

Report of the City of Glasgow Fever and Smallpox Hospitals : 1907-1909.

Contributors

City of Glasgow Fever and Smallpox Hospitals.

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REPORT

OF THE

CITY OF GLASGOW

Fever and Smallpox Hospitals, BELVIDERE,

FOR THE

Three Years ending 31st May, 1909.

BY

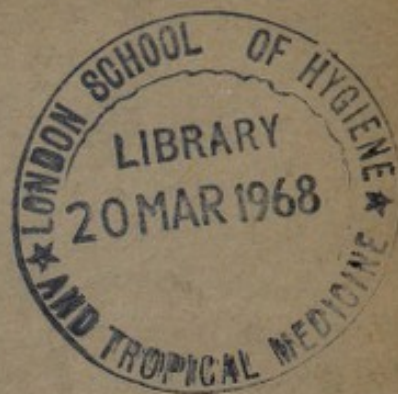
JOHN BROWNLEE, M.D., D.Sc.(Glasg.),
PHYSICIAN-SUPERINTENDENT.

*Submitted to the Committee on Health, 9th February, 1910,
and ordered to be printed.*

GLASGOW :

PRINTED BY ROBERT ANDERSON, 142 WEST NILE STREET.

1910.



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PART I.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to present to you the Reports of the City of Glasgow Fever and Smallpox Hospitals, Belvidere, for the three years ending 31st May, 1909. The Reports contain the figures of the hospital for that time, and, being presented together, allow of fuller comparison than is possible when a Report is presented from year to year. The total number of patients in the hospital during 1906-7 was 2,983; in 1907-8, 4,468; and in 1908-9, 3,829. The past two years have therefore been years which have taxed the resources of the hospital much more severely than has been the case since 1903-4, the date of the last Smallpox epidemic.

Of the year 1906-7 the special feature was the epidemic of Cerebro-spinal Meningitis. This disease, which is one of the severest, was responsible during the year for 212 deaths, equivalent to a mortality of 75 per cent. of the cases admitted. Many remedies tried were without avail, the only one which afforded any prospect of cure being the serum treatment, and this seemed to have no effect unless the patient had sufficient strength to withstand the attack for about ten days. Though there was not much advance in the methods of cure, a considerable amount of valuable investigation with regard to the diagnosis and the course of the disease was done in the hospital, papers on which have been published, the references to which will be found at the end of this Report. During the next year, 1907-8, Cerebro-spinal Fever still continued, 102 cases being admitted, of whom 82 died. In the last of the three years, 1908-9, only 48 cases in all came to the hospital, out of this 31 died. A considerable number of those were treated by Flexner's serum, without, however, the same amount of benefit as seems to have been experienced elsewhere.

Of the diseases which are regularly present, Enteric Fever comes first in the table. The number of cases treated of this fever has been becoming steadily less of recent years, but though this is the case there has been little improvement in the type of the disease. During two out of these three years it has been marked with considerable severity. Typhus Fever is now nearly extinct in Glasgow, there being only 15 cases treated during the whole period under review; among them only one died. Diphtheria, on the other hand, during the last few years has steadily been becoming more epidemic. In the first of the three years under consideration the number of admissions was 469, in the second 525, and in the third 749. In the first year the mortality was 12·7 per cent., in the second 11·2 per cent., and in the third 12·4 per cent. Though the total death-rate from the disease remains practically constant, yet there were many more tracheotomies required in the first year of the three than in the last. Scarlet Fever also is again on the up grade; 657 cases were admitted during the year 1906-7, 961 in the following year, and 1,498 in the year ending last May. Measles were specially prevalent during the middle year. In this year 1,725 cases were admitted, with 204 deaths. The mortality was very high; death occurred in most cases from early, acute poisoning, three-quarters of the deaths occurring under ten days of illness, thus differing markedly from the epidemic of the previous two years, when the bulk of the deaths were due to prolonged Broncho-pneumonia. There has not been the same variation in the amount of Whooping-cough, although fewer cases were admitted during the middle year; that was largely because the press on the hospital for Measles was too great to permit of the cases of the former diseases being received to any great extent.

As this year marks my transference from Belvidere to Ruchill, I think it fitting to give a list of the distinctions attained by the staff of the hospital, and of the papers published on the work done in the hospital during the last nine years. I mention this because the academic distinctions are at least some measure of the thoroughness of which they have done their work, and a measure furnished by an outside

authority. Out of the staff five have obtained honours from their thesis for M.D., one high commendation, and six commendation, all on work done solely or almost solely while on the staff of the hospital. No member of the staff who has gone up for his degrees has failed to attain distinction. The list of published papers is very considerable, and not merely in amount, but from the character of the journals in which the bulk of it has appeared. I think the Health Committee has every reason to congratulate itself upon the record of the hospital in this respect in recent years.

I have the honour to be,

GENTLEMEN,

Your obedient Servant,

JOHN BROWNLEE.

DISTINCTIONS OBTAINED BY MEMBERS OF THE
MEDICAL STAFF OF THE CITY OF GLASGOW
FEVER HOSPITAL, BELVIDERE, 1901-1909.

DEGREE OF DOCTOR OF MEDICINE.

Awarded Honours and a Bellahouston Gold Medal.

1901—David Louis Cairns, M.B., Ch.B.

Thesis.—"Researches on the agglutinating and prophylactic properties of Blood Serum in cases of Plague, with observations on the Haematology and Bacteriology of the disease."

Awarded Commendation.

1903—Arthur Robin, M.B., Ch.B.

Thesis.—"A contribution to the Haematology of Puerperal Fever, with some observations on the influence of the intravenous injection of Antistreptococcic Serum."

Awarded Commendation.

1904—Andrew Love, M.B., Ch.B.

Thesis.—"An investigation into the Leucocytosis of Typhus Fever, with observations on the changes present in the bone, marrow, spleen, and lymphoid tissues."

Awarded Honours.

1905—William Herbert Brown, M.B., Ch.B.

Thesis.—"A Clinical Study of the Glycogenic Reaction in Blood."

Awarded Honours and a Bellahouston Gold Medal.

1905—Edward Seymour Chapman, M.B., Ch.B.

Thesis.—"A Histological Study of the Kidney in Scarlatina."

Awarded Commendation.

1905—Thomas Bird Tierney, M.B., Ch.B.

Thesis.—"The Leucocytosis of Pertussis."

Awarded Commendation.

1908—William Dow, M.B., Ch.B.

Thesis. — “Epidemic Cerebro-spinal Meningitis, 1906-07. A Clinical description, together with an investigation into the Leucocytosis.”

Awarded Honours and a Bellahouston Gold Medal.

1908—Alexander S. M. MacGregor, M.B., Ch.B.

Thesis.—“Immunity-phenomena in Cerebro-spinal Meningitis.”

Awarded Honours.

1909—Andrew Connal, M.B., Ch.B.

Thesis.—“A Study of the Cerebro-spinal Fluid in the infective diseases of the Meninges, with special reference to Cerebro-spinal Fever.”

Awarded High Commendation.

1909—Alex. M'Call, M.B., Ch.B.

Thesis.—“The Diazo Reaction and Bacilluria in Enteric Fever.”

Awarded Commendation.

1909—Arnold H. Gray, M.B., Ch.B.

Thesis.—“Individual Growth—a Physiological Study.”

DEGREE OF DOCTOR OF SCIENCE.

1907—John Brownlee, M.A., M.D.

Thesis.—“Statistical Studies in Immunity.”

PAPERS PUBLISHED BY MEMBERS OF THE MEDICAL
STAFF OF THE CITY OF GLASGOW FEVER HOS-
PITAL, BELVIDERE, IN CONNECTION WITH THE
WORK OF THE HOSPITAL, FROM 1900 TO 1910.

"The Antitoxin Treatment of Diphtheria in the City of Glasgow Fever Hospital, Belvidere, during Six and a Half Years."—By John Brownlee, M.A., M.D. *Glasgow Medical Journal*, 1901.

"The Serotherapeutics of Plague."—By John Brownlee, M.A., M.D. *Lancet*, June, 1901.

"On the Agglutinating Property of Blood Serum in Cases of Plague."—By D. Louis Cairns, M.D. *Lancet*, June, 1901.

"A Summary of Statistics relating to Vaccination and Smallpox, as observed in the Cases admitted to the City of Glasgow Smallpox Hospital, Belvidere, between 10th April, 1900, and 30th June, 1901."—By R. S. Thomson, M.D., D.Sc., and Robert Fullarton, M.A., M.B. *Proceedings of the Royal Philosophical Society of Glasgow*, April 2nd, 1902.

"Salol in the Treatment of Smallpox."—By R. S. Thomson, M.D., D.Sc., and A. Love, M.B. *Glasgow Medical Journal*, Vol. LVII., page 401, June, 1902.

"On the Treatment of Diphtheria by the Intravenous Administration of Anti-diphtheritic Serum."—By D. Louis Cairns, M.D. *Lancet*, December 20th, 1902.

"On the Treatment of Bubonic Plague by Yersin's Serum, with Observations on its Mode of Action."—By D. Louis Cairns, M.D. *Lancet*, May 9th, 1903.

"Preliminary Note on the Parasites of Chickenpox and Smallpox."—By John Brownlee, M.A., M.D., and R. S. Thomson, M.D., D.Sc. *British Medical Journal*, Vol. I., 1903.

"Further Observations on the Treatment of Smallpox by the Serum of Vaccinated Heifers."—By John Brownlee, M.A., M.D., and R. S. Thomson, M.D., D.Sc. *Lancet*, 1903.

"Perforation in Enteric."—By A. Love, M.B., *Glasgow Medical Journal*, Vol. LX., page 13, July, 1903.

- "Age Incidence Statistics in Infectious Disease."—By John Brownlee, M.A., M.D. *Proceedings of the Royal Philosophical Society of Glasgow*, 1903-1904.
- "Haemoconia."—By Andrew Love, M.D. *Lancet*, December 24th, 1904.
- "An Investigation into the Leucocytosis of Typhus Fever."—By Andrew Love, M.D. *Journal of Pathology and Bacteriology*, Vol. X., page 296, 1905.
- "The Changes in the Blood-forming Organs in Typhus Fever."—By Andrew Love, M.D. *Journal of Pathology and Bacteriology*, Vol. X., page 405, 1905.
- "Statistical Studies in Immunity: Natural Immunity, and the Capacity for Acquiring Immunity in the Acute Infectious Diseases."—By John Brownlee, M.A., M.D. *Journal of Hygiene*, Vol. V., No. 4, October, 1905.
- "The Treatment of Smallpox by Ichthyol."—By Andrew Love, M.D. *Glasgow Medical Journal*, November, 1905.
- "Statistical Studies in Immunity: Smallpox and Vaccination."—By John Brownlee, M.A., M.D. *Biometrika*, Vol. IV., page 313, No. 3, November, 1905.
- "Statistical Studies in Immunity: The Theory of an Epidemic."—By John Brownlee, M.A., M.D. *Proceedings of the Royal Society of Edinburgh*, June 18th, 1906.
- "A Histological Study of the Kidney in Scarlatina."—By E. Seymour Chapman, M.D. *Journal of Pathology and Bacteriology*, Vol. XI., page 276, 1906.
- "An Account of Five Cases of Pyelitis in Enteric Fever."—By John Brownlee, M.A., M.D. With "A Description of the Post-mortem Appearances in One Case." By E. Seymour Chapman, M.D. *Glasgow Medical Journal*, Vol. LXVI., page 407, December, 1906.
- "Typhoid Spine."—By A. Love, M.D., *Glasgow Medical Journal*, Vol. LXVI., page 423, December, 1906.
- "Statistical Studies in Immunity: The Incubation Period and the Crisis."—By John Brownlee, M.A., M.D. *Proceedings of the Royal Philosophical Society of Glasgow*, November 7th, 1906.

- "On the Supersensitisation of Persons Suffering from Diphtheria by Repeated Injections of Horse Serum."—By J. R. Currie, B.A., M.B. *The Journal of Hygiene*, Vol. VII., No. 1, January, 1907.
- "Examples of the Immediate and of the Accelerated Reaction following Two Injections of Anti-diphtherial Serum."—By J. R. Currie, B.A., M.B. *The Journal of Hygiene*, Vol. VII., No. 1, January, 1907.
- "The Problem of Fever Nurses."—By John Brownlee, M.A., M.D. *Nursing Times*, 1907.
- "Statistical Studies in Immunity: A Discussion of the Means of Estimating the Severity of Cases of Acute Disease."—By John Brownlee, M.A., D.Sc. *Biometrika*, Vol. V., page 423, No. 4, June, 1907.
- "The Clinical Symptoms of the Cases of Cerebro-Spinal Meningitis admitted into Belvidere Fever Hospital, Glasgow, during the recent Epidemic, together with a Short History of the Disease in Scotland."—By William Dow, M.B., Ch.B. *Lancet*, March 14th, 1908.
- "The Serum Disease in Man after Single and Repeated Doses."—By J. R. Currie, B.A., M.B. *Glasgow Medical Journal*, April, 1908.
- "A Review of the Serum Treatment of Infectious Diseases in the Practice of the City of Glasgow Fever and Smallpox Hospitals, Belvidere." By John Brownlee, M.D., D.Sc. *Glasgow Medical Journal*, Vol. LXX., page 188, September, 1908.
- "Agglutination Reactions."—By Andrew Love, M.D. *Glasgow Medical Journal*, Vol. LXX., page 199, September, 1908.
- "Abnormal Reactions to Horse Serum in the Serum Treatment of Cerebro-Spinal Fever."—By J. R. Currie, B.A., M.B. *Journal of Hygiene*, September, 1908.
- "The Serum Treatment of Cerebro-Spinal Fever in the City of Glasgow Fever Hospital, Belvidere, between May, 1906, and May, 1908."—By J. R. Currie, B.A., M.B., and A. S. M. Macgregor, M.B., Ch.B. *Lancet*, October 10th, 1908.

"The Prodromal Rashes of Smallpox."—By the late R. S. Thomson, M.D., D.Sc., and John Brownlee, M.D., D.Sc. *The Quarterly Journal of Medicine*, January, 1909.

"An Investigation into the Leucocytosis of Epidemic Cerebro-Spinal Meningitis."—By William Dow, M.D. *Lancet*, March 20th, 1909.

The Laws of Individual Growth."—By Arnold H. Gray, M.D. *Proceedings of the Royal Philosophical Society of Glasgow*, April, 1909.

"Physique of Glasgow Children: An Enquiry into the Physical Condition of Children admitted to the City of Glasgow Fever Hospital, Belvidere, during the years 1907-08."—By A. S. M. Macgregor, M.D. *Proceedings of the Royal Philosophical Society of Glasgow*, April, 1909.

"On the Occurrence of Erythro-Agglutinins and Erythro-Opsonins in the Blood of Certain Cases of Cerebro-Spinal Meningitis."—By A. S. M. Macgregor, M.D. *Journal of Pathology and Bacteriology*, Vol. XIV., page 184, No. 2, October, 1909.

"A Study of the Cerebro-Spinal Fluid in the Infective Diseases of the Meninges, with Special Reference to Cerebro-Spinal Fever."—By Andrew Connal, M.D. *The Quarterly Journal of Medicine*, January, 1910.

"A Clinical Study of the Glycogenic Reaction in Blood."—By W. Herbert Brown, M.D. *Practitioner*, January, 1910.

PART II.

STATISTICAL TABLES.

TABLE I.

GENERAL STATEMENT.

REMAINING in Hospital, 1st June, 1906,	-	-	324
ADMITTED during 1906-1907,	-	-	3,150
			3,474
DISMISSED—			
Cured, Relieved, and Died,	-	-	3,010
REMAINING in Hospital, 31st May, 1907,	-	-	460
Total Number of Deaths,	-	554	
Gross Mortality,	-	17.6 per cent.	
DAILY average number of patients in Hospital,	-	-	396
Average period of stay in Hospital,	-	-	45.8 days.

TABLE II.

SHOWING THE MONTHLY DISTRIBUTION OF THE PRINCIPAL DISEASES
DURING THE YEAR 1906-1907.

	Scarlet Fever.		Diphtheria.		Enteric Fever.		Typhus Fever.		Measles.		Whooping-cough.		Erysipelas.		Cerebro-spinal Meningitis.		Others.		Total Admissions to Hospital.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1906.																				
June, - -	27	2	49	10	14	5	...	...	64	3	29	2	20	1	12	10	28	7	243	40
July, - -	26	...	42	3	4	4	2	...	51	6	34	2	11	2	11	10	27	3	208	30
August, -	45	5	25	2	20	4	1	...	23	1	23	5	20	2	10	7	33	4	200	30
September, -	96	4	54	3	30	7	...	...	12	2	23	3	12	1	6	4	21	1	254	25
October, -	89	3	59	5	26	5	...	...	5	1	43	7	10	...	18	13	31	5	281	39
November, -	85	3	30	3	14	6	...	...	1	...	29	9	13	1	10	8	26	4	208	34
December, -	63	4	37	4	26	8	...	...	10	1	33	9	16	1	8	6	21	4	214	37
1907.																				
January, -	54	3	46	7	21	3	...	...	17	3	58	12	14	1	28	21	31	6	269	56
February, -	52	...	30	7	13	4	...	...	12	...	51	11	18	...	59	41	31	7	266	70
March, - -	33	...	25	5	12	3	...	...	16	5	122	31	13	...	44	37	19	4	284	85
April, - -	39	2	36	7	11	3	...	...	9	1	70	14	10	1	44	31	37	12	256	71
May, - -	48	2	36	4	18	4	...	...	18	2	95	16	15	...	32	24	38	5	300	57
Totals, -	657	28	469	60	209	56	3	...	238	25	610	121	172	10	282	212	343	62	2,983	574

TABLE III.
ENTERIC FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	6	...	4	1	10	1	10'0
5—10	8	1	11	2	19	3	15'7
10—15	27	3	18	2	45	5	11'1
15—20	13	7	10	2	23	9	39'1
20—25	16	5	11	4	27	9	33'3
25—30	26	8	10	4	36	12	33'3
30—35	14	5	9	...	23	5	21'7
35—40	5	3	3	1	8	4	50'0
40—45	5	2	4	3	9	5	55'5
45—50	2	1	3	...	5	1	20'0
50—55	1	...	...	...	1	...	...
55—60	2	1	1	1	3	2	66'6
Totals,	125	36	84	20	209	56	26'7

One patient died within 24 hours of admission.

TABLE IV.
TYPHUS FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	...	...	...	...	...	...	...
5—10	...	...	...	...	...	...	...
10—15	2	...	...	...	2	...	...
15—20	...	...	...	...	...	...	...
20—25	...	...	...	...	...	...	...
25—30	...	...	...	...	...	...	...
30—35	...	...	...	...	...	...	...
35—40	1	...	...	...	1	...	...
45—50	...	...	...	...	...	...	...
50—55	...	...	...	...	...	...	...
55—60	...	...	...	...	...	...	...
Totals,	3	...	...	...	3	...	...

TABLE V.
DIPHTHERIA.

Age-Periods.	TOTAL CASES.				FAUCIAL CASES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	5	2	6	1	...	...	4	...
1—2	32	9	22*	4	13	2	11	1
2—3	30	7	30	6	14	2	17	3
3—4	22	6	29	1	17	3	19	...
4—5	28	5	28	4	20	3	21	4
5—10	65	7	86	5	55	4	79	5
10—15	12	...	22	1	12	...	22	1
15—20	6	1	12	...	6	1	12	...
20—30	6	...	14	1	6	...	13	...
30—40	2	...	10	...	2	...	10	...
40—50	...	...	1	...	...	...	1	...
50—60	...	...	...	...	...	...	...	...
60—70	...	...	1	...	...	...	1	...
Totals, - -	208	37	261	23	145	15	210	14
Mortality percent.	17.7		8.8		10.3		6.6	

Age-Periods.	LARYNGEAL CASES.				TRACHEOTOMIES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	5	2	2	1	3	2	1	...
1—2	19	7	10	3	13	4	3	2
2—3	16	5	13	3	9	5	8	1
3—4	5	3	10	1	2	1	2	1
4—5	8	2	7	...	3	1	3	...
5—10	10	3	7	...	6	3	2	...
10—15	...	...	...	...	...	...	...	...
15—20	...	...	...	...	...	...	...	...
20—30	...	...	1	1	...	...	...	...
Totals, - -	63	22	50	9	36	16	19	4
Mortality percent.	34.9		18.0		44.4		40.0	

* 1 Case Vulvar Diphtheria.

Fifteen patients died within 24 hours of admission.

TABLE VI.
SCARLET FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	6	...	4	1	10	1	10'0
1—2	6	1	11	3	17	4	23'5
2—3	20	2	18	3	38	5	13'1
3—4	36	4	33	3	69	7	10'1
4—5	30	...	43	4	73	4	5'4
5—6	30	...	36	1	66	1	1'5
6—7	37	1	42	...	79	1	1'2
7—8	21	2	31	...	52	2	3'6
8—9	19	...	34	...	53	...	...
9—10	13	...	19	...	32	...	...
10—15	44	1	67	1	111	2	1'8
15—20	7	...	12	...	19	...	...
20—25	5	...	9	...	14	...	...
25—30	2	...	6	...	8	...	...
30—35	3	...	3	...	6	...	...
35—40	2	...	4	1	6	1	16'6
40—45	...	...	...	...	..	...	...
45—50	...	...	3	...	3	...	...
50—60	...	...	1	...	1	...	...
Totals,	281	11	376	17	657	28	4'2

Three patients died within 24 hours of admission.

TABLE VII.

MEASLES.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	12	3	9	1	21	4	19·4
1—2	27	11	14	1	41	12	29·2
2—3	15	2	17	3	32	5	15·6
3—4	17	2	17	...	34	2	5·8
4—5	18	...	13	...	31	...	...
5—6	11	...	15	...	26	...	...
6—7	11	...	14	1	25	1	4·0
7—8	3	...	3	1	6	1	16·6
8—9	1	...	2	...	3	...	...
9—10	3	...	...	...	3	...	...
10—15	2	...	...	...	2	...	...
15—20	1	...	2	...	3	...	...
20—25	3	...	2	...	5	...	...
25—30	2	...	1	...	3	...	...
30—35	2	...	1	...	3	...	...
Totals,	128	18	110	7	238	25	10·5

One patient died within 24 hours of admission.

TABLE VIII.
WHOOPIING-COUGH.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	30	12	40	17	70	29	41·4
1—2	59	26	49	17	108	43	39·8
2—3	43	14	48	9	91	23	25·2
3—4	41	9	45	6	86	15	17·4
4—5	31	2	37	5	68	7	10·2
5—6	36	1	33	1	69	2	2·8
6—7	28	...	22	1	50	1	2·0
7—8	15	...	18	1	33	1	3·0
8—9	6	...	11	...	17	...	...
9—10	6	...	7	...	13	...	...
10—15	1	...	3	...	4	...	...
15—20	...	...	1	...	1	...	...
Totals,	296	64	314	57	610	121	19·8

Seven patients died within 24 hours of admission.

TABLE IX.
CEREBRO-SPINAL MENINGITIS.

Age-Periods	MALES.		FEMALES.		TOTAL.		Mortality per Cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	4	3	2	1	6	4	66·6
1—2	5	4	3	3	8	7	87·5
2—3	2	2	1	1	3	3	100·0
3—4	1	...	...	...	1	...	...
4—5	2	1	1	1	3	2	66·6
5—6	1	1	1	1	2	2	100·0
6—7	3	2	...	...	3	2	66·6
7—8	1	...	2	1	3	1	33·3
8—9	...	...	...	...	...	...	...
9—10	1	...	1	1	2	1	50·0
10—15	2	1	2	1	4	2	50·0
15—20	2	2	3	...	5	2	40·0
20—25	2	2	...	...	2	2	100·0
25—30	2	1	...	...	2	1	50·0
30—35	...	...	2	...	2	...	...
35—40	2	2	...	...	2	2	100·0
Totals, -	30	21	18	10	48	31	64·5

TABLE X.
ERYSIPELAS AND PUERPERAL FEVER.

Age-Periods.	ERYSIPELAS.				PUERPERAL FEVER.	
	Males.		Females.		Cases.	Deaths.
	Cases.	Deaths.	Cases.	Deaths.		
0—5	...	...	...	...	...	...
5—10	1	...	1	...	...	...
10—15	...	...	...	...	...	...
15—20	1	...	2	...	3	1
20—25	3	...	...	...	16	3
25—30	2	...	5	...	31	15
30—35	1	...	...	...	18	12
35—40	3	...	2	...	6	4
40—45	...	...	2	...	4	2
45—50	1	...	4	...	1	...
50—55	1	...	1	...	...	...
55—60	...	...	...	...	...	...
60—65	...	...	...	...	...	...
65—70	1	...	2	...	...	...
Totals, -	14	...	19	...	79	37

TABLE XI.
UNCLASSIFIED DISEASES.
 (a) INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Influenza, - - - - -	1	...	...	...
Tuberculosis—				
(a) Meningitis, - - -	7	7	4	4
(b) Peritonitis, - - -	1	...	2	2
(c) Of Lungs, - - -	...	...	1	...
(d) Pyelitis, - - -	2	...	1	1
Glanders, - - - - -	1	1	...	...
German Measles, - - -	17	...	17	...
Varicella, - - - - -	2	...	2	...
Parotitis, - - - - -	1	...	2	...
Dysentery, - - - - -	1	...	...	...
Beri-Beri, - - - - -	9	...	...	...
Typhoid Bacilluria, - - -	1	...	...	...
Septicaemia, - - - - -	2	1	...	...
Totals, - - - - -	45	9	29	7

TABLE XI.—Continued.
UNCLASSIFIED DISEASES.
(b) NON-INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Pneumonia, - - - -	21	4	15	5
Broncho-Pneumonia, - - -	2	1	2	1
Bronchitis, - - - -	3	...	1	...
Pleurisy, - - - -	1	1	2	...
Empyema, - - - -	1	...	...	...
Stomatitis, - - - -	1	...	1	...
Cancrum Oris, - - - -	...	...	1	1
Acute Glossitis, - - - -	1	...	...	...
Tonsillitis, - - - -	4	...	4	...
Laryngitis, - - - -	...	...	1	...
Gastritis, - - - -	...	...	3	...
Gastric Ulcer, - - - -	1	1	...	...
Hæmatemesis, - - - -	...	...	1	1
Enteritis, - - - -	4	...	1	...
Constipation, - - - -	2	...	1	...
Appendicitis, - - - -	1	...	...	...
Peritonitis, - - - -	...	...	3	2
Nephritis, - - - -	...	...	2	...
Calcula of Kidney, - - -	1	1	...	...
Right Floating Kidney, - -	...	...	1	...
Mastitis, - - - -	...	...	1	...
Ovaritis, - - - -	...	...	1	...
Acute Vulvitis, - - - -	...	...	2	...
Rhinitis, - - - -	1	...	...	...
Conjunctivitis, - - - -	...	...	1	...
Otitis Media, - - - -	1	...	...	...
Septic Conditions, - - -	6	...	6	1
Prepatellar Bursitis, - - -	...	...	1	...
Furunculosis, - - - -	2	...	...	...
Bubonic Conditions resembling Plague, - - - -	3	...	...	...
Lichen, - - - -	1	...	...	...
Eczema, - - - -	1	...	1	...
Scabies, - - - -	1	...	2	...
Marasmus, - - - -	...	...	1	...
Tetany, - - - -	2	...	...	...
Opium Poisoning, - - - -	1	...	1	...
Ptomaine Poisoning, - - -	1	...	1	...
Anæmia, - - - -	...	...	1	...
Splenic Anæmia, - - - -	...	...	1	...
Senile Heart, - - - -	...	...	1	...
Tumor of Cerebellum, - - -	1	1	...	...
Premature Birth, - - - -	...	...	1	1
Convulsions, - - - -	1	1	...	...
Nil, - - - -	13	...	14	...
Nursing Mothers, - - - -	...	...	11	...
Members of the Staff with Non- Infectious Diseases, - - -	5	1	33	...
Totals, - - - -	83	11	119	12

TABLE XII.

NUMBER OF PATIENTS ADMITTED INCUBATING A DISEASE
DIFFERENT FROM THAT FOR WHICH THEY WERE ADMITTED.

Disease for which admitted.	DISEASE WHICH DEVELOPED.						
	Measles.	Whooping- cough.	Rötheln.	Chicken- pox.	Enteric Fever.	Diph- theria.	Scarlet Fever.
Measles, - -	...	2	...	1	1	1	...
Scarlatina, -	2	1	2	3	...	...	...
Whooping-cough,	1	...	...	4	...	...	...
Chickenpox, -	...	...	...	...	...	...	1
Diphtheria, -	...	1	...	...	...	...	...
Rötheln, - -	...	2	...	...	...	...	...

TABLE XIII.

NUMBER OF PATIENTS INFECTED WITH DISEASES OTHER THAN
THAT PRESENT ON ADMISSION TO HOSPITAL.

Disease for which admitted.	DISEASE ACQUIRED.						
	Measles.	Scarlet Fever.	Whooping- cough.	Rötheln.	Chicken- pox.	Diphtheria.	Erysipelas.
Measles, - - -	...	...	1	...	...	...	...
Scarlet Fever, - -	4	...	...	7	3	2	...
Whooping-cough, -	5	...	...	...	8	...	1
Chickenpox, - -	...	1	8	...	...	...	...
Diphtheria, - -	...	6	3	...	...	...	...

TABLE XIV.

INFECTIOUS DISEASES AMONG THE STAFF.

	Diphtheria.	Enteric Fever.	Scarlet Fever.
Nurses, - - - - -	1	2	2
Maid, . - - - -	...	1	...
Male Servant, - - - -	...	1	...

PART III.

STATISTICAL TABLES.

TABLE I.

GENERAL STATEMENT.

REMAINING in Hospital, 1st June, 1907,	-	-	-	460
ADMITTED during 1907-1908,	-	-	-	4,652
				5,112
DISMISSED—				
Cured, Relieved, and Died,	-	-	-	4,710
REMAINING in Hospital, 31st May, 1908,	-	-	-	402
Total Number of Deaths,	-			611
Gross Mortality,	-	-	-	13·1 per cent.
DAILY average number of patients in Hospital,	-	-		491
Average period of stay in Hospital,	-	-	-	38·3 days.

TABLE II.

TABLE SHOWING THE MONTHLY DISTRIBUTION OF THE PRINCIPAL DISEASES DURING THE YEAR 1907-1908.

	Scarlet Fever.		Diphtheria.		Enteric Fever.		Typhus Fever.		Measles.		Whooping-cough.		Erysipelas.		Others.		Cerebro-spinal Meningitis.		Total Admissions to Hospital.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1907.																				
June, -	42	1	29	3	10	3	...	...	14	...	59	6	8	2	31	6	14	13	207	34
July, -	36	1	25	3	14	3	...	...	10	...	49	8	15	...	28	8	8	6	185	29
August, -	56	...	34	3	26	5	...	...	11	2	35	6	14	...	38	3	5	2	219	21
September, -	71	1	48	4	16	3	...	...	30	1	19	5	10	1	31	11	7	6	232	32
October, -	85	2	72	8	25	2	...	...	158	15	26	3	12	...	33	13	2	1	413	44
November, -	81	2	57	7	19	5	...	...	249	23	40	7	11	...	37	8	3	1	497	53
December, -	61	4	35	3	8	3	...	...	371	38	17	4	17	1	17	6	3	3	529	62
1908.																				
January, -	146	17	53	5	68	9	...	...	430	56	47	17	15	1	44	8	14	12	817	125
February, -	109	5	67	10	26	3	...	...	222	37	5	2	15	1	31	8	16	12	491	78
March, -	75	2	24	2	16	2	...	...	140	19	6	1	11	...	38	8	6	6	316	40
April, -	88	3	59	9	5	...	2	...	59	8	28	4	10	...	34	5	13	12	298	41
May, -	111	2	22	3	7	2	1	...	31	5	44	2	6	...	31	4	11	8	264	26
Totals, -	961	40	525	60	240	40	3	...	1,725	204	375	65	144	6	393	88	102	82	4,468	585

TABLE III.
ENTERIC FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	4	...	7	...	11	...	...
5—10	14	2	17	3	31	5	16·1
10—15	20	...	16	3	36	3	8·3
15—20	15	1	14	2	29	3	10·3
20—25	17	2	25	4	42	6	14·2
25—30	12	5	12	...	24	5	20·8
30—35	14	1	11	3	25	4	16·0
35—40	8	2	2	...	10	2	20·0
40—45	6	2	9	1	15	3	20·0
45—50	3	...	3	1	6	1	16·6
50—55	7	6	1	...	8	6	75·0
55—60	...	...	1	...	1	...	..
60—65	...	...	...	...	...	...	...
65—70	...	...	1	1	1	1	100·0
70—75	1	1	...	...	1	1	100·0
Totals,	121	22	119	18	240	40	16·6

TABLE IV.
TYPHUS FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	...	...	...	...	...	...	...
5—10	...	...	...	...	...	...	...
10—15	...	...	...	...	...	...	...
15—20	...	...	I	...	I	...	...
20—25	...	...	...	...	...	...	...
25—30	...	...	I	...	I	...	...
30—35	...	...	...	...	...	...	...
35—40	...	...	I	...	I	...	...
40—45	...	...	...	...	...	...	...
45—50	...	...	...	...	...	...	...
50—55	...	...	...	...	...	...	...
55—60	...	...	...	...	...	...	...
Totals,	...	...	3	...	3	...	...

TABLE V.
DIPHThERIA.

Age-Periods.	TOTAL CASES.				FAUCIAL CASES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	9	3	9	2	2	...	6	...
1—2	22	2	*20	7	14	...	7	2
2—3	42	7	21	7	29	4	15	4
3—4	19	4	†27	5	16	3	24	5
4—5	27	2	26	4	18	1	20	3
5—10	84	8	86	9	71	5	79	8
10—15	26	...	30	...	25	...	30	...
15—20	16	...	17	...	16	...	17	...
20—30	8	...	20	...	8	...	20	...
30—40	7	...	3	...	7	...	3	...
40—50	2	...	3	...	2	...	3	...
50—60	...	...	...	...	...	...	...	...
60—70	...	...	1	...	...	...	1	...
Totals, - -	262	26	263	34	208	13	225	22
Mortality per cent.	9.9		12.9		6.2		9.7	

Age-Periods.	LARYNGEAL CASES.				TRACHEOTOMIES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	7	3	3	2	6	3	2	2
1—2	8	2	12	5	5	2	7	4
2—3	13	3	6	3	7	3	4	2
3—4	3	1	2	...	1	...	1	...
4—5	9	1	6	1	4	1	1	...
5—10	13	3	7	1	5	2	6	1
10—15	1	...	...	...	...	...	...	...
Totals, - -	54	13	36	12	28	11	21	9
Mortality per cent.	24.0		33.3		39.2		42.8	

* 1 Case Conjunctival Diphtheria.

† 1 Case Local Diphtheria.

TABLE VI.
SCARLET FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per Cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	3	...	5	...	8	...	...
1—2	13	3	10	...	23	3	13'0
2—3	32	1	27	8	59	9	15'2
3—4	39	4	36	3	75	7	9'3
4—5	57	2	60	2	117	4	3'4
5—6	36	2	53	5	89	7	7'8
6—7	40	1	54	3	94	4	4'2
7—8	40	1	60	1	100	2	2'0
8—9	34	...	46	...	80	...	...
9—10	29	...	24	...	53	...	...
10—15	66	1	85	...	151	1	0'6
15—20	16	...	24	1	40	1	2'5
20—25	16	...	11	...	27	...	...
25—30	8	1	11	...	19	1	5'2
30—35	8	...	9	...	17	...	...
35—40	1	...	2	...	3	...	...
40—45	2	1	2	...	4	1	25'0
45—50	...	...	...	...	...	...	...
50—60	1	...	1	...	2	...	...
Totals,	441	17	520	23	961	40	4'1

TABLE VII.

MEASLES.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	62	20	53	14	115	34	29·5
1—2	128	45	115	37	243	82	33·7
2—3	137	19	134	28	271	47	17·3
3—4	135	10	140	12	275	22	8·0
4—5	121	5	98	4	219	9	4·1
5—6	113	4	81	3	194	7	3·6
6—7	89	1	65	...	154	1	0·5
7—8	48	1	51	...	99	1	1·0
8—9	22	...	19	...	41	...	...
9—10	6	...	11	...	17	...	...
10—15	13	...	14	...	27	...	...
15—20	4	...	9	...	13	...	...
20—25	20	...	14	...	34	...	...
25—30	6	...	9	...	15	...	...
30—35	3	...	3	...	6	...	...
35—40	...	...	...	...	...	...	...
40—45	1	1	1	...	2	1	50·0
Totals,	908	106	817	98	1,725	204	11·8

TABLE VIII.
WHOOPIING-COUGH.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	26	12	27	10	53	22	41.5
1—2	31	13	31	7	62	20	32.2
2—3	35	5	31	7	66	12	18.1
3—4	23	2	29	5	52	7	13.4
4—5	31	1	27	...	58	1	1.7
5—6	16	...	18	...	34	...	...
6—7	16	2	20	...	36	2	5.5
7—8	5	...	2	...	7	...	...
8—9	2	...	2	1	4	1	25.0
9—10	1	...	...	...	1	...	...
10—15	...	...	1	...	1	...	...
15—20	...	...	...	...	...	...	...
20—25	...	...	...	...	...	...	...
25—30	...	...	1	...	1	...	...
Totals,	186	35	189	30	375	65	17.3

TABLE IX.

CEREBRO-SPINAL MENINGITIS.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	12	11	9	6	21	17	80·9
1—2	3	3	3	2	6	5	83·3
2—3	5	5	4	4	9	9	100·0
3—4	4	4	2	1	6	5	83·3
4—5	3	3	2	2	5	5	100·0
5—6	4	4	3	3	7	7	100·0
6—7	1	1	3	2	4	3	75·0
7—8	3	1	3	1	6	2	33·3
9—10	1	1	...	...	1	1	100·0
10—15	6	5	4	3	10	8	80·0
15—20	7	5	...	...	7	5	71·4
20—25	4	3	2	2	6	5	83·3
25—30	4	3	1	...	5	3	60·0
30—35	1	...	1	1	2	1	50·0
35—40	1	1	1	1	2	2	100·0
40—45	1	1	1	...	2	1	50·0
45—50	2	2	...	...	2	2	100·0
50—55	1	1	...	...	1	1	100·0
Totals,	63	54	39	28	102	82	80·9

TABLE X.
ERYSIPELAS AND PUERPERAL FEVER.

Age-Periods.	ERYSIPELAS.				PUERPERAL FEVER.	
	Males.		Females.		Cases.	Deaths.
	Cases.	Deaths.	Cases.	Deaths.		
0—5	3	...	8	1	...	...
5—10	6	...	5	...	...	...
10—15	...	...	3	...	...	...
15—20	1	...	13	...	3	1
20—25	5	...	10	...	11	3
25—30	3	...	10	...	19	8
30—35	6	...	2	...	17	8
35—40	1	...	4	...	8	1
40—45	8	1	16	1	3	3
45—50	3	1	4	...	...	...
50—55	4	...	4	...	...	...
55—60	5	...	8	...	...	...
60—65	4	...	1	1	...	...
65—70	3	1	2	...	...	...
70—75	...	...	2	...	...	...
Totals,	52	3	92	3	61	24

TABLE XI.
UNCLASSIFIED DISEASES.

(a) INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Plague, - - - - -	1	...	1	1
Febricula, - - - - -	2	...	...	...
Tuberculosis—				
(a) Meningitis, - - -	21	20	13	13
(b) Peritonitis, - - -	...	...	3	1
(c) General, - - - - -	1	1	1	1
(d) Lungs, - - - - -	3	2	2	1
(e) Pyelitis, - - - - -	...	...	1	...
Venereal Diseases, - - -	2	...	...	...
German Measles, - - - - -	10	...	12	...
Varicella, - - - - -	4	...	4	...
Parotitis, - - - - -	...	...	2	...
Beri-Beri, - - - - -	3	1	...	...
Zymotic Enteritis, - - -	1	...	5	4
Septicæmia, - - - - -	1	1	1	1
Anthrax, - - - - -	...	...	1	...
Malaria, - - - - -	1	...	...	...
Totals, - - -	50	25	46	22

TABLE XI.—*Continued.*

UNCLASSIFIED DISEASES.

(b) NON-INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Pneumonia, - - - -	12	2	4	3
Broncho-Pneumonia, - - -	2	1	3	1
Pleurisy, - - - -	...	...	3	...
Nephritis, - - - -	3	...	1	1
Cystitis, - - - -	...	...	1	...
Adenitis, - - - -	1	...	1	...
Tonsillitis, - - - -	6	...	6	...
Meningitis, - - - -	2	2	...	...
Rheumatism, - - - -	...	...	1	...
Septic Conditions, - - -	19	...	13	...
Urticaria, - - - -	1	...	...	...
Eczema, - - - -	1	...	3	...
Psoriasis, - - - -	1	...	...	...
Lichen, - - - -	1	...	...	...
Drug Rash, - - - -	1	...	...	...
Biliary Calculi Jaundice, - -	...	...	1	...
Post-partum Mastitis, - -	...	...	1	...
Hysteria, - - - -	1	...	...	...
Acute Mania of Puberty, - -	1	...	...	...
Phlegmasia Dolens, - - -	...	...	1	...
Infantile Paralysis, - - -	1	...	...	...
Acute Rickets and Convulsions, -	1	1	...	...
Cerebral Embolism, - - -	...	...	1	1
Empyema, - - - -	1	1	...	...
Pyopneumothorax, - - -	1	1	...	...
Pharyngitis (simple), - - -	...	...	1	...
Bronchitis, - - - -	2	...	3	1
Ruptured Gastric Ulcer, - -	1	1	...	...
Bubonic Conditions, resembling Plague, - - - -	1	...	...	...
Impetigo, - - - -	...	...	1	...
Sudaminal Eruption, - - -	1	...	...	...
Scabies, - - - -	1	...	3	...
Burn, - - - -	...	...	2	...
Nil, - - - -	32	...	28	...
Nursing Mothers, - - -	...	...	7	...
Members of Staff with Non- Infectious Diseases, - -	3	...	54	1
Totals, - - - -	97	9	139	8

TABLE XII.

NUMBER OF PATIENTS ADMITTED INCUBATING A DISEASE DIFFERENT FROM THAT FOR WHICH THEY WERE ADMITTED.

DISEASE FOR WHICH ADMITTED.	DISEASE WHICH DEVELOPED.					
	Scarlet Fever.	Measles.	Diphtheria.	Whooping-cough.	Mumps.	Chicken-pox.
Scarlet Fever, - - -	...	2	...	1	...	...
Measles, - - - -	...	...	...	6	...	5
Diphtheria, - - -	...	3	...	2	...	1
Whooping-cough, - -	...	3	1	...	...	...
Chickenpox, - - -	...	...	...	...	2	...

TABLE XIII.

NUMBER OF PATIENTS INFECTED WITH DISEASES OTHER THAN THAT PRESENT ON ADMISSION TO HOSPITAL.

DISEASE FOR WHICH ADMITTED.	DISEASE ACQUIRED.						
	Scarlet Fever.	Measles.	Diphtheria.	Whooping-cough.	Rotheln.	Chicken-pox.	Erysipelas.
Scarlet Fever, -	...	9	...	4	1	...	...
Measles, - -	14	...	6	2	...	2	1
Diphtheria, -	8	16	...	...	...	...	...
Whooping-cough,	2	34	3	...	...	3	...
Chickenpox, -	3	...	...	...	...	...	...
Non-infectious Disease, -	2	...	...	...	...	...	...

TABLE XIV.

INFECTIOUS DISEASES AMONG THE STAFF.

	Scarlet Fever.	Enteric Fever.	Measles.	Rotheln.	Diphtheria.	Erysipelas.	Chicken-pox.
Nurses, - -	4	3	1	1	7	1	1
Maids, - -	1	...	...	...	1	...	...

PART IV.

STATISTICAL TABLES.

TABLE I.

GENERAL STATEMENT.

REMAINING in Hospital, 1st June, 1908,	-	-	-	402
ADMITTED during 1908-1909,	-	-	-	4,020
				4,422
DISMISSED—				
Cured, Relieved, and Died,	-	-	-	3,859
REMAINING in Hospital, 31st May, 1909,	-	-	-	563
Total Number of Deaths,				
	-			445
Gross Mortality,				
	-	-	-	11.0 per cent.
DAILY average number of patients in Hospital,				
	-	-	-	517
Average period of stay in Hospital,				
	-	-	-	46.9 days

TABLE II.

TABLE SHOWING THE MONTHLY DISTRIBUTION OF THE PRINCIPAL DISEASES DURING THE YEAR 1908-1909.

	Scarlet Fever.		Diphtheria.		Enteric Fever.		Typhus Fever.		Measles.		Whooping-cough.		Erysipelas.		Cerebro-spinal Meningitis.		Others.		Total Admissions to Hospital.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1908.																				
June, -	59	...	32	6	8	...	...	...	25	...	59	3	5	...	7	5	33	7	225	21
July, -	42	2	19	...	23	4	...	...	16	3	71	14	4	...	5	1	22	3	202	27
August, -	88	2	29	1	19	5	1	...	16	...	66	6	10	...	7	6	36	5	272	25
September, -	131	1	52	8	14	1	6	1	5	...	28	5	10	...	2	...	25	5	274	21
October, -	174	5	100	10	18	3	1	...	8	1	69	8	3	...	8	5	27	5	409	37
November, -	160	7	99	11	26	5	...	...	...	...	52	7	...	...	4	3	32	4	372	37
December, -	154	3	88	15	13	2	1	...	...	...	102	21	1	...	1	...	29	9	388	50
1909.																				
January, -	146	6	63	5	16	3	...	...	...	...	82	15	...	...	3	1	21	7	333	37
February, -	121	8	48	9	16	8	...	...	...	...	90	15	...	...	5	4	20	6	301	50
March, -	114	6	67	10	26	3	...	...	...	...	106	23	...	...	3	3	25	9	341	54
April, -	181	6	91	11	27	8	...	...	6	1	70	12	...	...	3	3	47	11	423	52
May, -	128	11	61	6	8	1	...	...	3	...	46	9	...	...	...	...	41	5	289	32
Totals, -	1,498	57	749	92	214	43	9	1	79	5	841	138	33	...	48	31	358	76	3,829	446

TABLE III.
ENTERIC FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	4	...	6	...	10	...	...
5—10	16	1	18	1	34	2	5·8
10—15	13	...	16	3	29	3	10·3
15—20	14	2	14	3	28	5	17·8
20—25	15	2	9	4	24	6	25·0
25—30	20	10	14	2	34	12	35·2
30—35	11	4	5	...	16	4	25·0
35—40	11	4	5	...	16	4	25·0
40—45	4	1	5	2	9	3	33·3
45—50	3	...	5	1	8	1	12·5
50—55	2	1	3	1	5	2	40·0
55—60	...	...	...	...	...	...	...
60—65	1	1	...	...	1	1	100·0
Totals,	114	26	100	17	214	43	20·1

TABLE IV.
TYPHUS FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—5	...	...	2	...	2	...	...
5—10	1	...	...	...	1	...	...
10—15	2	...	...	...	2	...	...
15—20	...	...	...	...	...	...	...
20—25	...	...	1	...	1	...	...
25—30	...	...	...	...	...	...	...
30—35	...	...	1	...	1	...	...
35—40	...	...	...	...	...	...	...
40—45	...	...	1	...	1	...	...
45—50	...	...	...	...	...	...	...
50—55	...	...	1	1	1	1	100.0
Totals,	3	...	6	1	9	1	11.1

TABLE V.
DIPHThERIA.

Age-Periods.	TOTAL CASES.				FAUCIAL CASES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	15	7	9	1	10	3	7	1
1—2	34	12	30	3	27	9	24	3
2—3	48	10	35	13	40	7	26	9
3—4	38	5	52	8	34	3	40	5
4—5	41	5	45	7	34	3	37	7
5—10	109	5	130	14	105	4	123	14
10—15	24	...	44	...	24	...	44	...
15—20	12	1	17	...	12	1	15	...
20—30	13	...	32	1	13	...	32	1
30—40	6	...	13	...	6	...	13	...
40—50	1	...	1	...	1	...	1	...
Totals, - -	341	45	408	47	306	30	362	40
Mortalityper cent.	13.2		11.5		9.8		11.0	

Age-Periods.	LARYNGEAL CASES.				TRACHEOTOMIES.			
	Males.		Females.		Males.		Females.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—1	5	4	2	...	5	5	3	1
1—2	7	3	6	...	5	3	4	...
2—3	8	3	9	4	9	3	7	4
3—4	4	2	12	3	3	2	8	1
4—5	7	2	8	...	3	2	4	1
5—10	4	1	7	...	1	1	4	...
10—15	...	...	...	...	...	...	...	...
15—20	...	...	2	...	...	...	...	...
Totals, - -	35	15	46	7	26	16	30	7
Mortalityper cent.	42.8		15.2		61.5		23.3	

TABLE VI.
SCARLET FEVER.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	11	...	8	3	19	3	15·7
1—2	29	7	13	4	42	11	26·1
2—3	44	5	36	7	80	12	15·0
3—4	65	5	68	7	133	12	9·0
4—5	71	3	76	3	147	6	4·0
5—6	68	2	73	2	141	4	2·8
6—7	66	1	78	1	144	2	1·3
7—8	60	...	68	1	128	1	0·7
8—9	53	...	74	...	127	...	...
9—10	36	1	55	2	91	3	3·2
10—15	98	1	152	...	250	1	0·4
15—20	27	1	43	...	70	1	1·4
20—25	19	...	36	...	55	...	...
25—30	17	...	11	1	28	1	3·5
30—35	10	...	16	...	26	...	...
35—40	4	...	5	...	9	...	...
40—45	2	...	1	...	3	...	...
45—50	2	...	2	...	4	...	...
50—60	...	...	...	...	...	...	...
60—70	...	...	...	...	...	...	...
70—80	...	...	...	...	...	...	...
80—85	...	...	1	...	1	...	...
Totals, -	682	26	816	31	1,498	57	3·8

TABLE VII.

MEASLES.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	5	3	9	...	14	3	21.4
1—2	5	...	3	1	8	1	12.5
2—3	4	...	6	...	10	...	...
3—4	9	...	6	1	15	1	6.6
4—5	8	...	7	...	15	...	...
5—6	3	...	2	...	5	...	...
6—7	...	...	2	...	2	...	...
7—8	2	...	2	...	4	...	...
8—9	...	...	...	...	...	...	...
9—10	1	...	...	...	1	...	...
10—15	..	...	1	...	1	...	...
15—20	...	...	...	...	...	...	...
20—25	...	...	...	...	...	...	...
25—30	3	...	1	...	4	...	...
Totals,	40	3	39	2	79	5	6.3

TABLE VIII.
WHOOPIING-COUGH.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	50	16	63	19	113	35	30·9
1—2	76	28	79	30	155	58	50·4
2—3	41	8	61	8	102	16	15·6
3—4	67	4	56	6	123	10	8·1
4—5	54	3	62	6	116	9	7·7
5—6	46	4	51	3	97	7	7·2
6—7	34	1	38	1	72	2	2·7
7—8	20	1	17	...	37	1	2·7
8—9	6	...	3	...	9	...	...
9—10	4	...	2	...	6	...	..
10—15	5	...	3	...	8	...	...
15—20	1	...	1	...	2	...	...
20—25	1	...	...	...	1	...	...
Totals,	405	65	436	73	841	138	16·4

TABLE IX.
CEREBRO-SPINAL MENINGITIS.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	17	14	19	17	36	31	86·1
1—2	11	10	20	18	31	28	90·3
2—3	7	5	12	11	19	16	84·2
3—4	16	14	7	5	23	19	82·6
4—5	11	8	7	6	18	14	77·7
5—6	12	10	9	6	21	16	76·1
6—7	6	6	6	5	12	11	91·6
7—8	2	1	7	4	9	5	55·5
8—9	7	3	5	4	12	7	58·3
9—10	6	2	3	2	9	4	44·4
10—15	16	9	20	15	36	24	66·6
15—20	17	10	9	6	26	16	61·5
20—25	6	4	2	2	8	6	75·0
25—30	3	2	2	2	5	4	80·0
30—35	...	...	4	2	4	2	50·0
35—40	1	1	2	2	3	3	100·0
40—45	5	4	2	1	7	5	71·4
45—50	...	...	1	...	1	...	...
50—55	1	...	1	1	2	1	50·0
Totals,	144	103	138	109	282	212	75·1

Forty patients died within 24 hours of admission.

TABLE X.

ERYSIPELAS AND PUERPERAL FEVER.

Age-Periods.	ERYSIPELAS.				PUERPERAL FEVER.	
	Males.		Females.			
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
0—5	2	...	10	2	...	...
5—10	1	...	5	...	...	...
10—15	2	...	1	...	...	...
15—20	3	...	15	1	2	...
20—25	7	1	5	...	11	3
25—30	7	...	7	...	8	5
30—35	9	...	12	1	17	7
35—40	7	...	6	1	2	1
40—45	11	1	8	1	7	2
45—50	4	...	6	...	...	...
50—55	5	...	7	...	...	...
55—60	8	1	9	...	...	...
60—65	4	1	5	...	...	...
65—70	2	...	...	...	...	...
70—75	1	...	2	...	...	...
75—80	1	...	...	...	...	...
Totals, -	74	4	98	6	47	18

Three cases of Puerperal Fever and two of Erysipelas died within 24 hours of admission.

TABLE XI.
UNCLASSIFIED DISEASES.
(a) INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Influenza, - - - - -	1	...	1	...
Febricula, - - - - -	8	...	2	...
Tuberculosis—				
(a) Meningitis, - - -	6	5	5	5
(b) Of Lungs, - - -	1	...	2	...
(c) Other Tubercular Diseases,	...	...	1	...
Anthrax, - - - - -	1	...	1	...
German Measles, - - -	11	1	19	...
Varicella, - - - - -	2	...	...	...
Parotitis, - - - - -	1	1	...	...
British Cholera, - - -	1	...	...	...
Acute Diarrhœa, - - -	...	...	1	1
Beri-beri, - - - - -	8	...	...	...
Malta Fever, - - - - -	1	...	...	...
Continued Fever, - - -	1	...	...	...
Pseudo Diphtheria, - - -	1	1	4	...
Syphilis, - - - - -	1	...	1	...
Septicæmia, - - - - -	...	...	2	2
Totals, - - - - -	44	8	39	8

TABLE XI.—Continued.

UNCLASSIFIED DISEASES.

(b) NON-INFECTIOUS.

	MALES.		FEMALES.	
	Cases.	Deaths.	Cases.	Deaths.
Pneumonia, - - - -	16	6	6	3
Broncho-pneumonia, - - -	4	3	5	4
Bronchitis, - - - -	3	...	6	...
Stomatitis, - - - -	...	...	2	...
Acute Glossitis and Toxaemia, -	1	1	...	...
Faucitis, - - - -	3	...	6	...
Tonsillitis, - - - -	4	...	5	...
Specific Sore Throat, - - -	...	...	1	...
Laryngitis, - - - -	2	...	...	...
Gastric Enteritis, - - - -	1	1	1	...
Gastritis, - - - -	...	...	1	...
Appendicitis, - - - -	1	...	...	...
Otitis, - - - -	1	...	...	...
Dacruocystitis, - - - -	1	...	...	...
Septic Conditions, - - - -	20	1	14	...
Prepatellar Bursitis, - - -	...	...	1	...
Acute Osteomyelitis and Phthisis				
Pulmonalis, - - - -	1	1	...	...
Osteomyelitis and Cellulitis, - -	1	...	...	...
Osteomyelitis, - - - -	1	...	...	...
Cerebral Haemorrhage, - - -	...	...	1	1
Spinal Caries, - - - -	...	...	1	...
Purpura, - - - -	...	...	1	...
Uraemia, - - - -	1	1	...	...
Acute Rheumatism, - - - -	...	...	1	...
Cardiac Disease, - - - -	1	...	...	...
Urticaria, - - - -	1	...	...	...
Herpes, - - - -	...	...	1	...
Lichen, - - - -	...	...	1	...
Insanity after Erysipelas, - -	1	...	...	...
Rickets, - - - -	1	...	...	...
Convulsions, - - - -	1	1	2	...
Hysteria, - - - -	...	...	1	...
Marasmus, - - - -	1	1	1	1
Abortion, - - - -	...	...	1	...
Premature Child, - - - -	1	1	1	1
Weakness after Sea Sickness, -	...	...	1	...
Exhaustion after injury, - -	1	...	...	...
Nil, - - - -	22	..	21	1
Nursing Mothers, - - - -	...	...	11	...
Members of the Staff with Non- infectious Diseases, - - -	1	...	21	...
Totals, - - - -	92	17	114	11

TABLE XII.

NUMBER OF PATIENTS ADMITTED INCUBATING A DISEASE DIFFERENT FROM THAT FOR WHICH THEY WERE ADMITTED.

DISEASE FOR WHICH ADMITTED.	DISEASE WHICH DEVELOPED.					
	Scarlet Fever.	Measles.	Diphtheria.	Whooping-cough.	Chicken-pox.	Rotheln.
Scarlet Fever, - - -	...	1	...	7	2	3
Diphtheria, - - -	3	...	...	3	3	...
Whooping-cough, - -	2	1	...	...	1	1
Non-infectious Disease, -	...	...	...	1	...	...
Chickenpox, - - -	...	...	...	1	...	...

TABLE XIII.

NUMBER OF PATIENTS INFECTED WITH DISEASES OTHER THAN THAT PRESENT ON ADMISSION TO HOSPITAL.

DISEASE FOR WHICH ADMITTED.	DISEASE ACQUIRED.				
	Scarlet Fever.	Diphtheria.	Whooping-cough.	Chickenpox.	Rotheln.
Scarlet Fever, - - -	...	3	2	9	5
Enteric Fever, - - -	1	...	...	...	...
Diphtheria, - - -	7	...	...	...	...
Whooping Cough, - -	9	...	...	2	6
Non-infectious Disease, -	...	...	...	1	...
Chickenpox, - - -	...	...	1	...	...

TABLE XIV.

INFECTIOUS DISEASES AMONG THE STAFF.

	Scarlet Fever.	Enteric Fever.	Rotheln.	Diphtheria.	Erysipelas.	Chicken-pox.
Doctors, - - - -	...	...	1	...	...	...
Nurses, - - - -	13	2	..	10	1	2
Maids, - - - -	3	...	...	1	...	...

PART V.

Statistics of the Smallpox Hospital, 1906-1907.

TABLE I.—TOTAL NUMBER OF CASES TREATED IN THE SMALLPOX HOSPITAL FROM 1ST JUNE, 1906, TO 31ST MAY, 1907.

	MALES.		FEMALES.		TOTAL.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Variola, - - - -	1	...	...	...	1	...
Chickenpox, - - -	79	2	55	1	134	3
Chickenpox and Measles, -	...	...	1	...	1	...
Chickenpox and Whooping-cough, - - - -	10	1	6	...	16	1
Chickenpox and Scarlet Fever, - - - -	1	...	1	1	2	1
Chickenpox and Parotitis, -	...	...	2	...	2	...
Whooping-cough, - .	2	...	1	...	3	...
Syphilis, - - - -	1	...	...	...	1	...
Lichen, - - - -	3	1	...	..	3	1
Acne, - - - -	1	...	...	...	1	...
Nil, - - - -	1	...	2	...	3	...
Totals, - - - -	99	4	68	2	167	6

TABLE II.—TOTAL NUMBER OF CASES OF CHICKENPOX TREATED
FROM 1ST JUNE, 1906, TO 31ST MAY, 1907.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	8	1*	8	1†	16	2	12·5
1—2	13	...	19	1§	32	1	3·1
2—3	13	...	8	...	21	...	...
3—4	11	2‡	6	...	17	2	11·7
4—5	11	...	9	...	20	...	...
5—6	9	...	5	...	14	...	...
6—7	5	...	5	...	10	...	...
7—8	4	...	2	...	6	...	...
8—9	5	...	...	...	5	...	...
9—10	2	...	...	...	2	...	...
10—15	1	...	2	...	3	...	...
15—20	3	...	...	...	3	...	...
20—25	2	...	...	...	2	...	...
25—30	2	...	1	...	3	...	...
30—40	1	...	...	...	1	...	...
Totals,	90	3	65	2	155	5	3·2

* This patient died of pneumonia.

† This patient died of scarlet fever.

§ This patient died of cellulitis.

‡ One of these patients died of cellulitis and the other of whooping-cough and broncho-pneumonia.

PART VI.

Statistics of the Smallpox Hospital, 1907-1908.

TABLE I.—TOTAL NUMBER OF CASES TREATED IN THE SMALLPOX HOSPITAL FROM 1ST JUNE, 1907, TO 31ST MAY, 1908.

	MALES.		FEMALES.		TOTAL.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Variola, - - - -	1	...	1	...	2	...
Chickenpox, - - - -	69	...	73	5	142	5
Chickenpox and Whooping-cough, - - - -	2	...	3	...	5	...
Chickenpox and Scarlet Fever, - - - -	3	...	...	...	3	...
Chickenpox and Measles, -	14	1	7	...	21	1
Chickenpox, Measles, and Whooping-cough, - -	1	...	...	...	1	...
Measles and Whooping-cough, - - - -	1	...	...	...	1	...
Measles, - - - -	2	1	1	...	3	1
Scarlet Fever, - - - -	1	...	...	...	1	...
Scabies, - - - -	1	...	1	...	2	...
Pulmonary Tuberculosis, -	1	...	...	...	1	...
Bronchitis, - - - -	...	...	1	...	1	...
Nursing Mothers, - - -	...	...	1	...	1	...
Totals, - - - -	96	2	88	5	184	7

TABLE II.—TOTAL NUMBER OF CASES OF CHICKENPOX TREATED
FROM 1ST JUNE, 1907, TO 31ST MAY, 1908.

Age-Periods.	MALES		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	12	...	6	2*	18	2	11·1
1—2	11	1†	15	3‡	26	4	15·4
2—3	13	...	10	...	23	...	...
3—4	6	...	9	...	15	...	...
4—5	10	...	8	...	18	...	...
5—6	15	...	8	...	23	...	...
6—7	5	...	6	...	11	...	...
7—8	5	...	9	...	14	...	...
8—9	2	...	3	...	5	...	...
9—10	2	...	1	...	3	...	...
10—15	...	...	4	...	4	...	...
15—20	2	...	1	...	3	...	...
20—25	3	...	...	...	3	...	...
25—30	2	...	3	...	5	...	...
30—35	1	...	...	...	1	...	...
Totals,	89	1	83	5	172	6	3·4

* One of these patients died of Eczema, and the other of Marasmus.

† This patient died of Measles and Broncho-pneumonia.

‡ One of these patients died of Septicæmia, one of Meningitis, and the other of Marasmus.

PART VII.

Statistics of the Smallpox Hospital, 1908-1909.

TABLE I.—TOTAL NUMBER OF CASES TREATED IN THE SMALLPOX HOSPITAL FROM 1ST JUNE, 1908, TO 31ST MAY, 1909.

	MALES.		FEMALES.		TOTAL.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Chickenpox, - - - -	86	1	79	2	165	3
Chickenpox and Whooping-cough, - - - -	4	...	...	...	4	...
Scabies, - - - -	7	1	7	...	14	1
Septicæmia, - - - -	1	...	...	...	1	...
Nil, - - - -	1	...	1	...	2	...
Nursing Mothers, - -	...	...	5	...	5	...
Totals, - - - -	99	2	92	2	191	4

TABLE II.—TOTAL NUMBER OF CASES OF CHICKENPOX TREATED
FROM 1ST JUNE, 1908, to 31ST MAY, 1909.

Age-Periods.	MALES.		FEMALES.		TOTAL.		Mortality per cent.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
0—1	14	—	11	1*	25	1	4'0
1—2	9	1†	7	1‡	16	2	12'5
2—3	9	...	3	...	12	...	...
3—4	13	...	10	...	23	...	...
4—5	10	...	10	...	20	...	...
5—6	11	...	14	...	25	...	...
6—7	8	...	7	...	15	...	...
7—8	7	...	5	...	12	...	...
8—9	1	...	3	...	4	...	...
9—10	1	...	2	...	3	...	...
10—15	1	...	5	...	6	...	...
15—20	1	...	...	...	1	...	...
20—25	3	...	2	...	5	...	...
25—30	...	...	...	...	...	...	...
30—35	1	...	...	...	1	...	...
35—40	...	...	...	...	...	...	...
40—45	1	...	...	...	1	...	...
Totals,	90	1	79	2	169	3	2'7

* This patient died from Pneumonia.

† This patient died from General Tuberculosis.

‡ This patient died from Laryngitis.

