. The blood picture agreed with that of an aplastic anaemia. Her general condition was worse. There was profound weakness. The patient was unable to move without assistance. She complained of a dull ache in the right loin. The blood gave a negative Wassermann reaction.

November 20th.—Given 600 c.c. of citrated whole blood from a universal donor at 11 a.m. At noon she had a slight shiver and her temperature rose to 100 F. At 4 p.m. the temperature was normal, and she felt much better. Her color was much improved. A blood count next day gave the following result:—Erythrocytes, 2,000,000; hæmoglobin, 35 per cent.; color index, 0-8. After transfusion her condition had slightly improved. She still had pain in the right side, but the appetite was improved, and she took nourishment freely. The stools were examined for ova of Ankylostoma duodenale, with a negative result.

November 22nd.—The color was much improved. Lips, fingers, and ears were pink. She felt much better. There was still pain in the right loin.

November 24th.-Urobilin was not detected in the urine by the spectroscopic method. This examination was carried out for the purpose of detecting any abnormal hæmolysis.

Two days later (November 26th) she was very pale again. The blood showed 1,096,000 erythrocytes; hæmoglobin, 16 per cent.; color index, 0.7. At this time she began to get drowsy, and later became unconscious and died on November 27th.

Post-mortem Examination No. 186/21.—The body was extremely blanched. There was a sore, with a scab on it, on the lower lip. Petechiæ were noticed on the pleural, pericardial, and peritoneal surfaces. Numerous miliary tubercles were found scattered thickly over the excal region and adjacent peritoneal surfaces, occurring especially near the mesenteric attachment of the small intestine and in the ileocæcal angle. In the latter situation was a large gland about 5 cm. in diameter which, on section, appeared fleshy and suggested a neoplasm, but showed in one place a small calcareous deposit. A number of other less enlarged glands were matted together into a mass. Collections of small dilated vessels were seen surrounding many of the tubercles. On the inner aspect of the cæcum near the ileo-cæcal junction was a plaque-like thickening of the mucosa without definite ulceration, The liver showed wide-spread scattered miliary tubercles under the surface and in the substance; the glands in the portal fissure were rather enlarged, but showed no signs of caseation or tubercular infection. The spleen was rather large, weighed 7½ozs., was somewhat soft, and showed scattered whitish foci (miliary tubercles). The uterus was ante-flexed; the uterine adnexa showed no signs of tuberculosis. The kidneys were very pale. In the left lung were occasional minute miliary tubercles. The bronchial glands were slightly pigmented, but showed no evidence of tuberculosis. There was no reaction in the bone marrow of the femur. The ribs were remarkably flat, with very little marrow cavity present. There were no other lesions of note detected.

Histological Examination.—The liver shows numerous miliary foci. The smallest of these occur as collections of lymphoid cells, apparently anywhere in the lobule or in the portal area. Larger foci show a more or less extensive necrotic centre, with degenerated cells in a fine degenerated reticulum, surrounded by a zone of lymphoid and some connective tissue cells. In the largest of these is a central cavity, the surrounding necrotic tissue being deeply bile-stained. The surface of the liver shows a similar infiltration with lymphocytes, connective tissue cells, &c., sometimes extending in nodular fashion into the liver substance, sometimes showing necrotic areas. In places the bile-ducts are somewhat dilated and surrounded by much fibrous tissue. Stained for tubercle bacilli vast masses of these were seen in the large caseated area containing the extravasated bile to one side of this extravasation and not near it. Only occasional tubercle bacilli were seen in the other necrotic foci. In another section similar large masses, visible with the low power, were present in a large degenerated area. No definite giant cells are present. The spleen shows scattered necrotic foci, with no special cellular reaction around or giant cells. The mesenteric glands show extensive degenerated areas, surrounded by plasma cells, lymphocytes, and connective tissue cells. No typical giant cells were seen. but occasional cells with two or several nuclei, apparently endothelial cells. Tubercle bacilli were easily found in the necrotic areas. The thickened patch in the cœcum shows considerable infiltration with plasma and connective tissue cells and varying amounts of fibrous tissue. Tubercle bacilli were not seen. The large portal glands show in one section several necrotic foci without giant cells. Sections of two glands show a diffuse hyperplasia, the main mass of tissue being composed of cells with more protoplasm than lymphocytes, amongst which are some proliferating endothelial and connective tissue cells, often containing grains of blood pigment. Amongst this mass of cells are small clumps of lymphocytes. The lip lesion shows a necrotic surface with an absence of the surface epithelium, and a considerable round-celled chronic inflammatory reaction No giant cells or tubercle bacilli were seen. In the kidney, the cells of the convoluted tubules are unduly granular and the nucei indistinct.

Comments.-The sequence of events in this patient is of very considerable interest. The nature and extent of the tubercular process in the abdomen indicates a duration of some months at least for the enlargement of the glands whilst the calcified area in one points to an infection contracted many months previously, perhaps years ago in childhood. Probably this initial focus had remained for long quiescent, but had begun to progress within the last year. It seems obvious that the patient must have gone on board ship after the tubercular process had reassumed activity. On the voyage she became ill with fever and prostration. The ankles swelled and bruises appeared on the shins, and she became anæmic. On admission to hospital her temperature was high; she had no localising symptoms but presented the typical picture of aplastic anæmia. She steadily went down hill, and died with this diagnosis. Was the aplastic anæmia an independent condition, or was it due directly or indirectly to the tubercular process? The patient obviously had a progressing tubercular process before she became definitely anæmic. At her death this process had extended so far that death from it alone could not have been long delayed. The aplastic anæmia also was so grave that death resulted, in great part at least, from the reduction in the number of red cells. If the two conditions were unassociated, it would be an unusual coincidence if two rather unusual pathological processes such as these, each at a stage tending to lead to the early death of the patient, were found together. It is probable then that the anamia was associated in some way with the tuberculosis, or, to put it in other words, that the patient, at any rate at this period of her life, would not have developed aplastic anæmia had she not had the progressing tubercular infection.

Case 2.

GENERALISED TUBERCULOSIS WITH EXTENSIVE PUSTULAR DERMATITIS.

> C. Turner, J. B. Cleland, and D. L. Barlow. (Under the care of Dr. Harrold).

W.E., a male, &t. 40 years, married, a laborer, residing at Kangaroo Island; was admitted on May 19th, 1921. He complained of a scabby rash, which had commenced 14 days previously, on the backs of the hands and the face. It was burning but did not itch. It came up in lumps first, which later developed yellow heads and then

On Examination.-On the backs of the hands and extending up the backs of the forearms was a scabby rash and some pustules.

The broken pustules had a phlyctenular edge. On the face were similar lesions. Temperature normal, P. 80, R. 20.
On May 24th he was much improved. No more pustules had arisen. The lesions were treated with an ointment containing equal parts of boric acid and ammoniated mercurial ointments. June 6th he was further improved. No fresh pustules had arisen, and he was desquamating on the backs of the hands. He was discharged on June 9th, 1921, practically well. He was readmitted on June 27th, 1921, in much the same condition as on his previous admission. Treatment was continued, but the condition gradually worse. The lesions had extended up the arms to the face, back, and chest. The face was red and the evelids swollen. There were some pustules on the scrotum, and the tissues of the scrotum were swollen and exuding a sticky fluid.

By September 14th his condition had become worse. The hands and forearms were raw and painful. The toes were also affected. The face and neck were cracked and covered with scabs. There

was a severe stomatitis (probably mercurial in origin from the use of Ung. Hydrarg. Ammon.). Lotio plumbi subacetatis was now being

used, the scabs being previously removed after the use of olive oil.

September 20th, 1921.—The face had improved. The rash had spread to the back. The patient had an irritable cough with very little sputum. The temperature was hectic in type, rising to 100° to 101° F. at night and falling to normal in the mornings. Cultures from the exudate showed Staphylococcus aureus, a streptococcus, and a Gram-negative bacillus. A vaccine of Staph. aureus and the streptococcus was prepared, and administration commenced on October 4th. The rash had now spread over the back. The general condition of the patient was worse. The hands and feet were about the same. There was no improvement in the mouth condition. The scrotum was scabby and œdematous. There were fine rales posteriorly at both bases of the lungs.

October 11th, 1921.—He complained of dimness of vision in the right eye. The lids were swollen, and there was a free purulent discharge. Ophthalmoscopic examination showed the media hazy and the discs not visible. The rash had become generalised. The lesions had coalesced, producing large raw areas over which the superficial epidermis had been lost, and exuding a sticky fluid which,

on drying, left a yellow crust.

On October 15th, 1921, baths of sodii bicarbonatis, one drachm to the pint, were commenced twice daily. This was done to remove scabs and cleanse the skin. The removal of scabs was a very painful and exhausting process. After two or three days on baths the skin was much cleaner of scabs. There were extensive areas of skin from which the epithelium was denuded, and which exuded a viscid fluid which stiffened the sheets. The general condition was poor. There was hectic fever and marked stomatitis, and the tongue was smooth and denuded of epithelium. The eyelids were swollen and exuding pus from the conjunctivæ. He was coughing a good deal, and there was free yellowish sputum.

October 25th.—The rash was now universal and his condition

weaker. He was taking no nourishment. The patient died on

October 27th, 1921.

Post mortem, 173/21, on October 28th.—There were extensive skin lesions of a superficial dermatitic type with heaped up crusts; the fingers, toes, and scapular regions were most affected. The front of the neck about the clavicular areas was considerably involved and scattered lesions appeared in many other places. The lungs showed slight adhesions at the apices, and numerous rather firm shotty nodules throughout their substance. There were greatly enlarged hard glands about the bifurcation of the trachea and in the hila of the lungs, and enlarged glands in the superior and anterior mediastina. The heart showed no change of importance. abdomen there was an almost entire absence of omental and mesenteric fat. A caseous point, the size of a shot, was seen in the mesentery but no enlarged mesenteric glands though in the neighborhood of the pancreas, some lymphatic glands showed a fibrotic (apparently a tubercular) condition. The *liver* weighed 56ozs.; was rather pale, and showed a minute caseated area on the anterior surface of the right lobe and a number of scattered miliary tubercles. The spleen, weighing 6ozs., was dark red, and contained small white apparently fibro-caseous nodules scattered throughout its substance. The kidneys showed a few miliary tubercles. The suprarenal glands The stomach, intestines, prostate, and bladder were large and firm. showed no special changes.

Histological Examination.-The lung shows numerous thickened patches up to 2 to 3 mm, in diameter. In these are found fibrocaseous areas formed by the union together of affected alveoli and their walls. The alveolar walls apparently become thicker and more cellular whilst an exudate appears in the alveoli or the lining cells proliferate and, with some leucocytes and red cells, fill the spaces. In the older areas a degenerative change gradually ensues. In places there is a similar reaction and fibrosis around the bronchioles. Tubercular giant cells are not recognisable. Stained for tubercle bacilli, the caseated centre of a small nodule shows a number of scattered acid-fast bacilli. At the periphery, where there is a cellular reaction in the shape of polymorphunuclear leucocytes and mononuclear cells, acid-fast bacilli are exceedingly numerous, being mostly intracellular, apparently occurring in mononuclear cells and often grouped in bundles. In one of these areas the tubercle bacilli

have so accumulated as to form huge red masses.

The liver shows a number of scattered case ated areas, from 142μ to 500 µ in diameter, of which sometimes three or four may be seen in one field of a No. 3 objective. The centre of an affected area shows a granular eosin-stained material. Sometimes in this the outlines of degenerating cells can be seen, and in places is an obscure reticular appearance probably due to fibrin. There are also elongated strands, usually short, somewhat suggestive of a mycelium but apparently only elongated degenerating fibroblasts. Occasionally a giant cell is seen. Two of these at the periphery of one area were typical, but the others were atypical of those of tuberculosis showing a number of nuclei distributed through the cell. Round the periphery of the area are some fibroblasts and rounded cells. immediately surrounding liver substance shows some infiltration with rounded or irregular cells and occasional peripherally-situated liver cells show fat vacuoles. In one section an area, about 1.5 mm. in diameter, shows a laminated fibrosed periphery, against which the liver cells abut with little interstitial change, the centre of the area having fallen out, but showing calcified remains. A number of scattered acid-fast bacilli were seen in the caseous areas.

The spleen shows numerous caseated areas up to 1 mm. in diameter. The outlines of degenerated cells can be seen sometimes throughout the nodules. Some of the Malpighian bodies are unaffected, although there may be fibrosis round the arterioles and caseated areas may be in their proximity. The splenic tissue between the nodules shows abundant blood-pigmentation. The capsule is somewhat thickened, and caseated areas may be seen just below it. A similar cascated nodule in the deeper part of the cortex of one of the suprarenal capsules shows scattered acidfast bacilli. A mesenteric gland shows extensive caseated areas without giant cells, and with, in places, a number of distended capiliary vessels in proximity to the caseated areas. Near the vessels are numerous cells with degenerating nuclei. Some of the cells seem endothelial and phagocytic. A bronchial gland shows very extensive cascation with surrounding strands of fibrosis, but no giant cells. In both mesenteric and bronchial glands are some peculiar concentrically fibrosed areas. In one gland scattered tubercle bacilli are seen in the caseated areas. The small area in the mesentery shows also a caseated centre, with abundant broken down nuclear material at its periphery. The skin lesion shows thickening of the epithelium and separation of the superficial squamous part, but no marked reaction in the corium.

Case 3.

ACID-FAST BACILLI ASSOCIATED WITH THE FORMATION OF LARGE ABSCESSES, PYÆMIA AND DEATH.

By J. B. Cleland, L. B. Bull, and W. Christie. (Under the care of Dr. Cudmore).

This case is, we believe, probably unique. The patient developed a hugh abscess with smaller secondary foci. These all contained vast numbers of an acid-fast bacillus. The cells in the pus were vast numbers of an acid-fast bacillus. The cells in the pus were chiefly polymorphonuclear leucocytes. In spite of the large number of organisms present, toxamia was not marked, death being more due to asthenia than to poisoning. The organisms were neither tubercle bacilli (negatived by the histological appearance and inoculation results) nor lepra bacilli (histological appearance, lesions in guinea-pigs). The disease was probably due to the accidental introduction of some normally saprophytic acid-fast organism, which in this patient was able to establish itself and become parasitic. The history of injury might suggest that such an organism, gaining entrance somewhere (perhaps by the alimentary canal), entered the blood stream and, becoming deposited in the injured tissue, there grew.

The details of the case are as follows :- Mrs. E.F., aged 60, was admitted to the Adelaide Hospital on May 4th, 1921, and died on June 16th. She gave a history of having fallen down a few steps about two months before her admission, when she slightly injured her right side. A week or two later she noticed a lump in her right side, which increased in size but did not cause much pain. About the same time a soft swelling developed over the upper part of her sternum, and on April 25th this burst, discharging some pus. patient had had five children, all of whom were alive and healthy. On examination there was found an ulcer over the manubrium sterni which was circular with clean-cut edges which were slightly overhanging, and with some semi-fluid pus in its cavity. margin was raised, red, and discolored for about a quarter inch all round. A large fluctuant swelling also existed between the crest of the right iliac bone and the costal margin, and extended from about the margin of the erector spinse to in front of the anterior superior iliac spine. Some pus was aspirated from the abscess, and both it and the discharge from the ulcer were found to contain numerous acid-fast bacilli rather thicker than the Bacillus tuberculosis. These were for the most part lying free, but a few were found in polymorphonuclear leucocytes. Very few lymphocytes were noticed. The number of bacilli discharged from the ulcer continued to increase until on May 19th there were approximately 1,000 per field of vision. The vast majority of the cells continued to be polymorphonuclears, and the few mononuclears visible generally had the nucleus obscured by a dense mass of bacilli.

Inoculation experiments were made on one rabbit and three guinea pigs, the details of which are given further on. Culture experiments all failed, although every medium available in the

laboratory was used.

The patient was X-rayed on May 6th, and some overgrowth at the hilum of the lungs was noticed. On May 10th a piece was cut from the margin of the ulcer, which showed granulation tissue but gave no evidence of any tubercular inflammation. The blood gave a negative Wassermann reaction. The discolored margin of the ulcer gradually extended till it was about an inch wide and became bluish-red in color and was steadily undermined. This undermining was most conspicuous towards the jugular notch, and by the 24th of May the insertion of the right sterno-mastoid was visible, and pus could be seen behind the manubrium. The patient gradually

became weaker and died on June 16th.

Post mortem 91/21.-The general nutrition was fair. There was slight ædema of the feet. In the right loin was a hugh abscess cavity burrowing into the surrounding tissues and exposing the muscles, but not associated anywhere with the bone. Over the upper part of the sternum was a hole, 2in. in diameter, exposing the There was no sign of reaction in the surrounding skin, and or had the appearance of having been cut out. The base the ulcer had the appearance of having been cut out. was yellowish with necrotic material, and there was little sign of reaction. Small abscesses, about the size of small marbles, were found scattered in the subcutaneous fat of the trunk. The right lung showed a few old adhesions at the apex and some pigmented scarring; two small fibrotic nodules were present; there were no signs of abscesses. The left lung contained one or two fibrotic nodules. There was a small abscess surrounded by a ring of hyperæmia in the subpericardial tissue of the right ventricle. omentum showed minute abscesses, with occasional surrounding reaction; other scattered abscesses were seen about the surface of the liver, in the mesentery, appendices epiploice, &c. The liver was congested, pale, and fatty, presenting a moderate nutmeg appearance with small whitish points, apparently necrosed areas. The stomach, intestines, and pancreas were normal. The spleen was enlarged, firm, with thickened patches on the surface, of medium dark color, and 6ozs. in weight. The left suprarenal gland had a small abscess in the cortex. Both kidneys showed some inflammatory adhesions of their capsules to the surroundings. There were a few small abscesses in the perirenal fat; on the surfaces of the organs were seen numerous small abscesses with a ring of hyperæmia to each; on section the cortex and medulla showed numerous small firm whitish areas from the size of a pin's head to one-eighth of an inch in diameter. The capsule was slightly adherent. Pus from the ulcer and large abscess both showed very numerous acid-fast bacilli rather thicker than ordinary tubercle bacilli, and showing less granular staining.

Histological Examination .- Sections of the large abscess wall show infiltration with some polymorphonuclear leucoytes and swollen connective tissue cells. Stained by Ziehl-Neelsen's method, vast numbers of acid-fast bacilli are seen in masses enclosed within cells. Some of the cells appear to be degenerating polymorphonuclear leucocytes, others are endothelial cells lining capillary walls, and still others appear to be connective tissue cells. The polymorphonuclear leucocytes form about half the cells in the degenerated

The spleen shows numerous foci with degenerating cells, the remains of the cell bodies containing numerous acid-fast bacilli sometimes aggregated into dense red masses resembling the globi of leprosy. There is usually in the neighborhood of the foci a good deal of old blood pigment. The Malpighian bodies seem quite unaffected, but it is difficult to find a field with the $^1/_{12}$ in. objective in the medulla which is free from acid-fast bacilli.

The liver shows considerable fatty infiltration. No definite necreotic areas were seen, but by appropriate staining scattered intracellular groups of acid-fast bacilli were met with, sometimes apparently in cells in the capillaries, sometimes in the endothelia cells lining them, occasionally apparently actually in liver cells.

In the kidney necrotic foci in the cortex show numerous cells, many apparently polymorphonuclear leucocytes, containing masses

of acid-fast bacilli which are present in vast numbers.

The pyæmic focus in the pericardium shows a necrosed area with scattered degenerated leucocytes and a few large connective tissue cells scattered in a rather granular and reticular ground substance of degenerated tissue. Even around the periphery, the polymorphonuclear cells are degenerated and on the outskirts the surrounding fat cells and connective tissue cells show enlargement, and there are a few plasma cells. After staining by Zichl-Neelsen, extensive red areas are seen with a low power resolving themselves into vast masses of acid-fast bacilli which in the centre, in contrast to the periphery, are no longer contained within cells but lie free in a degenerated tissue.

A mesenteric focus shows degenerated polymorphonuclear cells intermixed with proliferated connective tissue cells in a degenerated matrix. In one place, in a small arteriole near a degenerated area, are several polymorphonuclear cells containing a number of acid-fast bacilli, these leucocytes being agglomerated together with some red cells. In the degenerated area itself are some masses of acidfast bacilli, and also a large number of granular rods, not staining red, suggesting the presence of bacilli not, or no longer, acid-fast.

Experimental Inoculations.—One rabbit and one guinea pig were inoculated intraperitoneally and one guinea pig subcutaneously with pus from the patient. The guinea pig inoculated intraperitoneally died suddenly while being examined 10 days after inocula-There was necrosis and pus formation in the abdominal wall at the site of inoculation, adhesions around liver and stomach, and the omentum was rolled and thickened. Acid-fast bacilli were found, mostly intracellular, in the pus from the lesions.

The rabbit developed a lesion in the abdominal wall at the site of inoculation. This broke down, and the discharge showed pus cells and acid-fast bacilli. The animal was killed four and a half months after inoculation. Post-mortem examination showed no lesions in the abdominal viscera (except cystic ovaries), but in the lungs small caseated areas in which acid-fast bacilli were present.

The guinea pig inoculated subcutaneously developed a local lesion, which broke down and discharged pus about four days after inoculation. There was no healing, and the lesion became more extensive. The animal died 37 weeks after inoculation. Post-mortem examination showed extensive areas of necrosis in the liver and numerous necrotic foci in the lungs and spleen.

A section of the ulcerated area of the skin of the guinea pig shows beneath the epithelium moderate cellular proliferation with, in places, light leucocytic infiltration. The proliferated cells appear to be

chiefly endothelial and connective tissue.

Another guinea pig was inoculated subcutaneously with pus collected at autopsy on the patient. This animal developed a local lesion which discharged about four days after inoculation. It died 37 weeks after inoculation. It showed extensive areas of necrosis in the liver, spleen, and lungs, with small necrotic lesions in the heart and necrotic precrural and iliac lymphatic glands.

Acid-fast bacilli were not found in smears made from the necrotic lesions of either guinea pig, but in sections they were found to be present, although in very small numbers. Histological examination of the diseased tissues showed a chronic inflammatory reaction with fibrosis, polymorphonuclear invasion, round cell accumulation, and extensive areas of coagulation necrosis. The blood vessels often showed thrombosis, and it appears that the necrosis was due to the vascular changes. There was little or no endothelial reaction, and only one multinucleated cell resembling an imperfect giant cell was seen. The reaction did not resemble a tubercular reaction in any of the sections.

III.—CICATRICIAL PYLORIC ULCER FOLLOWING INGESTION OF HYDROCHLORIC ACID.

Notes by Dr. C. Turner. (Under the care of Dr. Corbin).

J.K.M., a male, at. 28, was admitted on November 5th, 1921. One hour previously to admission he had swallowed about a dessertspoonful of hydrochloric acid (spirits of salts) and immediately felt a burning in the throat and soreness in the epigastrium, which became worse. Fifteen minutes afterwards he began to vomit a black frothy

fluid. On admission he was given an alkaline fluid to drink, in the form of bicarbonate of sodium, and was put on a milk diet. He had had a "cold" for 10 days prior to admission, and was expectorating some yellow lumpy sputum. There was no loss of weight or night sweats. Examination of the chest was negative. He had some tenderness in the epigastrium for a few days, but was discharged 14 days after admission feeling well and taking light food without discomfort. He was re-admitted on December 2nd, 1921, complaining of pain, coming on after food, followed by vomiting, with relief of the pain. He was unable to retain any food for a longer period than two hours. He was losing much weight and getting very weak. He was very tender in the epigastrium. A barium meal on December 13th, 1921, showed a complete pyloric obstruction. He vomited the barium one hour after the screening. The general condition was considerably lowered. He had obviously wasted and lost color. Diacetic acid was found in his urine. It was decided to operate on December 14th. A supraumbilical midline incision was made under ether. A condition of cicatricial ulcer encircling the stomach at the pyloric end was found. A posterior gastroenterostomy was performed. He was discharged on January 13th, 1922, feeling well and taking a full diet. On January 27th, 1922, he had put on 6lbs. in weight.

IV.—RODENT ULCERS IN UNUSUAL SITUATIONS. By L. B. Bull.

The routine histopathological examinations made during the year 1921 revealed two cases of rodent ulcer in unusual situations. One case was under the care of a private practitioner, and clinical notes are unobtainable. The rodent ulcer was situated in the skin of the ankle. We have no further information. Sections of the ulcer revealed a typical picture with nothing unusual.

The other case was admitted to the hospital. The patient was an unmarried woman, sixty years of age. She had had an ulcer of the right loin for 10 years, and at the time of examination it appeared as a large circular ulcer about 6in. in diameter, with a thick indurated edge. It was of the superficial type, and sections show a typical picture. The patient refused operation, and was treated with X-rays for some time without any benefit.

During the year 686 specimens were submitted to histological examination, mostly representing neoplasms or suspected tumours. Of these 36 were rodent ulcers representing 34 individual cases. Only in the two cases mentioned above were the rodent ulcers found in unusual situations.

V.—SQUAMOUS EPITHELIOMA OF THE LIP IN A MAN, AGED 24 YEARS, FOLLOWING TRAUMA.

By H. R. Branson.

(Under the care of Dr. Cudmore).

Male, æt. 24, single, a laborer, was admitted on January 4th, 1921. He had been struck on the lower lip about 10 weeks previously by a football. The lip had been split and had then scabbed over. He had picked the scab off several times. Gradually a lump formed

which increased in size until it reached the diameter of a marble. It was not painful.

On examination, a lump (about the size of a marble) with a scab on its surface was present near the middle of the lower lip. On handling the scab a slight amount of pus escaped from a crack on its surface. The lump was hard to the touch, but the hardness did not extend deep into the tissues of the lip. There was some tenderness on pressure. No enlarged glands were felt in the neck. A portion of the growth was excised and proved to be squamous epithelioma. On January 7th the growth was removed by a V-shaped incision. The glands and all the lymphatic and cellular tissues were removed from the anterior triangle of the neck on both sides. The growth was again examined, and was found to be a squamous epithelioma, with cell nests and some plasma cells. No secondary deposits were found in the glands.

VI.—EXTREME ADIPOSITY ASSOCIATED WITH A CYST OF THE PITUITARY BODY IN A MIDDLE-AGED WOMAN.

By D. L. Barlow.

(Under the care of Dr. de Crespigny).

A married woman, at. 57, was admitted to hospital on August 24th, 1921, suffering from broncho-pneumonia, which had commenced with symptoms of a common cold a few days earlier. She rapidly became worse, and died on August 26th. Her appearance was remarkable, as she presented a picture of very extreme adiposity. The regions of special accumulation were the subcutaneous abdominal tissues, mamme, and buttocks, but the limbs were of enormous girth. A large ventral hernia was present. The features were coarse and blunted, the face being fat, and there was a well-marked moustachios and some coarse hairs on the lower lip. Both legs below the knees were considerably pigmented, but no large varicose veins were present.

At the autopsy, the lungs presented the characteristics of an acute widespread broncho-pneumonia. The heart was enlarged from fatty accumulation. A very large ventral hernia was present, being due to stretching of an operation scar. The omenta, mesentery, etc., contained very large accumulations of fat. The brain appeared normal. The sella turcica was expanded to a diameter of approximately 2 cm. and the bony walls were thinned. Almost the whole of this space was occupied by a cyst which ruptured in getting out the pituitary body, and was found to contain clear watery fluid. The pituitary gland was represented by two lateral pieces of yellowish tissue corresponding in appearance to the anterior lobe of the normal pituitary gland. Elsewhere the cyst was bounded by thin membranous walls, and to the upper portion of these was attached a stalk from the mid-brain. Microscopically the glandular tissue was found to have the normal structure of the anterior lobe.

The history of the general condition was meagre on account of the patient's serious condition, but it showed that she had been becoming grossly fat for 20 years, but had felt fairly well. Her eyesight was good. MacCallum, in his excellent Text Book of Pathology, depicts a similar case during life which was regarded as being due to a tumor or cyst diminishing the function of the pituitary gland.

