

The medical report for the State of Pahang.

Contributors

Pahang.

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THE MEDICAL REPORT

THE MEDICAL REPORT

FOR THE

STATE OF PAHANG,

1907.

RETURN OF THE STATISTICS OF POPULATION OF PAHANG
FOR THE YEAR 1907.

	Europeans.	Eurasians.	Chinese.	Malays.	Indians.	Others.	Total.
Number of Inhabitants in 1901*	134	46	8,695	73,462	1,227	549	84,113
„ Births during the year 1907	3	1	93	2,188	19	7	2,311
„ Deaths „ „	2	1	566	1,452	122	5	2,148
„ Immigrants „ „†							
„ Emigrants „ „†							
„ Inhabitants in 1907†							
Increase							
Decrease							

* Last census Returns. † No Return available.

METEOROLOGICAL RETURN OF KUALA LIPIS FOR THE YEAR 1907.

	Temperature.						Rainfall.		Winds.	
	Solar Maximum.	Minimum on Grass.	Shade Maximum.	Shade Minimum.	Range.	Mean.	Amount in Inches.	Degree of Humidity.	General Direction.	Average Force.
January			91	65	17.2	76.7	4.71			
February			92	62	20.3	77.6	.60			
March			93	68	20.1	79.6	3.12			
April			96	65	22.5	80.9	4.30			
May			93	68	19.3	80.2	8.07			
June			93	68	19.3	79.8	11.85			
July			92	67	20.1	79.3	8.66			
August			94	66	21.5	79.2	1.62			
September			93	67	15	77.6	8.30			
October			92	66	19.6	79.3	9.05			
November			92	68	17.5	78.4	5.71			
December			87	68	15.2	77.5	13.15			
			91.5	66.5	18.9	78.8	79.74			

RETURN OF DISEASES AND DEATHS IN 1907 AT THE FOLLOWING INSTITUTIONS:—

KUALA LIPIS GENERAL HOSPITAL; DISTRICT HOSPITALS AT RAUB, BENTONG, PEKAN AND KUANTAN; AND GAOL HOSPITALS AT KUALA LIPIS AND PEKAN.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
GENERAL DISEASES.					
Small-pox	...	53	2	53	
Chicken-pox	...	14	...	14	
Measles	...	22	...	22	
Typhus	...				
Dengue	...	1	...	1	
Influenza	...				
Plague	...				
Mumps	...	3	...	3	
Diphtheria	...				
Febricula	...				
Enteric Fever	...	4	...	4	1
Cholera	...				
Dysentery	13	314	79	327	8
Yellow Fever	...				
Beri-beri	28	380	63	408	56
Malarial Fever—	2	...	...	2	
(a) Intermittent—	...				
Quotidian	...	21	...	21	1
Tertian	...	11	...	11	
Quartan	...				
Irregular	...				
Type undiagnosed	33	1,469	69	1,502	51
(b) Remittent	...	1	...	1	
(c) Pernicious R.	...	4	2	4	
Phagedæna—					
(a) Sloughing	...				
(b) Hospital gangrene	...				
Erysipelas	...	1	...	1	
Carried forward ...	76	2,298	215	2,374	117

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	*Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	76	2,298	215	2,374	117
GENERAL DISEASES—(cont.)					
Pyæmia	...	1	1	1	
Septicæmia	...	3	1	3	
Tetanus	...				
Tubercle	1	7	3	8	1
Leprosy—	...	1	...	1	
(a) Tubercular	...	3	...	3	3
(b) Anæsthetic	...				
Yaws	...	2	...	2	
Syphilis—	1	...	...	1	
(a) Primary	...	55	...	55	
(b) Secondary	2	31	2	33	1
(c) Inherited	1	43	2	44	4
Gonorrhœa	1	29	...	30	3
Hydrophobia	...				
Scurvy	...	1	1	1	
Alcoholism	...	1	1	1	
Delirium Tremens	...				
Rheumatic Fever	...	61	...	61	7
Rheumatism	...				
Gout	...				
New Growths, non-malignant	...	1	...	1	
Do. malignant	...	2	1	2	1
Rickets	...				
Anæmia	3	73	7	76	12
Myxœdema	...				
Diabetes mellitus	...				
Do. insipidus	...				
Debility	16	174	40	190	8
Other Diseases	...	1	...	1	
<i>Carried forward</i> ...	101	2,787	274	2,888	157

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	101	2,787	274	2,888	157
LOCAL DISEASES.					
NERVOUS SYSTEM.					
Sub-Section 1—					
Neuritis ...	...	3	...	3	1
Meningitis ...	...	1	1	1	...
Myelitis ...	...	...	...	...	...
Hydrocephalus ...	...	...	...	...	...
Encephalitis ...	...	...	...	...	...
Abscess of brain ...	...	...	...	...	...
Congestion of brain ...	...	...	...	...	...
Sub-Section 2—					
Apoplexy ...	...	4	3	4	1
Paralysis ...	...	5	1	5	1
Bed-sore ...	...	...	...	...	...
Chorea ...	...	...	...	...	...
Epilepsy ...	...	4	...	4	...
Neuralgia ...	...	2	...	2	...
Hysteria ...	...	...	...	...	...
Sub-Section 3—					
Idiocy ...	...	...	...	...	...
Mania ...	1	2	...	3	...
Melancholia ...	...	6	...	6	...
Dementia ...	...	1	...	1	...
Delusional Insanity ...	...	...	...	...	...
Other Diseases of the System ...	1	12	2	13	...
EYE.					
Conjunctiva—					
Conjunctivitis ...	...	4	...	4	...
Cornea—					
Keratitis ...	...	...	...	...	...
Ulceration ...	...	8	1	8	...
Opacity ...	...	...	...	...	...
<i>Carried forward</i> ...	103	2,839	282	2,942	160

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	103	2,839	282	2,942	160
LOCAL DISEASES—(cont.)					
EYE—(cont.)					
Schlerotic—					
Staphyloma... ..					
Iris—					
Iritis	...	1	...	1	
Glaucoma	...				
Hypopyon	...				
Lens—					
Cataract	...	1	...	1	
Eyelids—					
Entropion	...	1	...	1	
Other Eye Diseases	2	9	...	11	1
EAR.					
Inflammation	...				
Other Ear Diseases	...				
NOSE.					
Inflammation	...	1	...	1	
Other Nose Diseases	...	1	...	1	
CIRCULATORY SYSTEM.					
Membranes—					
Pericarditis... ..	...				
Endocarditis	...				
Valvular Diseases	...	3	2	3	
Muscular Substance—					
Hypertrophy	...				
Dilatation	...				
Other Diseases of the System	...	1	...	1	
RESPIRATORY SYSTEM.					
Larynx—					
Laryngitis	...	2	...	2	
<i>Carried forward</i> ...	105	2,859	284	2,964	161

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	105	2,859	284	2,964	161
LOCAL DISEASES—(cont.)					
RESPIRATORY SYSTEM—(cont.)					
Bronchi—					
Bronchitis ...	1	79	...	80	3
Asthma ...	...	13	...	13	2
Lung—					
Congestion ...	...	...	...	...	...
Hæmoptysis ...	...	1	...	1	...
Pneumonia ...	...	36	18	36	2
Gangrene ...	...	...	...	...	...
Phthisis ...	7	94	45	101	3
Emphysema ...	...	...	...	...	...
Pleura—					
Pleurisy ...	1	3	2	4	...
Empyema ...	...	...	...	...	...
Other Diseases of the System ...					
DIGESTIVE SYSTEM.					
Mouth—					
Stomatitis ...	...	4	...	4	...
Dental Periostium—					
Gum-boil ...	...	...	...	...	...
Fauces—					
Tonsillitis ...	...	...	...	...	...
Stomach—					
Gastritis ...	...	4	2	4	...
Dyspepsia ...	1	50	...	51	2
Intestines—					
Enteritis ...	...	1	...	1	...
Sprue ...	...	...	...	...	...
Hernia ...	...	5	...	5	1
Constipation ...	...	9	...	9	...
Diarrhœa ...	8	175	45	183	7
<i>Carried forward</i> ...	123	3,333	396	3,456	181

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	123	3,333	396	3,456	181
LOCAL DISEASES—(cont.)					
DIGESTIVE SYSTEM—(cont.)					
Rectum and Anus—					
Hemorrhoids ...	...	10	...	10	2
Liver—					
Hepatitis ...	...	1	...	1	1
Abscess Liver ...	...	2	1	2	...
Cirrhosis ...	...	3	1	3	...
Congestion Liver ...	...	...	...	...	...
Jaundice ...	...	12	6	12	...
Peritoneum—					
Peritonitis ...	...	4	2	4	...
Ascites ...	1	8	6	9	...
Other Diseases of the System ...	...	22	2	22	...
LYMPHATIC SYSTEM.					
Spleen—					
Splenitis ...	9	61	2	70	3
Bubo ...	1	7	...	8	...
Lymphangitis ...	...	3	...	3	...
Elephantiasis ...	...	2	...	2	...
Other Diseases of the System ...	...	...	...	...	...
URINARY SYSTEM.					
Kidney—					
Acute Nephritis ...	...	...	...	...	...
Bright's Disease ...	3	31	12	34	3
Hæmaturia ...	...	...	...	...	...
Chyluria ...	...	...	...	...	...
Bladder—					
Cystitis ...	...	...	...	...	...
Calculus ...	...	...	...	...	...
Other Diseases of the System ...	...	1	...	1	...
<i>Carried forward</i> ...	137	3,500	428	3,637	190

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	137	3,500	428	3,637	190
LOCAL DISEASES—(cont.)					
GENERATIVE SYSTEM.					
Urethra—					
Stricture ...	...	3	...	3	...
Prepuce—					
Phimosis ...	...	4	...	4	...
Paraphimosis ...	...	1	...	1	1
Penis—					
Soft Chancre ...	...	18	...	18	1
Scrotum—					
Sloughing Scrotum ...	...	1	...	1	...
Tunica Vaginalis—					
Hydrocele ...	...	...	...	...	...
Testicle—					
Orchitis ...	...	3	...	3	...
Epididymitis ...	...	...	...	...	...
Other Diseases (male) ...	...	3	...	3	...
Uterus—					
Metritis ...	...	...	...	...	...
Uterine Displacements ...	...	...	...	...	...
Amenorrhœa ...	...	1	...	1	...
Dysmenorrhœa ...	...	...	...	...	...
Menorrhagia ...	...	...	...	...	...
Leucorrhœa ...	...	...	...	...	...
Other Diseases (female) ...	...	5	1	5	...
ORGANS OF LOCOMOTION.					
Bones—					
Ostitis ...	...	2	...	2	...
Periostitis ...	...	1	...	1	...
Caries ...	1	5	...	6	2
Necrosis ...	...	3	...	3	1
<i>Carried forward</i> ...	138	3,550	429	3,688	195

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.					* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
						Admis- sions.	Deaths.		
<i>Brought forward</i> ...					138	3,550	429	3,688	195
LOCAL DISEASES—(cont.)									
ORGANS OF LOCOMOTION—(cont.)									
Joints—									
Synovitis	...	...	...	...	2	8	2	10	
Ankylosis	...	...	...	...					
Spine—									
Caries Spine	...	...	...	...					
Curvature Spine	...	...	...	...					
Muscles—									
Myalgia	...	...	...	...		2	...	2	
Other Diseases	...	...	...	...		2	...	2	
CONNECTIVE TISSUE.									
Cellulitis	...	...	...	...	...	3	...	3	
Abscess	...	...	...	...	3	64	4	67	3
Gangrene	...	...	...	...	...	1	1	1	
SKIN.									
Eczema	...	...	...	...	...	16	...	16	1
Psoriasis	...	...	...	...					
Herpes...	...	...	...	...	...	2	...	2	
Do. Zoster...	...	...	...	...					
Ulcer	...	...	...	...	25	398	5	423	37
Boil	...	...	...	...	...	8	...	8	
Carbuncle	...	...	...	...	...	2	...	2	
Onychia	...	...	...	...	...	1	...	1	
Whitlow	...	...	...	...	...	2	...	2	
Other Diseases	...	...	...	...	...	8	...	8	
GENERAL INJURIES.									
Burns and Scalds	...	...	...	...	1	11	...	12	
Sunstroke	...	...	...	...					
Multiple Injury	...	...	...	...	...	6	...	6	
Starvation	...	...	...	...	...	2	2	2	
Shock	...	...	...	...					
<i>Carried forward</i> ...					169	4,086	443	4,255	236

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.		* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
			Admis- sions.	Deaths.		
	<i>Brought forward</i> ...	169	4,086	443	4,255	236
LOCAL INJURIES.						
Burns and Scalds	... ..					
Wounds	... ..	1	117	2	118	9
Sprains	... ..	1	18		19	
Dislocations	... ..		1		1	
Fractures, simple	... ..		14	4	14	2
Do. compound...	... ..		7	3	7	2
Other Injuries	... ..		12		12	
MALFORMATIONS						
SURGICAL OPERATIONS.						
Surgical Operations	... ..		9		9	1
POISONS.						
Mercury	... ..					
Alcohol	... ..					
Opium...	... ..		18		18	
Other Poisons...	... ..					
POISONED WOUNDS	... ..		4		4	1
	<i>Carried forward</i> ...	171	4,286	452	4,457	251

* i.e., the year previous to that for which the Return is made.

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‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1906.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1907.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	171	4,286	452	4,457	251
PARASITES.					
Distomum Sinense ...					
Toenia Solium ...					
Ascaris Lumbricoides ...	1	13	...	14	1
Anchylostomum Duodenale ...		2	...	2	
Oxyuris Vermicularis ...					
Filaria Medinensis ...		2	...	2	
Acarus Scabiei ...	2	37	...	39	2
Tinea Circinata ...		3	...	3	
Other Parasites ...		4	...	4	
UNDER OBSERVATION ...	1	21	...	22	1
TOTAL ...	175	4,368	452	4,543	255

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

FEDERATED MALAY STATES.

STATE OF PAHANG.

MEDICAL REPORT FOR THE YEAR 1907.

POPULATION.

Owing to the absence of any returns regarding immigration and emigration, it is impossible to estimate either the population or the various nationalities of the State. The total population is probably over 100,000.

VITAL STATISTICS.

The returns of births and deaths for the different nationalities and sexes in the various districts are as under:

RETURN OF BIRTHS.

District.	Nationality and Sex.												Total.		
	Europeans.		Eurasians.		Malays.		Chinese.		Indians.		Others.				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Lipis ...	...	...	...	...	333	327	4	4	1	3	2	1	340	335	
Raub ...	...	1	1	...	92	97	21	20	5	4	3	...	122	122	
Temerloh ...	...	...	...	...	341	303	...	...	...	...	...	...	341	303	
Pekan ...	...	...	...	...	305	258	4	1	2	4	...	...	311	263	
Kuantan ...	...	1	1	...	79	53	16	23	...	...	...	1	96	78	
Total {	Male ...	1	...	1	...	1,150	...	45	...	8	...	5	...	1,210	...
	Female ...	...	2	...	...	1,038	...	48	...	11	...	2	...	1,101	...
Grand Total	...	3		1		2,188		93		19		7		2,311	

RETURN OF DEATHS.

District.	Nationality and Sex.												Total.	
	Europeans.		Eurasians.		Malays.		Chinese.		Indians.		Others.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Lipis	1	...	...	1	214	178	11	3	9	7	...	...	235	189
Raub	...	...	...	...	83	74	142	16	53	16	2	1	280	107
Temerloh ...	...	...	...	...	201	181	...	...	1	...	...	...	202	181
Pekan	...	...	...	...	200	160	6	...	1	...	...	...	207	160
Kuantan ...	1	...	...	...	106	53	372	16	33	2	...	2	512	73
Total { Male ...	2	...	...	...	804	...	531	...	97	...	2	...	1,436	...
	Female ...	...	...	1	...	646	...	35	...	25	...	3	...	710
Grand Total ...	2		1		1,452 *		566		122		5		2,148 *	

* Including 2 (sex unknown).

The Chinese births show an excess of 18 over last year and a diminution of 140 deaths as compared with the same period.

Indians show 2 more births and 25 less deaths than 1906.

It is satisfactory to note that the Malay birth-rate is rising, the excess of births over deaths being 736, for some years previously it has shown a steady fall, the number of births registered was 2,188 as compared with 1,654 in 1906.

Malay deaths are 64 in excess of last year.

AGES AT DEATH.

The ages at death are recorded in cycles as below shown, the excessive infantile mortality commented on last year is still noticeable, the percentage of children that died under five years of age was no less than 33.29 of the deaths recorded :

	Male.	Female.	Total.
Unknown	13	18	33*
Under 5 years	381	334	715
5-10	45	27	72
10-20	73	44	117
20-25	108	24	132
25-35	356	69	425
35-45	217	47	264
45-55	111	37	148
55-75	113	90	203
75 .. and above	18	21	39

ZYMOTIC DISEASE.

SMALL-POX.—Fifty-six cases and three deaths of this disease were reported during the year compared with ten cases and no deaths in 1906. The distribution was as under:

	Cases.	Deaths.
Pekan district	42	...
Kuantan	12	3
Lipis	2	...

with the exception of the Tamil at Pekan and one at Kuantan, all were Malays.

CHICKEN-POX.—Twelve cases in the Pekan district were reported, all being Malays, and eight cases in the Bentong district, all being Tamils. No deaths resulted.

MEASLES.—Thirty cases in the Pekan district and 35 in the Lipis district were notified, nine of these were Chinese, the rest Malays, none of the cases were fatal.

VACCINATION.

The number and nationality of those vaccinated were as under:

Two thousand four hundred and forty-seven more vaccinations were performed than last year, this being due to the occurrence of small-pox in the coast districts and to the appointment of another vaccinator for the Raub and Bentong districts, it being found impossible for two men to perform all necessary vaccinations in the State.

District.	Number vaccinated.						Result.			
	Europeans	Malays	Chinese	Indians	Others	Total.	Perfect.	Modified.	Failed.	Not seen.
Ulu Pahang	...	3,179	103	10	3	3,295	1,802	432	919	151
Lower Pahang	8	2,435	66	42	3	2,554	1,919	431	144	60
Total	8	5,614	169	52	6	5,849	3,721	863	1,063	211

* Including 2 (sex unknown).

The percentage of failures was 10.76 as compared with 19.25 in 1906, the inertia of the lymph from long keeping is responsible for many of these failures, but until better means of communication with out-lying parts are established a large supply of lymph must be necessarily carried by vaccinators proceeding long distances from their base hospitals.

Return of patients treated at the various State hospitals :

Hospital.	Remained 31st December, 1906.	Admitted during 1907.	Total.	Discharged.	Transferred.	Absconded.	Died.	Remained 31st December, 1907.	Percentage of deaths.	Percentage of deaths, excluding those dying within 48 hours.
Kuala Lipis ...	10	354	364	331	...	2	13	18	3.57	3.29
" Gaol ...	7	88	95	84	3	...	...	8	...	...
Raub ...	29	800	829	665	...	14	91	59	10.97	7.75
Bentong ...	100	2,407	2,507	2,002	3	83	296	123	11.80	9.16
Pekan ...	...	138	138	127	...	2	3	6	2.17	1.45
" Gaol ...	3	18	21	16	3	...	2	...	9.5	9.5
Kuantan ...	26	563	589	473	...	28	47	41	7.9	6.7
Total ...	175	4,368	4,543	3,698	9	129	452	255	9.94	7.67

This shows an excess of 317 over the number treated last year, the bulk of the extra admissions being at Raub, and these consisting chiefly of Public Works Department and estate coolies.

One thousand one hundred Public Works Department coolies were admitted at the various State hospitals with 52 deaths, the majority of the deaths being from bowel complaints; Bentong hospital absorbing the largest number from the road construction in the vicinity of that town.

The District Surgeon, Kuantan, reports that the establishment of a Malay ward and a Malay dresser at Kuantan has resulted in a largely increased number of Malays entering hospital.

The absence of any European accommodation at Kuantan has led to one European having to be treated in the office and another in the room reserved for operations.

The chief diseases treated for the past four years, with the number of deaths, from each were :

Disease.	1904.		1905.		1906.		1907.	
	Number treated.	Deaths.	Number treated.	Deaths.	Number treated.	Deaths.	Number treated.	Deaths.
Malarial fever ...	641	28	671	30	1,241	37	1,539	71
Beri-beri ...	219	37	401	67	449	76	408	63
Dysentery ...	129	37	305	51	506	125	327	79
Venereal disease ...	81	2	153	1	208	3	226	4
Lung diseases ...	90	41	224	65	216	51	238	65
Diarrhoea ...	100	19	80	17	127	32	183	45

The admissions for malaria show a steady increase throughout almost the entire State; a considerable number of these admissions, however, are among Indian immigrant coolies new to the country.

The death-rate from malaria is, as shown, nearly double that of 1906.

Beri-beri and dysentery for the first time for five years show a diminished number of admissions, these being chiefly noticeable at the coast hospitals and Bentong, Raub showing an increase of 26 cases. The death-rate is, on the whole, lower.

Venereal disease, as above seen, has increased steadily among all classes, the number of out-patients applying for relief for this disease has likewise increased, these, moreover, form but a small fraction of those affected, the more serious complication only compelling patients to seek relief.

Parboiled rice was given to all beri-beri cases on admission when the condition allowed of this diet.

As the greatest number of beri-beri cases in this State appear at Raub and Bentong hospitals a return is appended showing the result as compared with the corresponding period of last year:

Hospital.	Number of cases admitted.	Number of deaths.	Deaths within 14 days.	Percentage excluding those within 14 days.
Raub, 1906 (Siam Rice) ...	10	2	1	10
" 1907 (Parboiled Rice) ...	37	8	7	3.3
Bentong, 1906 (Siam Rice) ...	184	27	13	8.19
" 1907 (Parboiled Rice) ...	125	27	14	11.71

It is but fair to add that numbers of the beri-beri cases recorded at Bentong were in a very debilitated condition on admission, while the shortness of the staff at this hospital precludes that individual attention to bad cases can be constantly afforded by a qualified man; it is unfortunate, also, that in this as in all other diseases the majority of the hospital dressers are entirely alien in language, sympathy or ideas to the bulk of the patients they attend.

A comparative statement, showing the number of patients treated at the State hospitals for the past six years, is as under:

Year.	In-patients.			Out-patients.	
	Total treated.	Deaths.	Percentage of deaths.	Total treated.	
1902 ...	1,894	230	12.14	7,620	
1903 ...	2,008	221	11.05	13,849	
1904 ...	2,206	232	10.51	13,312	
1905 ...	2,984	350	11.72	15,778	
1906 ...	4,055	439	10.83	14,351	
1907 ...	4,543	452	9.94	14,163	

A satisfactory feature of the above is the gradually declining death-rate among those admitted. Excluding those received in a moribund condition, the percentage of deaths was 7.67.

OUT-PATIENTS.

The number of out-patients treated at the various hospitals and dispensaries for the past three years is as under:

Hospital.	Number of new cases.			Number of repetitions.			Total treated.		
	1905.	1906.	1907.	1905.	1906.	1907.	1905.	1906.	1907.
Kuala Lipis ...	4,196	3,675	2,877	568	420	396	4,764	4,095	3,273
Raub ...	2,168	2,245	2,452	455	253	202	2,623	2,498	2,654
Tras dispensary ...	445	498	583	33	18	17	478	516	602
Bentong ...	3,746	3,962	3,921	555	383	212	4,319	4,345	4,133
Pekan ...	1,674	1,461	1,268	215	368	312	1,889	1,829	1,580
Kuantan ...	1,363	843	1,182	342	225	121	1,705	1,068	1,303
Temerloh dispensary ...	...	...	551	...	...	67	...	...	618

The diseases for which the majority of the out-patients sought relief were:

Malarial fever ...	3,164 cases or repetitions
Skin affections ...	1,680
Minor injuries ...	919
Lung affections ...	707
Venereal disease ...	802
Dysentery and diarrhoea ...	466

A Malay dresser was placed at Temerloh in August and his services have been in continual requisition by the surrounding inhabitants since that date.

Skin affections and bowel complaints show a decrease as compared with last year, the latter being admitted to hospital when possible.

Venereal disease and minor injuries show a considerable increase over the previous year.

OPERATIONS.

Twelve major operations, with two deaths, and 131 minor operations, with one death, were performed during the year.

GAOLS.

The number of prisoners treated in Gaol hospitals was as under :

Station.	Remained 31st Dec., 1906.	Admitted.	Total.	Died.	Remained 31st Dec., 1907.
Kuala Lipis	7	88	95	...	8
Pekan	3	18	21	2	...
Total	10	106	116	2	8

No gaol hospital or accommodation for sick prisoners exists at either Raub, Bentong or Kuantan, though a gaol is under construction at the latter place. It is thus necessary to treat sick convicts in the ordinary wards of the district hospitals; at Raub five were so treated with one death; at Bentong 93 with one death; and at Kuantan 20 with no deaths.

The chief diseases for which such convicts were admitted were malaria, beri-beri, bowel complaints, debility, and Bright's-disease; numerous convicts were convicted suffering from some disease and serve their term of imprisonment in hospital.

POLICE.

The numbers and nationalities of the Police admitted were :

Hospital.	Sikhs.	Malays.	Chinese.	Total.
Kuala Lipis	108	65	...	173
Raub	54	20	...	74
Bentong	34	37	1	72
Pekan	18	8	...	26
Kuantan	46	14	1	61
Total	260	144	2	406

The chief diseases treated were malaria, bowel complaints and venereal disease. No deaths occurred among any of the police admitted.

The number of admissions among Sikhs and Malays shows a considerable diminution as compared with last year.

The admission-rate for the year of the Police Force employed in Pahang was :

Sikhs	112 per cent. of Force
Malays	87 " "

PRIVATE HOSPITALS.

These are as under : The Pahang Consolidated Company retain the services of a Medical man, the remainder employ a native dresser.

Company.	Cases admitted.	Deaths.	Percentage of deaths.
Pahang Consolidated Co., Ltd.	512	78	15.23
Chong Heng Kongsi (Loke Yew)	307	36	11.72
Blat Tin Mining Co.	126	19	15.07
Maynard and Oates	164	6	3.77
Pahang Rubber Co.	300	10	3.3
J. W. Agar	42	1	2.38

The above percentages of deaths show a considerable diminution over those recorded in 1906, those of the hospitals in Ulu Kuantan are still unduly high; the actual death-rate of coolies employed in mining is higher than above shown owing to numerous coolies dying in the Kongsis or Kuantan district hospital. Until an Assistant Surgeon be placed in the Blat district, such mortality will continue to be high.

VETERINARY.

FOOT-AND-MOUTH DISEASE.—There was an epidemic of this disease in Ulu Pahang from March to August, 313 cattle being affected with three deaths; 208 of the cases with two deaths occurred in Raub district; the distribution of the disease was as follows:

Bullocks and cows ...	...	...	275 cases ...	...	...	2 deaths
Buffaloes ...	...	...	38 ..	...	...	1 ..

No immunity to disease of the latter animals is to be inferred from these figures, nearly all buffaloes at work on the roads for draught purposes contracted the disease, while as far as possible steps were taken to prevent the infection spreading into the kampongs.

A severe strain was placed on the Medical Department during this epidemic, the entire work of supervision falling upon the State Surgeon, Apothecary and dressers, owing to the absence of any veterinary staff in Pahang.

As these cattle were sick over more than a hundred and fifty miles of road, the frequent absence of part of the hospital staff performing veterinary duties exercised a detrimental effect upon the routine work of the hospitals.

METEOROLOGICAL.

Abstract of monthly rainfall and number of wet days at each station.

Month.	K. Lipis.		Bentong.		Raub.		Pekan.		Kuantan.		Temerloh.		B. Fraser.	
	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.
January ...	4.71	14	2.78	11	5.48	12	2.13	9	1.23	4	.75	5		
February ...	.60	5	3.44	6	3.95	5	10.99	7	10.85	8	2.29	3		
March ...	3.12	7	6.70	12	3.75	14	11.75	7	7.45	6	4.74	11		
April ...	4.30	8	4.35	11	3.44	8	.66	5	2.05	3	4.72	6		
May ...	8.07	13	6.15	13	6.77	14	12.89	9	4.96	9	4.71	11		
June ...	11.85	15	7.97	12	6.80	13	3.23	10	4.83	9	2.97	5		
July ...	8.66	14	4.45	9	4.87	13	7.51	10	7.82	14	3.74	8		
August ...	1.62	3	.74	4	.59	4	1.69	7	6.10	3	3.62	9		
September ...	8.30	13	5.54	11	5.67	16	9.69	13	6.99	10	10.37	15	4.46	19
October ...	9.05	18	7.62	14	4.71	16	8.23	9	15.28	8	5.47	11	9.17	21
November ...	5.71	15	10.80	18	11.82	23	11.23	21	4.38	12	5.86	13	14.64	28
December ...	13.15	20	9.28	14	7.36	31	31.33	18	28.74	23	9.47	19	12.83	23
Total ...	79.14	145	69.82	135	65.07	169	11.88	125	100.69	109	60.84	116	41.10	91

I am indebted to the courtesy of the Manager of the Sempam Tin Mines, Ltd., for the information regarding Bukit Fraser (Gap).

Barometrical and anemometrical observations are not recorded in this State.

Mean, maximum and minimum temperature, with daily and annual range for the year:

Station.	Maximum shade temperature.	Minimum shade temperature.	Mean.	Extreme daily range.	Extreme annual range.
Kuala Lipis...	87.79	69.32	78.55	23.75	18.47
Raub ...	91.08	66.25	78.66	22.02	25
Bentong ...	89.13	71.02	80.07	29	30
Temerloh ...	93.05	70	79.06		
Pekan ...	91	70.04	79.09	25	27
Kuantan ...	95	61	79.08	32	35

The maximum rainfall in any month was 31.33 in. at Pekan in December, and the greatest fall in 24 hours 15.50 in. at Pekan on the 20th December.

The minimum shade temperature recorded was 60° at Raub on the 8th January.

The maximum shade temperature recorded was 103° at Temerloh on the 30th June.

Grass minimum thermometers were introduced in September, the lowest reading since that date has been 68° at Raub on the night of the 17th November.

A severe drought for some five weeks existed in Ulu Pahang between the 15th July and the 11th September.

Rainfall for the past ten years with the number of rainy days for each year:

Year.	K. Lipis.		Raub.		Bentong.		Pekan.		Kuantan.		Temerloh.		B. Fraser.	
	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.	Inches.	Rainy days.
1898 ...	105.74	176	*	*	*	*	110.31	167	107.86	179	98.04	134	*	*
1899 ...	108.95	203	85.61	154	*	*	133.63	202	109.53	213	89.48	106	*	*
1900 ...	96.69	160	158.80	153	*	*	110.74	211	82.26	199	140.47	130	*	*
1901 ...	89.88	167	74.02	151	92.27	*	112.06	195	97.39	194	63.45	131	*	*
1902 ...	83.84	204	86.94	158	106.09	161	99.78	189	105.04	177	55.81	103	*	*
1903 ...	97.64	191	70.65	158	61.31	146	134.30	197	92.14	151	62.69	119	*	*
1904 ...	84.42	159	71.72	137	87.28	161	140.81	203	100.49	163	58.67	115	*	*
1905 ...	76.21	164	75.94	166	87.12	188	120.12	188	61.21	146	64.41	129	*	*
1906 ...	97.07	203	86.59	182	93.10	159	186.12	168	181.85	158	82.44	152	*	*
1907 ...	79.14	145	65.07	169	69.82	135	111.38	125	100.68	109	60.84	116	41.10	91+

* Not recorded. + September to December.

W. H. FRY.

State Surgeon, Pahang.

A series of experiments were made to determine the effect of the following factors on the rate of the reaction:

1. The concentration of the reactants.

2. The temperature.

3. The presence of a catalyst.

Concentration of Reactants	Temperature	Rate of Reaction	Effect of Catalyst
0.1 M	25°C	0.01	0
0.2 M	25°C	0.02	0
0.3 M	25°C	0.03	0
0.4 M	25°C	0.04	0
0.5 M	25°C	0.05	0
0.1 M	30°C	0.02	0
0.2 M	30°C	0.04	0
0.3 M	30°C	0.06	0
0.4 M	30°C	0.08	0
0.5 M	30°C	0.10	0
0.1 M	35°C	0.03	0
0.2 M	35°C	0.06	0
0.3 M	35°C	0.09	0
0.4 M	35°C	0.12	0
0.5 M	35°C	0.15	0
0.1 M	25°C	0.01	1
0.2 M	25°C	0.02	1
0.3 M	25°C	0.03	1
0.4 M	25°C	0.04	1
0.5 M	25°C	0.05	1
0.1 M	30°C	0.02	1
0.2 M	30°C	0.04	1
0.3 M	30°C	0.06	1
0.4 M	30°C	0.08	1
0.5 M	30°C	0.10	1
0.1 M	35°C	0.03	1
0.2 M	35°C	0.06	1
0.3 M	35°C	0.09	1
0.4 M	35°C	0.12	1
0.5 M	35°C	0.15	1

W. H. H. H.