

APPENDIX No. 4.

STATISTICS OF SICK CASES IN CERTAIN TRAINING ESTABLISHMENTS AND AT THE ROYAL HOSPITAL SCHOOL, GREENWICH.

(Note.—Shotley includes "Ganges II.")

Average Ratios for 5 Years.

Establishment.	Average Force.	No. of Cases of Disease.	No. of Cases per Person.	Average No. Daily Sick.	Ratio per 1,000 of Average Force Sick Daily.	No. Dead.	Ratio per 1,000 Dead.	No. Invalided.	Ratio per 1,000 Invalided.
"Impregnable," 1906-10	888	1,056	1·31	49·79	55·87	5	5·59	29	33·43
"Shotley," 1906-10	1,051	1,211	1·25	40·18	38·25	6	6·05	10	9·3
Greenwich, Royal Hospital School, May 1906-11.	996	806	·83	23·06	23·75	1	1·49	5	5·42

Case Ratio per 1,000 of Strength.

Establishment.	Infectious Disease.	Pneumonia.	Scabies.	Rheumatic Fever.	Nervous Diseases.	Skin Diseases.	Diseases of Respiratory System.	Diseases of Digestive System.
"Impregnable," 1906-10	77·38	26·84	32·83	53·77	45·46	141·40	209·76	390·31
"Shotley," 1906-10	143·74	(4 years.) 18·82	33·26	40·12	19·18	131·66	391·91	337·27
Greenwich, Royal Hospital School, May 1906-11.	122·64	(4 years.) 9·26	20·80	17·10	4·15	116·06	134·76	217·04

Statistical Comparison of the Health of four Training Establishments, "Impregnable," Shotley, Royal Hospital School, Greenwich, and "Exmouth" (New Hulk) for 5 Years 1906-10.

Establishment.	Average Force.	No. of Cases of Disease.	No. of Cases per Person.	Average No. Daily Sick.	Ratio per 1,000 of Average Force Sick Daily.	No. Dead.	Ratio per 1,000 Dead.	No. Invalided.	Ratio per 1,000 Invalided.
"Impregnable," 1910	1,150	1,354	1·32	54·25	47·17	3	2·6	31	26·95
Shotley, 1910	1,378	1,196	·94	48·62	35·28	5	3·63	22	15·95
Royal Hospital School, May 1910-11.	977	788	·80	25·72	26·16	0	·0	3	3·14
"Impregnable," 1909	866	1,003	1·27	45·69	52·76	6	6·92	27	31·17
Shotley, 1909	982	1,228	1·32	32·57	33·17	6	6·1	6	6·1
Royal Hospital School, May 1909-10.	976	991	1·01	24·61	25·21	2	2·04	6	6·1
"Impregnable," 1908	907	1,258	1·54	73·1	80·6	6	6·61	41	45·2
Shotley, 1908	1,122	1,692	1·63	49·17	43·82	4	3·56	7	6·23
Royal Hospital School, May 1908-09.	966	960	0·99	24·08	24·92	1	1·24	1	1·24
"Impregnable," 1907	705	546	·86	27·91	39·58	4	5·67	25	35·46
Shotley, 1907	779	857	1·18	28·6	36·71	3	3·85	4	5·13
Royal Hospital School, 1907-8.	961	600	0·62	20·24	21·06	3	3·12	8	8·32
"Impregnable," 1906	810	1,120	1·57	·48	59·25	5	6·17	23	28·39
Shotley, 1906	993	1,081	1·19	41·96	42·25	13	13·09	13	13·09
Royal Hospital School, 1906-7.	964	692	0·71	21·40	21·40	1	1·05	8	8·29
"Exmouth," 1910	674	885	1·31	?	?	1	1·33	10	13·35
"Exmouth," 1909	656	1,035	1·57	?	?	0	·0	?	?
"Exmouth," 1908	589	No. not given "Health maintained."	—	?	42·44	1 (Tuber- cle.)	1·69	"Very few."	—
"Exmouth," 1907	535	943	1·76	?	?	0	·0	?	?
"Exmouth," 1906	578	966	1·65	?	?	1	1·73	?	?

Tuberculosis in "Impregnable," 1902-6 = 24.

" " " " Royal Hospital School, 1902-6 = 6.

Case Ratio per 1,000 of Strength.

Establishment.	Infectious Disease.	Pneumonia.	Scabies.	Rheumatic Fever.	Nervous Diseases.	Skin Diseases.	Diseases of Respiratory System.	Diseases of Digestive System.
"Impregnable," 1910 -	86.18	12.17	13.91	57.39	42.6	114.78	262.6	486.95
Shotley, 1910 -	167.63	9.43	37.73	42.81	26.14	52.25	258.34	222.78
Royal Hospital School, 1910-1911.	159.5	4.1	21.4	15.43	2.08	113.3	124.5	203.7
"Impregnable," 1909 -	51.84	40.41	27.71	42.72	39.49	153.58	302.54	404.15
Shotley, 1909 -	91.64	34.62	34.62	44.8	15.27	59.06	570.26	363.54
Royal Hospital School, 1909-1910.	227.24	11.12	19.4	26.61	3.12	46.43	191.51	232.24
"Impregnable," 1908 -	85.99	26.44	33.07	62.84	69.45	187.43	306.5	352.81
Shotley, 1908 -	78.43	10.69	32.97	54.36	19.6	136.36	641.71	467.84
Royal Hospital School, 1908-1909.	175.67	14.49	42.44	15.52	6.21	73.40	150.10	263.97
"Impregnable," 1907 -	56.73	28.36	42.55	55.31	22.69	119.14	200.00	211.34
Shotley, 1907 -	211.81	20.53	16.68	38.51	21.82	143.77	186.13	377.40
Royal Hospital School, 1907-1908.	31.21	8.32	9.36	8.32	3.12	223.72	80.12	166.45
"Impregnable," 1906 -	106.17	?	46.91	50.61	53.08	132.09	427.16	496.2
Shotley, 1906 -	169.18	?	44.31	20.14	13.09	266.86	303.12	254.78
Royal Hospital School, 1906-1907.	19.60	8.29	11.41	19.60	6.21	123.45	127.59	218.86

Other things being equal it might be expected that Greenwich Boys, age $11\frac{1}{2}$ to $15\frac{1}{2}$, would show a much higher Sick, Invaliding and Death Rate than the older boys of "Impregnable" and Shotley. These tables, however, which are compiled from the Blue Book and the Annual Reports of Greenwich and "Exmouth," prove conclusively that the reverse conditions consistently prevail. They also show that Shotley, although not quite satisfactory in many ways, gives a very much better record than the "Impregnable." The returns of the "Exmouth," scanty and incomplete though they be, demonstrate that she is inferior from a health point of view to the Royal Hospital School, Greenwich. The "Exmouth" returns are taken from the time the new specially built hulk was commissioned.

Taking the aggregate period, and comparing Shotley, "Impregnable" and Greenwich, it is worthy of note that the invaliding rate of Shotley and "Impregnable" exceeds that of Greenwich in every year, the rate in "Impregnable" being, in turn, higher than that at Shotley. The death rate in all these establishments is not large, but Greenwich maintains its low rate while Shotley is rather above "Impregnable."

The favourable statistics from Greenwich Hospital School are no doubt mainly due to the superior hygienic arrangements of the School buildings. The boys are provided with well-built dormitories (all on the first floor), class rooms, dining hall, recreation room and gymnasium. Each is reserved to its own purpose; all possess an abundance of good natural light, cubic space, floor space and ventilation as evidenced by the following table. Each boy has his own lavatory basin. There is an ample number of shower baths, two swimming baths and a good provision of hygienic w.c.'s and urinals, with a suitably adjacent night service in connection with each dormitory. The good health of the boys is further demonstrated by the fact that the medical staff is limited to one medical officer, one sick berth steward and four nurses, although all cases of illness are treated throughout, with the exception of major operation cases, Scarlet Fever, Diphtheria and Smallpox, and although the recruiting work is almost as heavy as at Shotley or in "Impregnable." The Medical Officer also has medical charge of the R.N. College. It should be noted that the climate of Greenwich, damp, foggy and relaxing as it is, due to the proximity of the River, and the indifferent atmosphere of a densely populated, poverty stricken district, crowded with factories and manufactories, cannot compete with Plymouth or Shotley on equal terms. The boys' scale of diet also is inferior to that of Shotley and "Impregnable" boys.