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Contributors

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THE ANNUAL REPORT

1,225

OF THE

MEDICAL AND HEALTH DEPARTMENTS, ' KEDAH AND PERLIS.

FOR THE YEAR

1347 A.H.

(20TH JUNE, 1928 TO 8TH JUNE, 1929 A.D.)

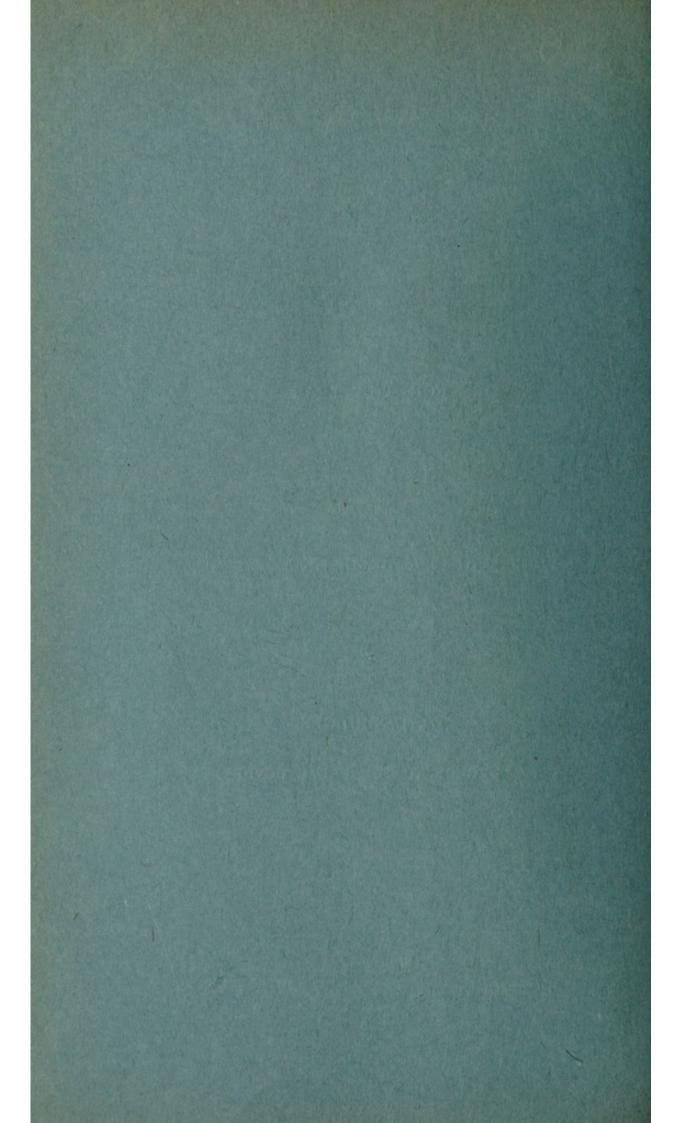
BY

DR. D. BRIDGES,

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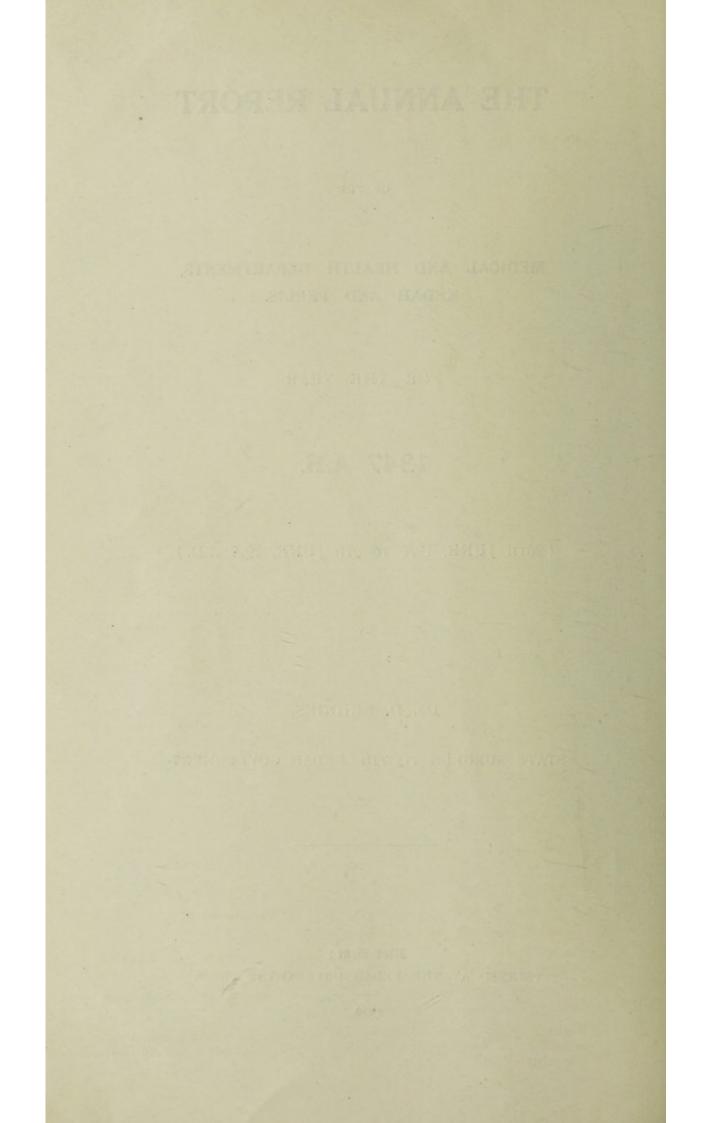
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ANNUAL MEDICAL AND SANITARY REPORT, KEDAH,

For The Year Ending 29th Zulhijjah, 1347 A.H.

(20th June, 1928 to 8th June, 1929 A.D.)

I. ADMINISTRATION.

The principal appointments are :---

The State Surgeon.

1 Health Officer-stationed in Central Kedah.

3 Medical Officers-one in each centre.

1 Lady Medical Officer-stationed at Alor Star.

7 Assistant Surgeons.

2 European Nursing Sisters stationed at Alor Star.

58 Dressers (including 5 Laboratory Assistants).

1 Dispenser Store Keeper.

2 Asiatic Nurses.

7 Midwives.

4 Vaccinators.

4 Health Inspectors (attached to Health Office).

13 Health Inspectors (attached to Sanitary Boards).

Changes in the Staff during the year :--

Dr. D. Bridges, State Surgeon, was on vacation leave from 19-11-28 to 19-5-29 (5-6-47 to 9-12-47). Dr. J. I. Baeza, Health Officer, acted as State Surgeon during Dr. Bridges' leave, and Dr. H. B. Dodds was seconded from the Straits Settlements to act for Dr. J. I. Baeza as Health Officer, Kedah.

Dr. A. S. M. Douglas, Medical Officer, South Kedah, retired on 9-4-29 (28-10-47) on the expiration of his three years' agreement, and Dr. R. Walkingshaw from the Straits Settlements took his place on 4-4-29 (23-10-47).

Dr. J. S. E. Manley, Medical Officer, Central Kedah, proceeded on furlough on 18-5-29 (8-12-47). Dr. R. Walkingshaw was transferred from South Kedah to succeed Dr. Manley in Central Kedah; and Dr. H. B. Dodds, acting Health Officer, was posted to South Kedah as Medical Officer.

Dr. (Miss) C. B. Kibble, Lady Medical Officer, proceeded on furlough on 28-2-29 (18-9-47). She was succeeded by Dr. (Mrs.) K. M. Isaac from the Federated Malay States.

Nursing Sister Miss M. K. O'Shea retired on the expiration of her agreement on 28-7-28 (9-2-47) and was succeeded by Miss R. E. Alcock from the Straits.

Assistant Surgeon M. C. Varghese was appointed on 24-9-47 (6-3-29).

- 1 Probationer Dresser and 2 Dressers Grade III were appointed.
- 4 Asiatic Nurses were appointed and 2 resigned.
- 1 Dresser Probationer resigned, and 1 Dresser, Special Grade, was retired on pension.
- 3 Probationer Health Inspectors were appointed and 1 Probationer was transferred to the clerical service.
 - 1 Health Inspector Grade II was selected, after a competitive examination, to attend the Royal Sanitary Institute course. Singapore, on 18-11-47 (28-4-29).

Results of Examinations.

Two examinations of Dressers and Health Inspectors were held during the year.

	No. Candidates. F	lesults,
Dressers (Moharram: June, 1928)		passed failed
		passed failed
		passed failed
" (Rejab: December, 1928)		failed failed
	11 " III .3	passed failed
Health Inspectors (Moharram)		passed failed
		passed
" (Rejab)	1 ,, II 1 2 Probationers 1	passed passed passed
	Interest of Bernard Party of 1	failed

The candidates for Dressers' Examination, include 18 dressers from Estates, of whom only 3 passed. The percentage of passes was 21.21.

The percentage of passes was poor. This was I think possibly due to changes of Medical Officers, who are supposed to give lectures to Dressers. The lectures, I regret to say were not regularly given. The trouble is that it means overtime work for the Medical Officers who petitioned some time ago for an allowance without success. I am bringing up this question again, as without lectures, it is practically impossible to get good results.

POPULATION.

The estimated population of Kedah according to races is: Malays 279,000, Chinese 66,630, Indians 50,340, Europeans 400, Eurasions 160, Others 9,100. Total 405,630. Appendix A gives details for the last 10 years.

There was an increase in the number of births over the previous year's figures of 2,281, and the birth rate of 37.83 per mille is the highest on record.

1

The death rate of 23.57 per mille against 28.57 is the lowest for 5 years.

Appendices B-H give details of births and deaths, and Appendix I shows the principal causes of death.

The years 1345 and 1346 were very unhealthy, the incidence of malaria fever being very high. This, I think, was general throughout Malaya.

Districts.

For administrative purposes the State is divided into three Districts-namely, North, Central, and South Kedah. The enclosed map shews the boundaries of the various Districts.

North Kedah has an area of 1,549 square miles with an approximate population of 208.180. This area is mostly flat rice (paddy) planting land. The majority of the population is Malay.

Central Kedah has an area of 1,546 square miles with a population of 130,540.

South Kedah has an area of 553 square miles with a population of 66,930.

The last two districts are largely composed of Rubber land and a large proportion of the population is Indian.

Medical Institutions.

NORTH KE	DAH (adjoining	South Si	am).		
in "account. of	Alor Star Langkawi Dispensary, Alor ,, Cha	Star Tov		-	beds [.]
CENTRAL 1	KEDAH.				
, 1000 mil	Sungei Patani Kuala Ketil Baling Dispensary, Sik. "Yen.			 150	beds " "
SOUTH KEI	DAH.				
Hospital, ,, ,,	Kulim Serdang Bandar Bahru	both inner	to be environ	 $260 \\ 80 \\ 40$	beds "

The prisons at Alor Star, Sungei Patani and Kulim, the centres of the respective Districts, have each a sick ward.

Three ambulance dispensaries were working throughout the year, one each in North, Central, and South Kedah.

The District Hospital at Bandar Bharu was closed at the end of Shawal (10th month of Malay year) and an outdoor dispensary was opened in its place. This was done as the Hospital practically served only a few Estates in the District, and it was arranged for the patients from these estates to be sent to Serdang Hospital which is easily managed, the distance being only a few miles.

The whole route is covered once a week by the travelling dispensaries and all the schools and villages on the way are visited and patients attended to.

Buildings.

The Quarantine Camp at Padang Besar was completed.

The Maternity Wards at Alor Star and Sungei Patani were extended. There are now 2nd and 3rd class Maternity Wards in both these centres. Quarters for four clerks were completed and occupied at Alor Star.

Financial.

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REVENUE (Medical). The total Revenue collected during the year was \$92,500.83 against \$113,282.35 in 1346 A.H., a decrease of \$20,781.52.

EXPENDITURE (Medical).	1346.	1347.
Salaries and allowances Other Charges	 \$175,568.23 232,655.07	\$183,837.20 268,019.89
Total	 \$408,223.30	\$451,857.09

REVENUE (Health). \$57.00 against \$48.00 during the previous year. This is in respect of Births and Deaths certificates only.

EXPENDITURE (Health).		1346.	1347.
Salaries and allowances		20,382.59	\$21,356.80*
Other Charges	•••	10,343.71	17,431.99
Total		\$30,726.30	\$38,788.79

* Does not include Clerical Service \$1,821.50

The decrease in the Medical revenue is accounted for by the fact that there was a great fall in the number of admissions of paying patients from Estates. Only 5,323 were admitted against 8,570 during the previous year, decrease of 37.89 per centum.

The decrease in number of Estate patients is on account of the general improvement of health in the State, also largely due to the fact that, last year, most of the Estates discharged all their sickly coolies to reduce expenses when restriction was taken off rubber.

Proportion of Medical and Health Expenditure of the total revenue of the State:-

Deducting the revenue from the expenditure of the Medical Branch, the net expenditure was \$359,356.26, which represents 5.22 per cent of the total revenue of the State.

The net expenditure of the Health Branch represents .59 per cent of the State revenue.

The total expenditure of both branches was 5.81 per cent of the total revenue of Kedah.

This is slight improvement on last year's figure, and shews that the Authorities are realizing the importance of health in the advancement of the State.

Ordinances.

The Sanitary Board Enactment was amended, to give power to the various Sanitary Boards for passing by-laws, subject to the approval of the State Council.

The Health Board Enactment was also amended, new sections being added to define the powers of the Board as regards collection of cess, borrowing and lending out money for the carrying out of health schemes on Estates, and taking legal action when required.

The Calendar.

One of the great drawbacks in this Department is that certain returns asked for by the Home Authorities are made out, naturally, according to the Christian Calendar, and other returns are made out according to the Mohammedan Calendar. The result is, as there is a difference in the number of days in the respective years, there is likely to be a difference of figures. Also the working out of returns from one Calendar to another for the report is troublesome, and mistakes are liable to occur.

There is no reason why all the Medical returns and reports should not be put up according to Christian Calendar, as from a scientific point of view they hardly concern the Kedah Government, and the people whom they do concern follow the Christian Calendar and therefore must find it difficult to follow the reports according to Mohammedan Calendar. This matter has been referred to Government.

II. PUBLIC HEALTH.

The health of the State generally has been very good. The Birth rate of 37.83 per mille is the highest yet recorded, while the Death rate of 23.57 per mille is very appreciably lower than the rate of 1346, (28.57) and is in fact the lowest for 5 years. Thus the natural increase of population is, very nearly, 3 times that of 1346. Appendices B to H give details of births and deaths and Appendix I shows the main causes of deaths in 1347.

Communicable Diseases.

Malaria.

As is usual, "Malaria" and "Fever unspecified" account for the largest portion of the total deaths, but together continue to show a reduction on the two previous years—the figures for 1345, 1346, and 1347, being respectively, 4,820. 4,283, and 3,328.

The commencing rise in the curve of the malarial seasonal incidence was much the same as last year, but whereas the peak occurred at the commencement of May in 1927, the 1928 peak was not reached till July.

The Malarial season was the mildest recorded.

Cholera.

No cases were recorded, although a number of visits were paid by the Health Officer to investigate cases which were under suspicion.

Small Pox.

No cases.

Tropical Typhus.

In 1346, 3 cases were reported for the first time in Kedah. They were two European Assistants on Dublin Estate, South Kedah, and one Malay from Yen, North Kedah.

In 1347, one case (Indian) occurred on the same Estate.

As in the previous cases, the diagnosis was confirmed by serological tests, carried out by the Medical Research Institute, Kuala Lumpur.

Ankylostomiasis.

The deaths registered under this heading still continue to be high—964, as compared with 1,154 in 1346. As stated in the 1346 report, it is difficult to exclude malaria as being a contributory cause of death in many of these cases.

Nearly all European Estates in Kedah are now regarding this disease seriously and it is hoped that fewer and fewer deaths will, in future, be registered under this heading.

Chicken Pox and Measles.

Small outbreaks, of little consequence occurred from time to time, throughout the year. Appendix I gives details of infectious diseases.

Infant Mortality.

This was 127.91 per mille being the lowest recorded, if the year 1342 be excluded, when it reached 126.27. The highest rate is as usual amongst the Tamils—262.96 per 1,000 Tamil births. This is however, a very considerable improvement on previous years, the figure for 1346 being 406.34.

The rate for Chinese is exactly the same as last year, 136.72, while that for Malays is 111.95 against 128.46 for 1346.

Officials.

The following table gives the Health Statistics of Government Officials (other than Subordinates) in Kedah.

	I	European	Native.
The number of officials resident		74	68
Average number resident		51.19	62.43
Total number on sick list		17	22
Total number of days on sick list		149	171
Average daily number on sick list		.42	.48
Percentage of sick to average number resident		33.21	35.24
Average number of days on sick list for each patient		8.77	7.77
Average sick time to each patient		2.91	2.75
Total number invalided		. 1	
Percentage of invalidings to total residents	to their	1.35	
Total deaths		as heredo	Bassieltolter
Percentage of deaths to total residents	in a toro	Anna anna an	
Percentage of deaths to average number residents		H app at-	The providence
Number of cases of sickness contracted away	from		
residence			in this

III. HYGIENE AND SANITATION.

During 1346, there were very few European Estates that were not carrying out active anti-malarial measures, either in the form of permanent drainage work or temporary oiling, or arsenic-spraying measures.

It was during 1346 also that the Kedah Health Board started to function. During the year under review, this Board, apart from concerning itself with estates hospital organisation, has taken an active interest in malaria prevention, and, as a result, malaria prevention work has undoubtedly been increased, and is carried out now by some of the larger native owned estates; and it is hoped that in the near future, improvement will be effected by further extending preventive measures, to all estate property throughout the State. Pari passu with this, there has been also noticeable improvement in estate sanitation.

It is regrettable that the same cannot be said of most of the areas under the control of Sanitary Boards. In the towns of Sungei Patani, Alor Star, and Kulim, and also at the frontier post, Bukit Kayu Hitam, monthly larval surveys are made. These have greatly assisted in controlling the mosquito problem.

In order that this work should not be interrupted, a larva catcher was appointed as from 1st Moharram, 1347.

The Anti-malarial Board held two meetings during the year.

Vaccinations.

KRPL

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The number of vaccinations done during the year was as follows :----

District.

District.			N). vaccinat	ea.
Kota Star Kubang Pasu Padang Trap Langkawi	 :: } :: }	North Kedah	i bagad a	8,847	
Kuala Muda Yen Baling Sik	 ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Central Kedah	a and ha a a a a a a a a a a a a a a a a a a	3,336	
Kulim Bandar Bahru	 :: }	South Kedah		2,504	
		Tota	1 TELE ADDIT	14,687	

9,307 of these were done by Dressers in Hospitals and Dispensaries, and the rest by vaccinators. The cost per head of vaccinations done by vaccinators was 21 cents.

Schools.

40 schools were visited by the Health Staff. This represents a total of 3,725 pupils of which 3,008 were examined. 31 schools were regularly visited by the Travelling Dispensaries.

The prevailing conditions found are shewn in appendix K.

Visits to Estates.

Both Native and European owned estates were visited by the Health Officer and Health Office Staff—377 visits in all were paid.

The usual estate figures are shown in appendices L to R.

Quarantine Inspection at Padang Besar.

As a result of a cholera outbreak, Bangkok, Siam, was declared suspected on the 12-7-47.

As the number of cases exceeded 25 per week, it was necessary to declare Bangkok infected as from 23-11-47.

Passengers entering Kedah were required to sign undertakings to report themselves to the Health Authority of the District to which they were travelling.

Exceptions were made in the case of passengers holding certificates of recent inoculation.

It was found that a very large percentage of passengers of all classes failed to carry out the conditions of their undertakings, and so it was necessary to enforce a deposit system of \$25 per head on 26-12-47 (5-6-29).

The numbers of passengers examined at the railway frontier station for the year were as follows:---

		Tota		41,562
2nd ,, 3rd ,,			::	4,807 34,170
1st Class		 		2,585

The Quarantine Camp at Padang Besar was completed during the year.

IV. MATERNITY AND CHILD WELFARE.

Dr. (Miss) C. B. Kibble, Lady Medical Officer, proceeded on furlough on 28-2-29 (18-9-47). Dr. (Mrs.) K. M. Isaac from the F. M. S. succeeded her.

Dr. (Mrs.) K. M. Isaac unfortunately was unable to do much work, as she suffered from continual attacks of malaria which she contracted in Selangor.

The following figures shew the work done by this department during the year.

1. Maternity Cases (Indoor)-Hospital, Alor Star.

			Ca	ases	Deaths.
Normal labour				63	
Difficult labour				14	4
Still birth				1	
Premature Births				9	6
Abortion				10	
Puerperal Sapraemia		and the second second		9	2 2
Other affections connecte	d with pre	gnancy		23	2
		Tot	al 1	29	14
to builth during the years		100			
Maternity Cases (Outdoo	or).				
Normal labour				93	
Premature births				4	
Still birth				3	
Abortion				1	
			-	-	

3. Out-patient Work (other than Maternity cases).

2.

The following table shows the number of out-patients treated by Nationality :---

Total .. 101

			Europeans	Malays	Chinese	Indians	Others	Total
Hospital, Alor			14	217	154 .	143	24	552
Town Dispensa	ry, A. Sta	r		105	444	215	25	789
Kodiang				3				3
Kuala Nerang				14	6	13		33
Pendang				69	13			82
Yen				61	1	1	23	86
Lepai				26				26
Fokai				11				11
Changloon				3		1		4
	Total		14	509	618	373	72 -	1,586

Injections for Puru numbered 58.

There is a very marked increase in the numbers not only of cases attending outdoor treatment but also maternity cases, both admitted to Hospital and attended to in their own houses.

The people within a few miles radius of the Hospital nearly always call for the services of our midwives and bring their children for treatment. This work will be gradually extended further afield, but the process is bound to be slow, as the native does not like changing his old customs. The main obstacle to this work is the continual change of Lady Medical Officers and the difficulty of getting a suitable officer.

The Girls' Schools at Alor Star, Sebrang Perak, Yen and Kota Kuala Muda were visited from time to time.

V. HOSPITALS AND DISPENSARIES.

The statistics of patients treated in Kedah Hospitals and Prison Sick Wards during the past 5 years are as follows:—

Year		No. treated	Deaths	Percentage of deaths
1343		16,659	1.246	7.47
1344		21,336	1,503	7.04
1345		21,472	1,841	8.57
1346		24,432	1,987	8.13
1347		19,121	1,506	7.87

Excluding 389 deaths which occurred within 48 hours of admission, the death rate for 1347 was 5.84. The percentage of deaths within 48 hours of admission, to total deaths, was 25.83.

The number of patients treated was less than the previous 3 years. This is accounted for probably by the general improvement in health during the year.

The percentage of deaths was also less than the previous two years, which were bad malarial years.

Also the number of deaths which occurred within 48 hours of admission was much less, 389 against 608 in 1346. This points to the recognition of the importance of early treatment.

Patients from Estates.

5,323 estate coolies were admitted as indoor patients. There were 642 deaths, a percentage of 12.06. The previous year there were 8,650 coolies admitted from estates with 993 deaths, a percentage of 11.36. During the previous year 32.43 per cent of cases admitted died within 48 hours. During the year under review 31.79 per cent admitted, died within 48 hours.

The following figures give the number of Indian coolies admitted to Hospital during the last 5 years, and shew the proportions of estate coolies to paupers.

		1343	1344	1345	1346	1347
Estate coolies		 6,852	9,079	8,880	8,650	5,323
Paupers		 4,300	5,008	5,407	8,153	5,160
	Total	 11,152	14,087	14,287	16,803	10,483

The Indian population on Estates in 1346 was 44,123 in 1347 it was 35,757 but the percentage admitted to Government Hospitals in 1346 was 19.6 whereas in 1346 the percentage was 14.6, shewing a marked improvement in the health of the Estate Indian population.

Admissions and Deaths.

The number treated and the number of deaths in each hospital during 1347 A.H. were as follows :---

		Hospital			No. treated	Deaths	Percentage of deaths
1.	Alor Star				5,253	293	5.57
2.	Sungei Patani				6,203	561	9.04
3.	Kulim				3,425	312	9.10
4.	Kuala Ketil				1,624	181	11.08
5.	Serdang				1,161	106	9-13
6.	Bandar Bahru				392	23	5.86
7.	Baling				437	10	2.28
8.	Langkawi				357	16	4.48
	Priso	N SICK WARI	08.	ia. for r	unterm Distanticity (1748)	n hoold 30	
	Alor Star		·		186	2	1.07
	Sungei Patani				49	2	4.08
	Kulim				34		
			Total		19,121	1,504	7.87

Nos. 2, 3, 4 and 5 are largely occupied by Estate coolies. Nos. 6, 7 and 8 are too small to take into account. No. 1 has only a few Estate coolies; therefore these figures go to shew that the bad health of the country comes from Estates.

..

	The	nationalities	of	Indoor	P	atients :	Contra .	
Europeans								29
Eurasians								13
Chinese								5,556
Indians								12,075
Javanese								14
Malays								1,265
Japanese							• •	3
Others			• •		• •		• •	166
						Total		19,121

The average daily number of indoor patients in Kedah Hospitals for the past 5 years was:-

1343	a subside	tale 20 ore	a	1000000	830.93
1344	1	alt. it of	hibion.bo.Ju	an and Sala	975.23
1345	(designed)	a si ances	18	·	948.67
1346	and second	media wird	mhan		1,002.94
1347				artt. entrat	942.38

	1. 11. 11. 10.	1345			1346			1347		
Diseases	Cases	Deaths	Deaths %	Cases	Deaths	Deaths %	Cases	Deaths	Deaths %	
Malaria Dysentery, amœbic Dysentery, bacillary Venereal Diseases Respiratory Diseases (other than Pulm.	$559 \\ 485$	$544 \\ 206 \\ 116 \\ 14$	$6.81 \\ 26.74 \\ 23.71 \\ 1.74$	$10,016 \\ 431 \\ 465 \\ 733$	$673 \\ 117 \\ 147 \\ 2$	$6.72 \\ 27.15 \\ 31.61 \\ .27$	6,289 330 236 917	484 59 76 16	7.69 17.87 32.20 1.74	
Tuber:) Pulmonary Tuber: Ankylostomiasis Ulcers Wounds & Injuries Other diseases	$251 \\ 1,457 \\ 1,355 \\ 976 \\ 1,225$	$242 \\ 136 \\ 125 \\ 9 \\ 23 \\ 426$	$20.75 \\ 54.13 \\ 8.57 \\ .66 \\ 2.35 \\ 6.83$	$\substack{1,206\\255\\2,246\\1,587\\920\\6,573}$	$279 \\ 114 \\ 188 \\ 7 \\ 8 \\ 452 $	$23.13 \\ 44.71 \\ 8.37 \\ .44 \\ .87 \\ 6.82$	$\begin{array}{c} 1,098\\ 252\\ 1,916\\ 1,419\\ 1,542\\ 5,122 \end{array}$	$249 \\ 108 \\ 138 \\ 2 \\ 29 \\ 345$	22.68 42.85 7.20 .14 1.88 6.73	
Total	21,472	1,841	8.57	24,432	1,987	8.13	19,121	1,506	· 7·87	

Prevailing Diseases.

Malaria.

The number of blood films examined for malaria in the various hospitals was as follows:---

Hosp	oital	в. т.	М, Т.	Quartan	Mixed Infection	Filaria	Negative	Total
Alor Star		 697	282	32	9		4,299	5,319
Sungei Patani		 1,296	606	77 •	154	1	3,751	5,885
Kulim		 366	730	17	37		3,612	4,762
Kuala Ketil		 247	65	8			601	921
Serdang		 220	168	18	itomobi	m?	691	1,097
Bandar Bharu		 46	31	- 1	1		102	181
Baling		 17	64				162	243
Langkawi		 71	52				166	289
	Total	 2,960	1,998	153	201	1	13,384	18,697

There was a decrease of 3.727 cases in the total treated for malaria when compared with the previous year's figures but the percentage of deaths was higher,— 7.69 per cent as against 6.72 in 1346. This is in keeping with the percentage of infections with dangerous types of malaria.

In 1346, 36.4 per cent of positive films were of dangerous types (malignant, quartan, mixed). In 1347, 44.2 per cent of positive films were of dangerous type. These figures may partly be due to more expert diagnosis, as the Laboratory Assistants have had a special course of training, but undoubtly there have been more serious types of malaria admitted during the year.

Year			102 11 11 1	Cases treated	Deaths	Deaths %
1343	Amœbic			427	88	20.60
	Bacillary			615	123	20-00
1344	Amœbic			466	97	20.81
	Bacillary			731	155	21.20
1345	Amœbic			759	206	26.74
	Bacillary	· · · · ·	alester	485	116	23.71
1346	Amœbic			431	117	27.15
	Bacillary			465	147	31.61
1347	Amœbie			330	59	17.87
	Bacillary			236	76	32.20

Dysentery.

The percentage of deaths from dysentery is still very high though the number of cases admitted is less.

Respiratory Diseases.

Of the total of 1,098 cases and 249 deaths, pneumonia accounted for 361 cases and 160 deaths.

Comparative figures for Pneumonia for the past 5 years are as follows :---

Year		Cases	Deaths	Deaths %
1343	din	408	150	38-28
1344	1002 300 0	362	149	41.16
1345		492	214	43-49
1346		586	234	39.93
1347		361	160	44.32

Many of these cases are sequilae of some previous sickness, such as malaria and the patient is usually in a weak state of health which probably accounts for the high death rate.

Venereal Diseases.

				Cases.	Deaths.
Gonorrhoea an	d Gonor	rhoeal Sequiae		 289	::
Syphilis and Sy	yphilitic	Sequiae		 432	16
Bubo				 76	
Soft Chancre		Laster and G Las		 74	
			Total	 917	16
				And the second s	and the second se

2,577 injections of Neo-Salvarsan were given in the treatment of syphilis.

Yaws (Puru).

The number of injections given during the past 5 years for this disease was ----

IS.

Year.	25			I	njection
1343	7.			 	5,995
1344	2.			 	7,723
1345				 	8,653
1346				 • •	6,689
1347				 	9,641

It is difficult to make the people realize that one injection is not a cure, and many cases relapse. The head men and school teachers have been ordered to see that cases come for treatment, but they are very diffident about it and until there is an order making treatment compulsory the disease will always be prevalent.

Pulmonary Tuberculosis.

The cases and deaths for the past 5 years are as follows :----

			Cases.	Deaths.
1343	10	 	 225	113
1344		 	 287	150
1345		 	 251	136
1346		 	 255	114
1347		 	 252	108

13 cases were treated in the Phthisis wards attached to the Hospital at Langkawi Island. Two of the cases were discharged as cured. Three cases absconded before they were fit for discharge; but they had greatly improved under treatment. Three cases who were admitted in an advanced stage of the disease died.

There is very little phthisis among the rural population who live in Attap houses and lead an open air life; nearly all the cases occur in those living in towns.

At Langkawi Island where there are special huts and a ward the results are very encouraging; but it is difficult to persuade the patient to stop here, (though a cure has been effected in a few cases of early infection that have been persuaded to stay on the Island long enough) though everything is done to make him comfortable.

The treatment consists of nourishing food, malt and codliver oil, regular prescribed exercises and sun bath. Patients are also encouraged to wear as little clothes as possible when the weather is warm, and spend all their time out of doors.

Ankylostomiasis.

1,916 cases and 138 deaths, shew a decrease of 330 cases and 50 deaths from the previous year's figures.

Many of the larger European managed Estates are paying attention to the preventions and regular treatment of ankylostomiasis, and the next few years should shew a marked reduction in cases.

Pregnancy and its Diseases.

332 cases connected with pregnancy were treated in the hospitals with 51 deaths.

In the whole State there were 247 deaths recorded under this heading, giving a percentage of 1.61 to total births. The number of still births in the State amounted to 964. These are not counted as births.

Early marriage and the ignorant native midwife are nearly always the causes of deaths. It will be a great many years before these causes can be removed.

Mental Diseases.

172 Kedah patients were under treatment in Tanjong Rambutan Mental Hospital at the beginning of the year; 59 were admitted, 22 were discharged as cured, 12 absconded, 16 died and the number remaining at the end of the year was 181.

Infectious Diseases treated in Hospitals.

				Cases.	Deaths.
Chicken-pox				25	and a state of the
Dengue				7	134
Enteric Fever				6	8
Erysipelas				10	2
Influenza				76	
Measles	· · ·			43	per mailant
Mumps		o Lint		9	ATT
Septicaemia	1	school, seather	brn	3	and an and the
Pyaemia		and and a set of the set of the	direct here is	7	3
Phagedoena		South Wild Son	the dires	crosloumos4 30	ting produced

to by the Medical Officers at the	1010	Remained	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining
Pulau Jerejak and Jelutong		69	44	113				14	99
Pangkor Laut (Malays only)		9	1	10				1	9
Kedah Hospitals		5	54	59		45	4	1	9

Cases do not undergo regular treatment in Kedah Hospitals but are collected and sent off in batches to the various leper asylums.

Anti-rabic Treatment.

102 cases were admitted for dog bite. Of these 59 were confirmed or suspected as having been bitten by rabid dogs, and received anti-rabic serum injections.

Cases treated with anti rabic vaccine, grouped according to domicile and nationality :--

Course	Natio	nality	Kedah	Perlis	Total
Complete Course	Europeans Malays Chinese Indians Others		 7 9 14 19 2		7 15 16 19 2
		Total	 51	8	59

Results of Treatment.

Position of bite	I	п	ш	IV	v	VI	Total	No. of deaths during or after treatment
Limbs and trunk unclothed	24	8			9	1	42	Nil
Limbs and trunk through clothing	9	5				3	17	Nil
Total	33	13			9	4	59	Nil

- I. Cases bitten by animals proved rabid by Laboratory examination.
- II. Cases bitten by animals certified rabid by Medical or Veterinary Officerno laboratory tests.
- III. Cases bitten by animals almost certainly rabid according to history-no laboratory tests.
- IV. Cases with recent abrasions contaminated with saliva of proved rabid animals.
- V. Cases bitten by animals which were untraceable.
- VI. Cases having abrasions contaminated with saliva in which laboratory tests were negative.

Two of the cases from Perlis were reported to have died about 6 weeks after treatment. On investigation the deaths proved to be due to other causes than rabies.

Surgical Operations.

379 operations under general anaesthetics were performed. All these, excepting one by the Assistant Surgeon at Langkawi, were done by the Medical Officers at the three Central Hospitals.

Minor operations numbered 621.

There has been an increase in the number of operations. This is accounted for, I think, by the fact that one of the Medical Officers during the year, held the degree of F.R.C.S. and his enthusiasm accounted for the extra work done.

Post Mortems.

293 post mortems were done during the year at various Hospitals. Of these 137 were medico-legal cases.

Out-Door Dispensaries.

There has been a decrease in the number of cases attending the various dispensaries, as the following figures shew.

The motor dispensaries continue to do good work.

				1346.	1347.
New Cases		Color Theorem		40,051	34,770
Repetitions	0.0	NO TONTON		3,587	1,952
		Tota	۱	43,638	36,722

Patients treated at the outdoor departments of the various hospitals amounted to 20,427 new cases and 4,411 repetitions.

Including patients treated at Dispensaries the total figures are: new cases 55,197 and repetitions 6,363.

Appendix S gives details of patients treated in hospitals in 1347.

VI. PRISONS.

Each of the three prisons, at Alor Star, Sungei Patani and Kulim, has a sick ward.

The Central Prison, Alor Star has a whole time dresser. Others are daily attended by a dresser from the hospital. The Medical Officer in each place pays routine daily visits.

The number of patients treated in these sick wards, during the last 5 years was:---

Yea	r	No. treated	Deaths	Percentage of deaths
343		317	17	5.36
344		249	6	2.40
345		239	12	5.02
346		225	13	5.77
347		269	4	1.49

Prevailing Diseases (1347 A. H.)

		Total treated	Deaths	Percentage of deaths
Malaria		39	1	2:56
Dysentery Amœbic		6		
" Bacillary		15		
Other Bowel diseases		37		She Cased In
Venereal diseases		11		The second second
Respiratory diseases (other than	Pulm. Tuber.)	. 50	2	4-00
ulmonary Tuberculosis		a dati 14 dami	the set heath	Canada
Ankylostomiasis		19	1	5.26
Other diseases		88		1 415W
	Total	269	1011 04 00	1.49

The daily average of inpatients for the last three years was :----

to estimated at 405,680	13	15	13	16	1347	
	Prisoners	Patients	Prisoners	Patients	Prisoners	Patients
Alor Star	330	7.31	295	7.81	255.00	7.00
Sungei Patani	50	2.25	47	1.10	59-56	-13
Kulim	29	1.30	32	1.07	34-31	.79
Total	409	10.86	374	9.98	348-87	7.92

Out-Door Attendances.

The dispensary attendances numbered 7,348 and 5,629 repetitions. These figures include the administration of quinine to all prisoners during malarial seasons.

LIST OF APPENDICES.

Table of Statistics.

Α. The population of Kedah for the year 1347 A.H.

- Population according to races with deaths and death rate, 1347 A.H. Infantile death rate for the last 10 years. **B**.
- C.
- Distribution of deaths according to sex and nationality, 1347 A.H. D.
- E. Births according to sex and nationality, 1347 A.H.
- F. Still births according to sex and nationality, 1347 A.H.
- Infantile death rate per thousand births, amongst the principal nationa-lities, 1347 A.H. G.
- Incidence of deaths according to ages and nationalities, 1347 A.H. H.
- Table showing principal causes of deaths (according to Register of deaths), I. 1347 A.H.
- Cases of the infectious diseases, 1347 A.H.
- K. School figures, 1347 A.H.

Estate Figures.

- L.
- M.
- Population by nationalities of European holdings, 1347 A.H. Population by nationalities of Native holdings, 1347 A.H. Deaths by nationalities on estates of European holdings, 1347 A.H. N.
- 0. Total labourers and dependents admitted to Government Hospitals from European holdings, with deaths, 1347 A.H.
- Deaths by nationalities on estates of Native holdings, 1347 A.H. **P**.
- Total labourers and dependents admitted to Government Hospitals from Q. Native holdings with deaths, 1347 A.H.
- Estates admission to Government Hospitals, with deaths, by diseases, according to Districts, 1347 A.H. R.

Hospital Figures.

- Indoor patients treated in Kedah Hospitals. S.
- Rainfall return, August 1928-May 1929. T.
- U.
- Meteorological return, Alor Star, August 1928—May 1929. Meteorological return, Sungei Patani, August 1928—May 1929. Meteorological return, Kulim, August 1928—May 1929. Meteorological return, Langkawi, August 1928—May 1929. V.
- W.
- Χ.

Diagrams and Charts.

- Percentage of deaths from certain diseases to all deaths in the State. 1.
- Percentage of cases of certain diseases to total treated in hospitals. 2.
- Percentage of deaths of certain diseases to total deaths in hospitals.
 Chart shewing prevailing diseases among Estate admissions to hospitals, with deaths.
- 5. Graph shewing total Estates Labourers and dependents admitted to Kedah Government hospitals with deaths, by months.
- 6. Map of Kedah and Perlis.

Vital Statistics.

ŝ	6	A	,	,	
		-	6		

The population of Kedah for the year 1347 A.H. is estimated at 405,630 against 399,864 for 1346 A.H.

	irth-rate er mille	De	aths	Death-rate per mille	
					Census figure
	27.25		6,299	21.72	
- 30	30.34	1	1,548	38.49	
29	29.51		8,557	26.14	
29	29.99	1	8,718	25.75	Census figure
-30	30.30	1	8.656	25.40	and the second second
27	27.73		7.834	23.41	
31	31.70	meen h	7.877	22.41	
29	29.69	a aitin i	8.647	23.02	
29	29.52		9,910	25.75	
34	34.40	10	0.723	26.92	
	32.68		1.424	28.57	
	37.83		9.561	23.57	

The following is a comparative table for the last 11 years :---

"B"

Population according to races with deaths and death-rate for the year, 1347.

Races			Approximate Population	Deaths	Death-rate per mille	
European				400	ALL ALLAN	All and the daily
Eurasian				160		
Malays				279,000	5,427	19.45
Chinese				66,630	1,920	28.80
Indians	noltour			50,340	2,008	39.89
Others	A		· · · ·	9,100	206	22.61
		Total		405,630	9,561	23.57

"C"

Infantile death rate for the last 9 years :---

Year.			Deaths.	Rate per mille.
1338		Manager 1	1,312	136.76
1339			1,980	194.98
1340			1,704	165.35
1341			1.530	161.73
1342			1,401	126.27
1343	· · /	Catholical man	1,689	151.45
1344	alesignbar a	Milliand . Subou	1,924	169.24
1345		main the second	2,248	163.64
1346		adiroom a	2,073	158.66
1347			1.963	127.91

	Nationa	lity		Male	Female	Total
European				0	0	0
Eurasian				0	0	0
Malays			A 185	2,797	2,630	5,427
Chinese	Se 2.	10	18	1,456	464	1,920
5. Indians				1,101	878	1,979
N. Indians		18		22	7	29
Others	12 01	10.02		98	108	206
			6 19h		and and	and why
			124	11 11	The second	1 100 1 100 100 100 100 100 100 100 100
		Total		5.474	4,087	9,561

Distribution of deaths according to sex and nationality, for the year, 1347.

"E"

Births according to sex and nationality for the year, 1347.

	Nationality		Nationality Male		Female	Total
European Eurasian Malays Chinese S. Indians N. Indians Others				$1\\4\\5,744\\1,351\\697\\18\\159$	$\begin{array}{c}1\\1\\5,466\\1,143\\605\\11\\146\end{array}$	2 5 11,210 2,494 1,302 29 305
		Tot	al	7,974	7,373	15,347

"F"

Still Births according to sex and nationality for the year, 1347.

	Nation	ality	Male	Female	Total
European Eurasian Malays Chinese S. Indians N. Indians Others		···· ··· ··· ···	 	$\begin{array}{c} \dots \\ 321 \\ 44 \\ 70 \\ 1 \\ 4\end{array}$	$ \\ 702 \\ 106 \\ 140 \\ 1 \\ 15$
		Total	 524	440	964

" G "

The Infantile death rate per thousand births, amongst the principal nationalities was :---

Malays	Chinese	Indians
11.95	136.72	262.96

	-	-		5	
•	1	н		٢.	۰.
	-				

Ages		European	Eurasian	Malays	Chinese	S. Indian	N. Indian	Others	Total	
1 year and under	D.		0	0	1,255	341	347	3	17	1,963
5 years and under			0	ŏ	919	154	298	2	25	1,398
15 do			ŏ	ŏ	453	86	149	2	22	712
25 do			0	0	406	181	247	4	16	854
35 do .			0	0	503	280	495	10	21	1,309
5 do .			0	0	391	322	207	5	30	955
i5 do			0	0	335	280	123	2	26	766
5 do			0	0	424	184	61	1	26	696
75 do			0	0	320	66	25	0	17	428
Over 75 years			0	0	421	26	27	0	6	480
	Total		õ	0	5,427	1,920	1,979	29	206	9,561

Incidence of deaths according to ages and nationality for the year, 1347.

"I"

Table showing principal causes of deaths (according to register of deaths) for the year, 1347.

Deaths from Preventable Diseases :---

Fever unspecifi	ed	81			2,754
Malaria		R01	· · · ·		574
Tuberculosis					251
Dysentery Amo	ebic	1945.	····	m	101
Dysentery Bacil	llary				124
Ankylostomiasis	3				964
Conditions conn	ected w	ith child birth			247
Syphilis					30
Pneumonia			100 00 B	Tip and the	199
Septicaemia					7
Other Infective	Disease	s		196	13
Yaws (Puru)			· · · ·		8

General Diseases.

5,272

Death from :---

	Digestive system				168	
	Respiratory System	15	··· Intol		234	
	Nervous System				81	
	Circulatory System				43	
	Tumours	••••			26	
	Infantile Convulsion				2,034	
4,289	Old age, ill defined cond	litions, accide	ent etc.*	ile, des	1,703	
9,561			Total		9,561	

19 "J"

Cases of Infectious Diseases, for the year, 1347.

Reported to Health Office during 1347 (3-7-28 to 6-6-29).

Chicken-Pox		 1 2	49	
Diphtheria		 	1	
Measles		 	87	
German Measles		 	1	
Tropical Typhus	·	 	1	
Mumps		 	1	
Typhoid Fever		 	10	
Para Typhoid	· ·	 	2	
		То	tal 152	

" K "

School figures, 1347 A.H.

1.	Total in Register	 	 3,725
2.	Total inspected	 	 3,008

No.		Diseases		Cases	Percentage
1	Spleen		 	98	3.22
2	Anæmia		 	152	5.05
3	Not Vaccinated		 	474	15.76
4	Eye Diseases		 	7	.23
5	Ear Diseases		 	6	.19
6	Scabies		 	27	-89
7	Skin Diseases		 	56	1.86
8	Yaws		 	17	-56

Total schools visited by Health Officer	atth deather	 1	
Total schools visited by S. H. Inspector	antioximba la	 34	
Total schools visited by H. Inspectors	edited h	 5	
	Total	 40	

"L"

Estate figures.

Population by nationalities and sex of European holdings, 1347.

No.	Nationalities			Labourers		Dependents		Infants	
110.	Matonantes		Male	Female	Adult	Children	intanto		
1	Malays			1,824	1,363	388	714	144	
$\frac{1}{2}$	Indians			15,687	10,220	2,623	5,974	1,253	
	Chinese			1,300	156	94	63	75	
4	Javanese			185	64	51	26	17	
5 ni sir	Others		- 10	196	18	38	37 Total Indor	6	
		·Total		19,192	11,821	3,194	6,814	1,495	

			Labo	Labourers		Dependents			
No.	Natio	Nationalities		Male	Female	Adult	Children	Infants	
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array} $	Malays Indians Chinese Javanese Others		 	3,638 1,524 2,824 172 27	2,735 499 128 12 3	214 127 84 35	$987 \\ 290 \\ 133 \\ 5 \\ 1$	127 49 16 1	
.,	ouers	Total		8,185	3,377	460	1,416	 193	

Population by nationalities and sex of native holdings, 1347

Total visits to estates by Health Officer and Staff for 1347-377 visits.

" N "

Deaths by nationalities on Estates of European holdings, 1347.

	100,8			Deper	ndents	
No.	Natio	onalities	Labourers	Adult	Children	Infants
$\begin{array}{c}1\\2\\3\end{array}$	Malays Indians Chinese		5 81 	4 3 3	4 1 1	5 2 2
		Total	86	10	6	9

" 0 "

Total labourers and dependents admitted to Government Hospitals from European holdings, with deaths for 1347.

1.	Total	admission	State of the second		a do Bantina	RIGOSIS	5,162
2.	Total	deaths	e lors	A. MAR	H vd holioir	- Month	626

"P"

Deaths by nationalities on Estates of Native holdings, 1347.

No.	Nationalities		Labourers	Deper	; Infants	
	Matonanties	madov(n)	Lanourers	Adult	Children	, Infants
$\frac{1}{2}$	Malays Indians Chinese	··· ···	. 3	1 2 		1
	Tota	u	3	3	2	1

"Q"

Total labourers and dependents admitted to Government Hospitals from native holdings with deaths for 1347.

1.	Total	admissions	 	161
2.	Total	deaths	 	16

Estate admission to Government Hospitals with deaths, by diseases, according to District, for 1347.

A. D. A. D. A. 3 8 4 3 8 4 35 16 6 70 38 15 3 3 34 24 4 70 38 15 3 3 34 24 4 14 4 44 5 4	. D. 31 31	D. 38 38 38 38 38 38 38 38 38 38 38 38 38
8 26 53 2 16 6 1 15 3 1 12 3 3 3 3		
8 36 53 2 16 6 1 6 1 12 3 3 3		
26 53 2 16 6 15 3 3 1 12 3 3 3 3 3 3	31 5 5 10 8	
16 6 15 3 3 4 1 12	- <u>10</u> x 5	
15 3 3 3 4 3 1 12	8 0 1	112
4 . 4 . 1 1 3 . 3 . 4 .	10	
1 12 	-	
· · ·	•	2 29
10	:	2 6
and in a second	ind a	2 28
211 62 85 5 239	55 2	218 733

"B"

APPENDIX-S.

ANNUAL RETURN OF INDOOR PATIENTS, TREATED IN HOSPITALS IN KEDAH, DURING THE YEAR, 1347 A.H.

Dise	ases	1	Remained	Admitted	Died	Total	Remaining	Remark
INFECTIVE	Dieprepe					127 1 -1	4 110	
INFECTIVE	DISEASES.						the state	
mœbiasis				1	1	1		
hicken-pox			1	24		25	1	
engue			1	6		7	2	
Piphtheria			1	200	1	2 220		
ysentery Amœl ysentery Bacill			21 12	309 224	59 76	330 236	21 8	
interic Fever	1		12	5	3	200	1 - 1 1 - 20 - 20	
rysipelas				10	2	10		
onorrhœa			14	216		230	16	
onorrhœal Rhe			4	41		45	2	
onorrhœal Conj			1	8		9	1	
onorrheal Orch				3		3		
onorrheal Epic	limitis .	••		2		2		
nfluenza				76		76	15	
eprosy			5	54	1	59	9	
lalaria :—		-			15		20	
i) Benign tertia	m .		194	2,683	136	2.877	69	
b) Quartan			12	120	13	132	3	
c) Malignant ter			190	2,079	254	2,269	- 99	
 Mixed infect 			23	113	31	136		
) Type undiag			32	496	19	528	20	
) Malarial cach			32	311	= 30	343	. 20	
r) Blackwater f leasles		••		4	1	4		
lumps			1	43		43	4	
hagedoena		1		8		9 4		
neumonia			20	361	160	381	5	
yæmia				7	3	7	1	
yrexia of uncer	tain origin .			27		27		
Rheumatism			1	22	1	23	2.	
epticæmia				3		3	102	
yphilis :		10			8		125 14	
a) Primary			4	42		46	7	
b) Secondary			10	344	4	354	7 18	
) Inherited			10	18	4	19	3	
d) Tertiary			7	52	8	59	3	
etanus				6	4	6	1 I	
uberculosis :				Contractory of				
a) Connect		-		13	1 1.13	N C	745	
a) General b) Phthisis		••	20			2		
ubercular Glane	la Mool-	••	30	222 8	108	252	26	
Hip				0		8	2	
	onitia			î		1		
Glane	1			3		3		
Lary				1		1		
soas Abscess				1	1	1	2 >	
Vhooping Cough	1.			3		3		
aws ther Infective I	Diseases .		1	35 2		36 3	2	
INTOXIC	ATIONS.			2.4	3. 1			
lcoholism				10	A de la	a same	Bospitzle	
forphinism				16		16		
ther Intoxicatio	ma			82		8		
anter an anter an anter an				h		2		

.

Diseas	es		Remained	Admitted	Died	Total	Remaining	Remarks
GENERAL DI	EFASPS .						Lana Martin	
	onaono.			1				
			2	42	2	44	1	
			4	53	5	57	7	
				5		5		
				2		2		
				1	1	1		
				1	1	1		
				22	18	22		
	1 1			2		2		
				9	3	9	3	
ther General Dise	ases			73	25	73	6	
ERTAIN MORBID INCIDENT TO PARTS	VARIOUS	ONS					1 any 10.0	
					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
lalformations .				2		2		
ew Growth, Non-		1	1	13	2	14		
	gnant			29	9	29	3	
				10		10		
ther Morbid Cond	litions			8	7	8		
			1					
DISEASES OF TH. SYSTE		IS	1-		1		- Stranger	
erves :			1					
and the second			1. 1.					
			2	14		16	a second second	
Neuritis peripher	al			3		3		
Multiple neuritis				1		1		
Other Diseases of	the Nerve	·s		11		11	A horney a	
pinal Cord and M	[embranes	:						
				3		3	1	
Progressive mus		phy		1		1		
Locomotor ataxia			1	2		3	1	
Miningeal hæmo	orrhage			1		1		
Other Diseases of		al					is wait and	
Cord and Men	branes							
							1	
Lagrande	Sec. 2. 1.						and the second sec	
and Membra	nes :							
and the second second second							The second second	
				2	1	22		
				2	1			
				1		17		
Abscess of brain				7	6	7		
Hydrocephalus .				1		1		
Other Diseases of		d		6.0		*** 2	1	
Membranes			1	3	1.	- 4	and the second	
			111 2				and and the second s	
Die 1			1.2				1	
lervous Disorders	Canana Con						and the second	
					- 1		The Manufacture	
				4	1	4 5	2	
				5	1.4.	21	3	
			2	19		21	And the second second	
Disseminated sel	erosis		···· ,	1		1		
Chorea			1.		6	11		
			1	10	6 1	6		
	9	•••		6		44		
Nomelano				44 5				
TT				8	1	8		

Die	eases	India	Remained	Admitted	Died	Total	Remaining	Remarks
Maxmar	DISEASES.							
MENTAL	DISEASES.					- Reeas	Service State	
diocy				1		1		
mbecility				29		$\frac{1}{30}$		
lania			1		1			
Ielancholia				8		8 1		
ligrane				3		3		
elusional insa	nity			1				
ræcox				3		3		
sychosis				7	9	0 7		
ementia			,			1		
allucination			1	9		9		
bservation								
DISEASES	OF THE EYE						and and	
onjunctivitis			2	56		58	- 4	
rachoma			~	5		5		
Ceratitis				6		6	1	
lcer of Cornes				46		47	3	
pacity of Corr				2		2		
halazion				ĩ		ĩ		
ritis				10		10	how the mar	Almar Meret
laucoma				1		1		
ptic atrophy				2	1	2		
ataract			6	4		10	6	COLUMN AND A
lindness			7			7	7	
Blepharitis				3		3		
Itropion				2		2		
anophthalmiti				4		4		
mblyopia and				1		1		alternation
Other Eye Dise	ases		2	15	2	17		Newsyltty or
			The many				eriterit	Multight 14
DISEASES	OF THE EAR						1 311 13 miles	Contra Alertan
Inflammation			2	23		. 25		to a lot of the
Otitis				3		33		10800 Turning
Itorrhœa				3		3	1	and and
Mastoid abscess				4 .		4		Service Services
Other Ear Dise	ases		1	13	1	14	1	NAL AND DOGS
DISEASES	OF THE NOS	Е.	1.	1		· · · ·	stadytorend	hermain 195
nflammation				5	1	5	and are in the	Continues.
Coryza				4		4		
Nasal Catarrh				1		. 1		22 July 1
Other Nose Dis	cases			10		10		the state of the
and another part				10		10		Para and
			COULT STORE				1	-1-1-10-10
DISEASES OF T	HE CIRCULA	TORY	Real Products				1000	Contract of the local division of the
	STEM.						and the second	2 marched
								Tanka and the T
Pericarditis				4	1	4		- tel mindred
ditral Regurgi				2		2		- manualt
Aorrtic Regurg				ĩ	1	1		
Endocarditis				6	2	6		
Valvular Disea				13	4.	13		-RE. uneven
Iyocarditis				14	6	14		
Auricular febri				1	1	1		22050002
Dilatation of h				1	1	1		arterio mate
Syncope				6	6	6		Hamas
Disordered acti	on of heart			5	2	5	allow and the last	Little Trementer
Aneurysm				5		5		- anner and
Phlebitis		1		2		2		- Sauren
Fhrombosis				3		3		Transford
Auricular flutte				1		Ĩ		- conternation
		A. 175 57 57		2		2		
Varix Other Diseases	***			6		6		

Diseases	Lanks ?	Remained	Admitted	Died	Total	Remaining	Remarks
DISEASES OF THE RESPI	RATORY				-mark	IN YOL WEEK I	in manufactor st
SYSTEM.	1910					Assistant and	
sthma		1	84	- 1	85	2	
ommon cold			2		2	((() · · · · ()	
aryngitis		1	4		5		
fyxædema Bronchitis		6	296		302		
Broncho-pneumonia		2	195	55	197	4	
langrene of lung			1	1	1		
ung bruised			1		1		
leurisy		1	70	11	71	2	
èmpyema		2	35 2	7	37 2	1	
racheitis	tow	1	12	4	13		
ther Diseases of the Sys	sten	. 1	12		10		
DISEASES OF THE DIGE SYSTEM.	ESTIVE						
			0		9	nates and	
Stomatitis Stomatitis			24	4	2 4		
Pyorthœa alveolaris			9		- 9		
laries of tooth		2	10		12	2	
Ilceration of tongue			2		2		
fonsillitis			12		12	1.1 · · · · · · · · · · · · · · · · · ·	
inflammation of pharyn:	x	,	$^{6}_{23}$		$\frac{6}{24}$	2	
Jastritis		1	23 21	1 2	24 21		
Ileeration of stomach			23	~	23	1	
Dyspepsia Enteritis		7	46		53	î	
Appendicitis			. 19	1	19	1	
Colitis			3	1	3		
Ulceration of intestines			1		1		
Intestinal obstruction			5		5 112		
Diarrhœa		3	109 33	5	33	6	
Constipation Colic			21		21	2	
Sonc			9		9	Ĩ	
Ulcer of anus			3	1	3		
Fissure of anus			5		5		
Fistula in ano			15		15	1	
Hemorrhoids		1	28 43	1	29 45	$\frac{4}{3}$	
Hepatitis		22	26	1	28	2	
Abscess of liver Cirrhosis of liver		2	31	16	33	5	
Jaundice		ĩ	12	5	13	2	
Gall stones			2		2		
Alveolar abscess			2		2	1	
Appendicular abscess			5	,	5	1	
Appendicular gangrene			1	1	1		
Cancer pylorus Ptomaine poisoning			1		i		
Malnutrition			î	1	i		
Cystitis			1		1		
Cholycystitis			1		1	1700 OSA	
Imperforate anus			1		1		
Diverticulitis Jaundice neonatorum			1	1	1		
Supperative Cholangitis			1	1	1		
and toxæmia			1	1	1	in the second	
Other Diseases of the Sy			31	3	31	1	
DISEASES OF THE LYN SYSTEM.		Jan.	1 1 1 1			atrendia 	
OISTEM.			in it			and all	
Spleen, Inflammation			5		5	1	
Spleen, Rupture	5		2	2	2		
Adenitis	35		3		3	5	
Bubo	E	2	. 74		- 76	5	

Diseases		Remained	Admitted	Died	Total	Remaining	Remark
Diseases of the Lymphay System.—contd.	ric				TROTA	LUCES N. MART	NO RIFERIN
Perisplenitis			1		1		
suppuration of Glands symphangitis			5 7	1	57		
ymphangitis 9ther Diseases of the System			7		7		
the Diseases of the Oyachi			later 1				
DISEASES OF THE URINAR System.	Y		- Marine				
cute Nephritis		2	51	24	53		
Bright's Disease			10	4	10	5	
Renal Colic			2		2		
ystitis			4		Ĩ		
alculus			5		5		
tupture Urethra			1		1		
letention of Urine			9	1	9		
xtravasation of Urine			2		2		
lenal Tumor			1		1	···	
ther Diseases of the System			8	1	8		
DISEASES OF THE GENERAT SYSTEM, MALE.	IVE						
tricture			9	1	9	and the second second	
rethral fistula			4	1	4		
himosis			23		23	1	
lcer Penis			3		3		
oft chancre		5	69		74	2	
erineal abscess			1		1		
crotum, Abscess			1		1	the second second	
Do. Sloughing			2		2		
Iydrocele		1	18		19	1	
Prehitis Epididymitis ····		1	21		22	- 1	
)ther Diseases, Male Organs			10		10 14	3	
						1 1 1 1 1 1 1	
FEMALE.		1 1 1	10.00		1347		
Ietritis			1		1		
yosalpinx			î	1	î		
Bartholin glands			1		_ 1		
onorrhœal vaginitis			2		- 2		
Ovarian cyst			1	1	1		
Rape			1		1		
Prolapse of uterus Julva, Soft chancre			1		1		
Retroversion of uterus			1		1	ALC: NO. OF THE OWNER OF	alur Hurse
ther Diseases, Female Organ		2	28		30	2	
AFFECTIONS CONNECTED W							
PREGNANCY AND PARTURIT	ION.		1		12 3	Automa	
Natural labour		2	155	6	157	8	
Difficult labour		ĩ	30	9	31	naturne ·	
Celampsia			4		4	the I have the	
Abortion		1	24	. 1	25	ether furflaments	
Hyperemesis gravidarum			1		1		
Rupture perineum			2		2	and the Bar	
Retention of placenta Still-birth		1	2 2	1	3		
Denominant		1			3	RACE BET	
Descriptions Light			$\frac{1}{23}$		1		
Pregnancy			23	17	23	2	
Puerperal sepsis			6	1	1 6		
Puerperal sapramia		2	34	13	36		
Other affections							

26

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Dis	eases	Loto'R	Remained	Admitted	Died	Total	Remaining	Remarks
DISEASES OF 7	THE BO	NES AND					ARRING	
ORGANS OF	LOCOMO	TION.						
Periostitis		U		7	2	7		
Caries of bones Necrosis of bone	 es			$5 \\ 12$		5 12		
Arthritis				47		47		
Synovitis Ankylosis			3	63 1		$\frac{66}{1}$	2	
Fibromyositis				2		2	2	
Lumbago)			7		7	1	
lurvature Spine Iyalgia	e			$\frac{1}{25}$		$\frac{1}{25}$		
ther Diseases	of the (20				
of Locomotio	n	81	1	19			1	
DISEASES OF T	HE CON	NECTIVE		A The				
	SUE.	ALCOINE.		100	E. Av.		1	
Langer			10	100		015	Maran	
Abscess Cellulitis			16 5	199 100	37	215 105	7 9	
Jangrene			3	14	4	17	4	
Hernia Dedema			4	45	8	49	3	
Carbuncle	20		2	16	1	18		
Peritonitis			1	19	9	20		
Sinus Whitlow				$\frac{3}{1}$		3		
Ascites of unkn	own orig			3		3		
Other Diseases				90		00		
Tissue				32		32		
DISEASES (OF THE S	SKIN.						
		SKIN.						
Arsenical Derm	atitis			2 42	1	2 43	1	
Arsenical Derm Eczema Boil			1 	42 9	 		1 	
Arsenical Derm Eczema Boil Condylomata	atitis 		1 			43 9 1	1 	
Arsenical Derm Eczema Boil Condylomata Impetigo	atitis 		1 	42 9	 1		1	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster	atitis 		1 	$42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 3$		$43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3$	1 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis	atitis 		1 	$42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5$	 	$ \begin{array}{r} 43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \end{array} $	1 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis Ulcer Urticaria	atitis 		1 	$42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 3$	 	$43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3$	- 1 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis Ulcer Urticaria Pemphigus	atitis 		1 124 	$ \begin{array}{r} 42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,295 \\ 1 \\ 1 \\ \end{array} $	 2	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\end{array}$	-1 122 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis Ulcer Urticaria Pemphigus	atitis 		1 124 	$42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,295 \\ 1$	 2	$ \begin{array}{r} 43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,419 \\ 1 \end{array} $	- 1 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis Ulcer Urticaria Pemphigus Other Skin Dise	atitis 		1 124 	$ \begin{array}{r} 42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,295 \\ 1 \\ 1 \\ \end{array} $	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ \cdots \\ 2 \\ \cdots \\ 1 \end{array}$	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\end{array}$	-1 122 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Herpes zoster Psoriasis Ulcer Urticaria Pemphigus Other Skin Dise	atitis sases VRIES.		1 124 3	$42 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,295 \\ 1 \\ 1 \\ 28$	 2 1 	$ \begin{array}{r} 43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,419 \\ 1 \\ 1 \\ 31 \\ \end{array} $	1 122 2	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU	atitis 		1 124 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 1\end{array}$	 	$ \begin{array}{r} 43 \\ 9 \\ 1 \\ 2 \\ 4 \\ 3 \\ 5 \\ 1,419 \\ 1 \\ 1 \\ 31 \\ 955 \\ 149 \\ \end{array} $	1 2 36 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp	atitis eases VRIES. le		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\end{array}$	$ \begin{array}{c} $	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\31\\955\\149\\99\end{array}$	1 2 2 36 3	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp	atitis eases VRIES. le pound		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ \end{array}$	$ \begin{array}{c} $	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\31\\955\\149\\99\\30\\\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp Do. base Dislocations	atitis eases VRIES. le		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 13 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ \end{array}$	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\1\\31\\955\\149\\99\\30\\3\\9\\99\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp Do. base Dislocations Burn	atitis ases VRIES. le skull 		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 9\\ 9\end{array}$	$ \begin{array}{c} \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ \end{array} $	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\31\\955\\149\\99\\30\\3\\9\\9\\9\\9\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp Do. base Dislocations Burn Cut throat	atitis ases VRIES. le sound skull 		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\end{array}$	$ \begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 13 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\1\\31\\955\\149\\99\\30\\3\\9\\99\end{array}$	-1 	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp Do. base Dislocations Burn Cut throat Contusion Crushed foot	atitis ases VRIES. le skull 		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 1\end{array}$	$ \begin{array}{c} \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ \end{array} $	$\begin{array}{r} 43\\9\\1\\2\\4\\3\\5\\1,419\\1\\1\\31\\955\\149\\99\\30\\3\\9\\9\\9\\9\\1\\1\\1\\1\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. comp Do. base Dislocations Burn Cut throat Contusion Crushed foot Dog bite	atitis ases VRIES. bound skull 		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 99\end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \end{array}$	$\begin{array}{r} 43\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,419\\ 1\\ 1\\ 31\\ 955\\ 149\\ 99\\ 30\\ 3\\ 9\\ 9\\ 9\\ 30\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 102\\ \end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. base Dislocations Burn Cut throat Contusion Crushed foot Dog bite Snake bite	atitis asses VRIES. VRIES. bound skull 		1 	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 1\end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \end{array}$	$\begin{array}{r} 43\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,419\\ 1\\ 1\\ 31\\ 955\\ 149\\ 99\\ 30\\ 3\\ 9\\ 9\\ 9\\ 30\\ 3\\ 9\\ 9\\ 1\\ 1\\ 102\\ 29\\ 1\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes Soriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. base Dislocations Burn Cut throat Contusion Crushed foot Dog bite Snake bite Centipede bite Insect bite	atitis ases VRIES. bound skull 	· · · · · · · · · · · · · · · · · · ·	$ \begin{array}{c} 1 \\ \\ \\ \\ \\ \\ 124 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 99\\ 29\\ 1\\ 2\\ 1\\ 2\end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ \cdots \\ 2 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ 1 \\ 2 \\ 9 \\ 2 \\ \cdots \\ 2 \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 2 \end{array}$	$\begin{array}{r} 43\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,419\\ 1\\ 1\\ 31\\ 955\\ 149\\ 999\\ 30\\ 3\\ 9\\ 9\\ 9\\ 1\\ 1\\ 102\\ 29\\ 1\\ 2\end{array}$	$\begin{array}{c} 1 \\ \cdots \\ 1 \\ \cdots \\ 122 \\ \cdots \\ 2 \\ \end{array}$	
Arsenical Derm Eczema Boil Condylomata Impetigo Herpes zoster Psoriasis Ulcer Urticaria Pemphigus Other Skin Dise INJU Wounds Sprains Fractures, simp Do. base Dislocations Burn Cut throat Contusion Crushed foot Dog bite Snake bite Centipede bite Insect bite Guana bite	atitis sases VRIES. bound skull 	· · · · · · · · · · · · · · · · · · ·	$ \begin{array}{c} 1 \\ \cdots \\ 124 \\ \cdots \\ 124 \\ \cdots \\ 3 \\ 19 \\ \hline 6 \\ 3 \\ \cdots \\ \cdots \\ \cdots \\ \cdots \\ 3 \\ \cdots \\ 3 \\ \cdots \\ \cdots$	$\begin{array}{r} 42\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,295\\ 1\\ 1\\ 28\\ 936\\ 149\\ 93\\ 27\\ 3\\ 9\\ 9\\ 1\\ 1\\ 1\\ 99\\ 29\\ 1\\ 1\\ 2\\ 1\end{array}$	$\begin{array}{c} & \cdots & & & & & & & & & & & & & & & & & $	$\begin{array}{r} 43\\ 9\\ 1\\ 2\\ 4\\ 3\\ 5\\ 1,419\\ 1\\ 1\\ 31\\ 955\\ 149\\ 999\\ 30\\ 3\\ 9\\ 9\\ 9\\ 1\\ 1\\ 102\\ 29\\ 1\\ 2\\ 1\\ 1\end{array}$	$\begin{array}{c} 1\\ \dots\\ \dots\\ \dots\\ 122\\ \dots\\ 2\\ \end{array}$	
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Diseases	Gener	Remained	Admitted	Died	Total	Remaining	Remarks
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Other Poisons			12	2	12		and ho shin
	-					and provide	of the adaption
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ting worm			3		. 3		dimoridant
laenia solium			9		9		ogolim
Ascaris Lumbricoides		20	401	8	421	19	18 TRUSATE
Ankylostomiasis		110	1,806	138	1,916	89	-aisiau
Filaria			16		16	D' and it	loss Director
Other Nematoda			18	1	18	3	or Louisian
l'inea Tonsurans			6		6		
Do. Circinata			3		3		and the second second
l'inea Imbricata			1		1		to been as
Scabies		3	271		274	12	
Other Animal parasites			7		7	2	2 million
Not yet diagnosed			36		36		- Lineall
in the second second						The local division of the	all the second
				1			analan
Malingering			3		3		and a second
Under Observation		52	711	1	763	32	- Carrier
No discoverable disease		11	205		216	5	Ephinter
Тота	L	1,114	18,007	1,506	19,121	890	wohite

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APPENDIX-T. RETURN OF RAINFALL

From 1st August, 1928 A.D. to 31st May, 1929 A.D.

Perlix	Ins.	1 2 2	140	5-90	12-64	10-12	5-12	2.47	-39	66-1	10-50	4-92	66-9	64.04
Padang Besar.	Ins.			5-82	7-28	11.21	22-9	8-39	09-	2-53	6-13	6-25	3-67	58.65
Bandar Bahru.	Ins.			3-57	15-02	5-70	15-90	10-28	1-48	10-18	81.8	6-98	5.97	83-16
Зегдалд.	Ins.	New St	T Store	6-29	11-61	15-61	14.67	19-11	4-23	11-61	12-61	5-39	3-29	104-62
Kalim.	Ins.	1.111		5-58	19-6	13-53	13-51	6-87	3.62	12.92	96-11	12-85	5-65	96-10
Kuala Ketil.	Ins.	· NN		5.10	10.36	12-32	4-63	62-6	10-1	8-40	10-22	13-33	8.78	83-74
Baling.	Ins.			4-26	6-39	17-84	9-42	7:45	1-38	5.72	8-22	11-94	7-74	77-36
Sangei Patani.	Ins.		- HIL	5-75	20-19	7-35	9-53	7.32	1-13	8-66	5-56	9-52	8-78	83-79
Iangkawi.	Ins.		N THU I	6-19	14-77	14-63	2-72	2-59	-48	6-60	5-67	6-31	8-48	68 ·44
Alor Star.	Ins.	1 3/2 S		11-11	16-09	9-92	2.71	204	2-39	2-63	6-83	6.82	6-30	68-87
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		Deputy	Selicempor	August	September	October	November	December	January	February	March	April	May	

APPENDIX-U.

METEOROLOGICAL RETURN OF HOSPITAL, ALOR STAR,

from 1st August, 1928 A. P. to 31st May, 1929 A.D.

2			Highest Shade Temperature=96-00 on 6.2.29, 7.2.29, and 6.3.29. Lowest Shade Temperature=68-00 on 13.1.29.									
Bu		2-46	2-34	2.22	68:	1-20	2-25	-92 -	2.14	1.80	1-65	
Ilstnisß IstoT		it to de	11-11	16-09	9-92	117-2	4-07	2-39	2-63	6.83	6-82	6:30
HYGROMETER	Humidity	%	86-2	85-7	82-4	76-1	76-2	60-8	72-0	74-8	75-8	76-3
	Dew point		75-7	75-2	75-0	73-0	1-11	6-1-9	71-0	72-6	74-6	74-8
	Tapour tension	Miles -	·888	·874	-868	·812	111-	-682	657-	108.	-857	-863
	Mean wet bulb		27-5	1-22	77-4	76-2	0-92	73-9	75-0	1.92	78-0	78-1
TEMPERATURE	одиен	Tan In	11-8	14-4	Η·Π	13-8	13-7	18.1	17-5	17-6	15-9	12.8
	muminiK	TANK .	2-11-2	73-9	1-11	76-0	74-9	72-8	2-1-2	75-4	0-22	78-8
	mumixeK	Contra Co	0-68	88-3	88-2	8-68	88-6	6-06	92-2	93-0	92-9	6-16
	Меап dry bulb		80-2	6-62	80-9	81-3	6-62	82.8	80-9	81-4	83-1	83-1
Мохтнз, 1928-1929			:	:	:	:	:	e 10A	:			:
			:	:		:	:	OXABL. 10	:	:		
			:	:	:	:	:		:	:	:	:
			August	September	October	November	December	January	February	March	April	May

APPENDIX-V.

METEOROLOGICAL RETURN OF HOSPITAL, SUNGEI PATANI,

from 1st August, 1928 A.D. to 31st May, 1929 A.D.

		Lowest Shade Temperature=64-00 on 13.1.1929										
	no 00.001==910femperature=100.00 on 7.2.1929											
Su		1-03	4.18	1.17	2.08	1.80	86.	2.30	06·	4-06	2.32	
IlsînisH IstoT			92-92	20-19	7-35	9-53	7-32	1.13	8-66	5-56	9-52	8-78
TEMPERATURE HYGROMETER	yibimuH	%	73-9	1.87	6-92	74-2	0-92	64-4	68-3	70-4	6-02	74-9
	Dew point		73-3	73-5	73-6	72-8	6-11	68-8	2-02	71-8	73-5	24-2
	noisnət $\operatorname{ruoq} vV$		·820	-826	·829	£08·	.782	+02·	192-	622+	·826	-854
	Mean wet bulb		0.22	76-5	0.17	76-4	12-4	74-1.	75-3	. 76-0	2-22	78-0
	gange		19-8	17-8	18-0	19-0	17-6	24-0	21.1	21.1	20-1	18-7
	muminiK		12-4	72-4	72-0	72.1	72-2	0-02	6-12	72-1	73-4	74-3
	mumixeM		92.2	90-2 -	90-0	91-2	2-68	94-0	9-96	93-2	93-5	92.7
	меяв дъд ријр	1999	82-5	81-0	82-0	6-18	9-08	82-0	82-2	82-4	84-0	83-3
			:	:	:	:	:	:	:	:	:	:
Months, 1928-1929			:	:	:	:		:	:	:	:	:
			:	:	:	:	:	:	:	:	:	:
	Transfer		August	September	October	November	December	January	February	March	April	May

-APPENDIX-W.

METEOROLOGICAL RETURN OF HOSPITAL, KULIM,

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	Tetais IstoT	1111	5-58	19-6	13-53	33-51	6-87	3-62	12-92	96-11	12.85	2.65
	tibimuH	% -	0.88-1	80-0	0.18	-82.9	81-4	84.8	83.8	81.8	81.1	77-2
ORTER	Dew point		78-5	75-6	6 754	1.57	72-6	73-7	75-2	76-1	77-8	78-2
HYGROMETER	noisnat mod_{V}	1. 1986	-974	·885	+-880		108.	.832	. 874	006-	-952	596-
	Mean wet bulb	1.015	80-0	78-3	6-11 2	2 78-0	1-92	2.92	17-4	78-5	80-3	81.3
	Range		17-8	18-8	8 18-4	19-5	17-6	27-7	21-8	22-5	18-9	18-5
ATURE	muminiK	1.55	73-1	72-9	≣ 72.6	72-4	72-0	69-3	72-4	72-0	73-8	74-6
TEMPERATUR	numizaK	1.000	6-06	2-16	5 91-0	91-9	9-68	0-2-6	-94-2	2-1-6	- 92-7	93-0
	Mean dry bulb	- Can	82-4	82.4	~ 81-5	≥ 81.4	8-81	78-7	80-6	82-2	84-2	86-2
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	K		August	September	October	November	December	January	February	March	April	May

APPENDIX-X.

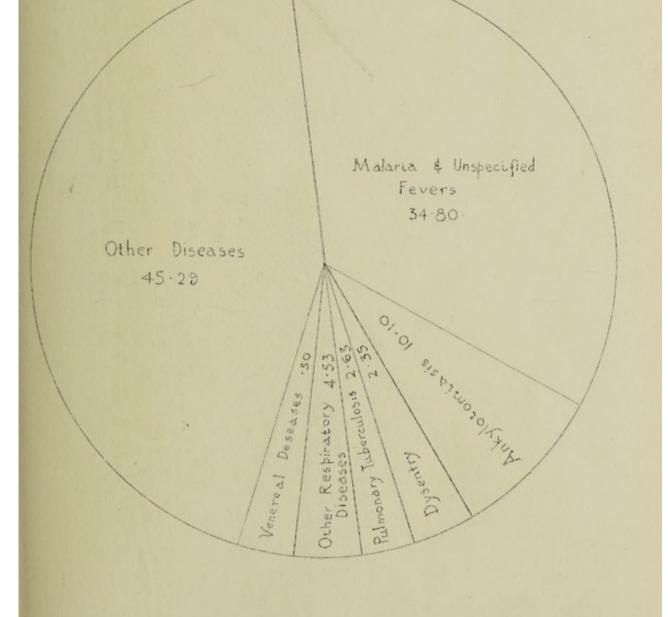
METEOROLOGICAL RETURN OF HOSPITAL, LANGKAWI,

from 1st August, 1928 A.D. to 31st May, 1929 A.D.

		-	.65 no	61-1 00-0	-66 1 =	erure bas ,	1928 Net:	-11- -11-	95, 28 82 ,8	761- [S 484	8-0g		
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Ju	Greatest Rainfall duri 94 hours		-80	2-09	2.96	21:	-58	88 [.]	1-85	1-72	1-36	2.45	
	Instates Report		61-9	14.77	14-63	2.72	2.59	-48	6-60	5-67	6-31	8-48	
	TibimuH	%	6-99	80-1	0-22	58-0	70.1	57-0	. 62.0	56-4	66-5	74-6	
HYGROMETER	Dew point		73-0	75-4	75-2	0-29*	6-62	2-29	8-69	70-2	1-1-2	2-11-2	
HYGRO	Vapour tension		·812	·880	+18.	199-	.810	-678	-728	-738	-843	-943	
	dind sow acold		77-8	78-1	78-4	73-5	27-2	74-4	75-5	0-22	0-62	81-0	
	Range		17-2	164	164	18-5	17-71	20.7	20-0	18.7	19-3	19-0	
ATURE	muminiM		73-6	73-3	74-1	73-8	74-0	71.7	74-1	75-8	75-8	75-0	
TEMPERATURE	mumixsM		8-06	2-68	90-2	92-3	91-3	92-5	97-4	94-6	1-96	94-0	
	Меап dry bulb		85-2	82-2	83-2	83-3	83-7	84-6	84-2	87.6	9-98	86-5	
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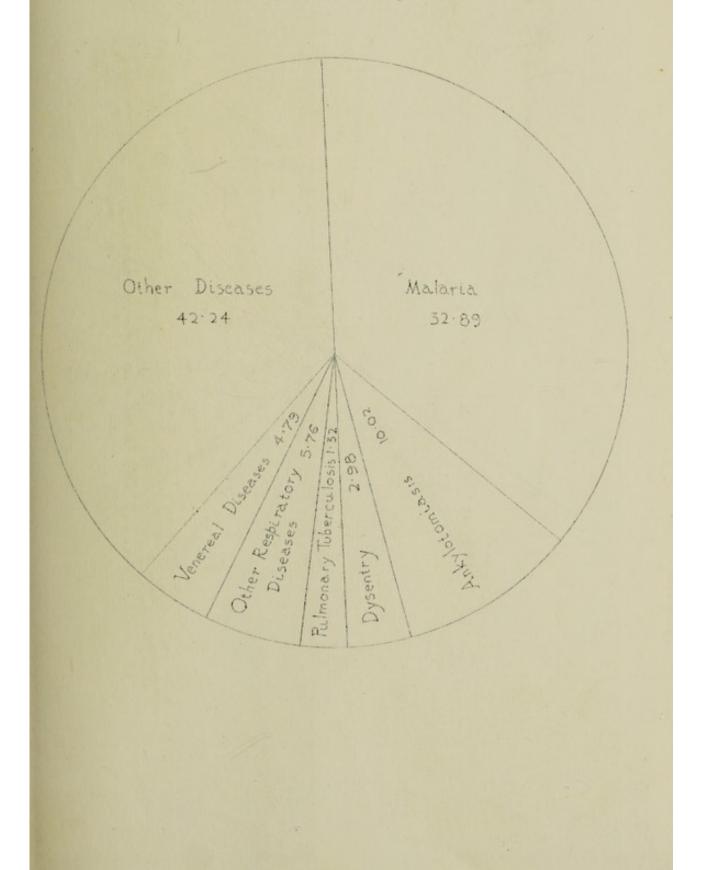
TOTAL DEATHS IN THE STATE 9,561.





PERCENTAGE OF CASES OF CERTAIN DISEASES TO TOTAL TREATED IN HOSPITALS.

TOTAL CASES 19,121.





PERCENTAGE OF DEATHS OF CERTAIN DISEASES TO TOTAL DEATHS IN HOSPITALS.

TOTAL DEATHS IN HOSPITALS 1,506.

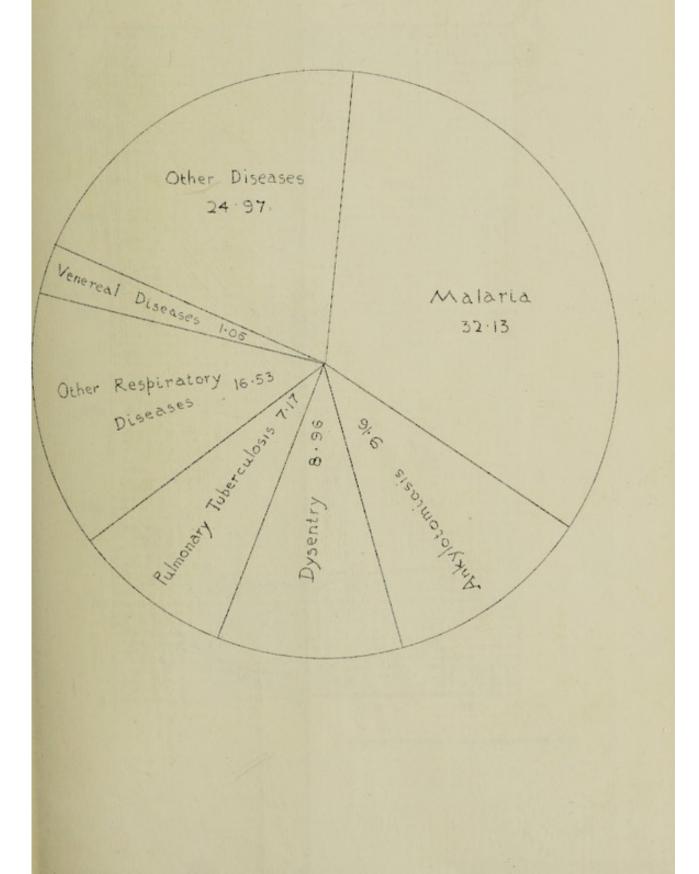
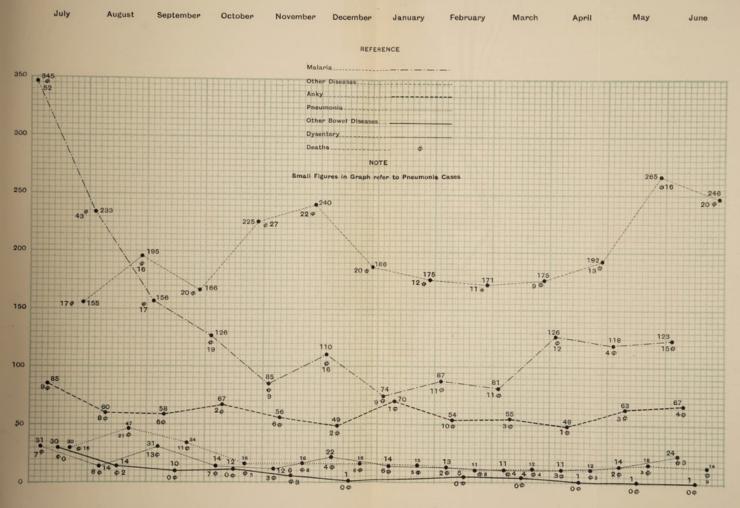
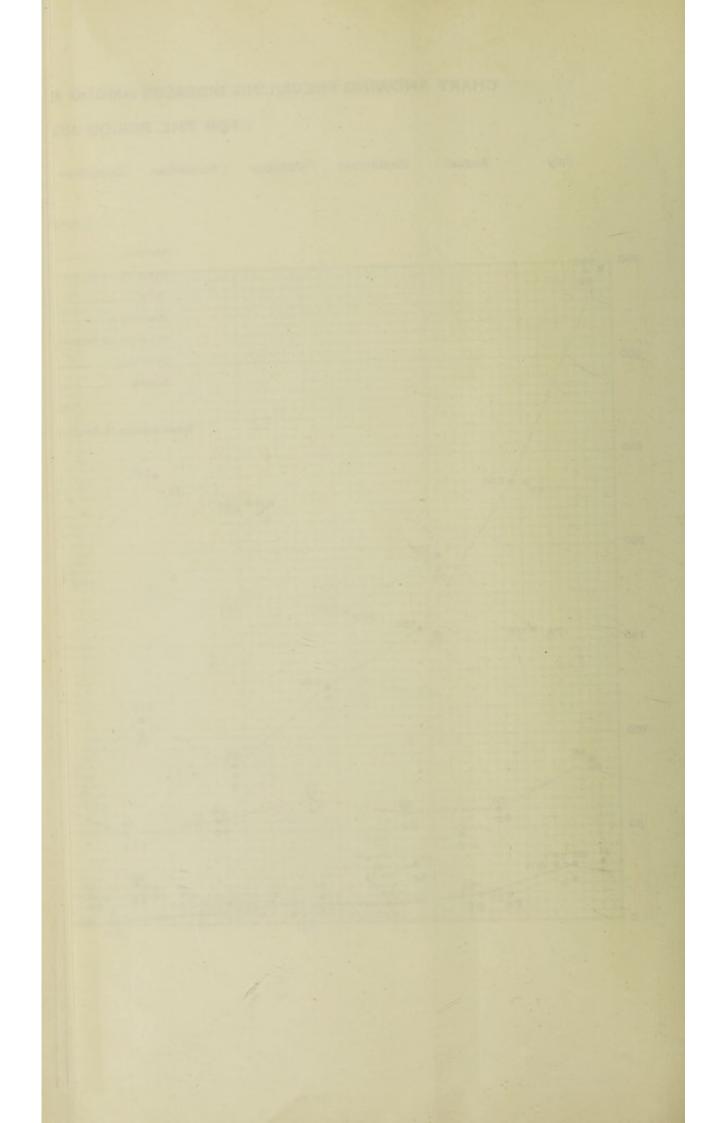


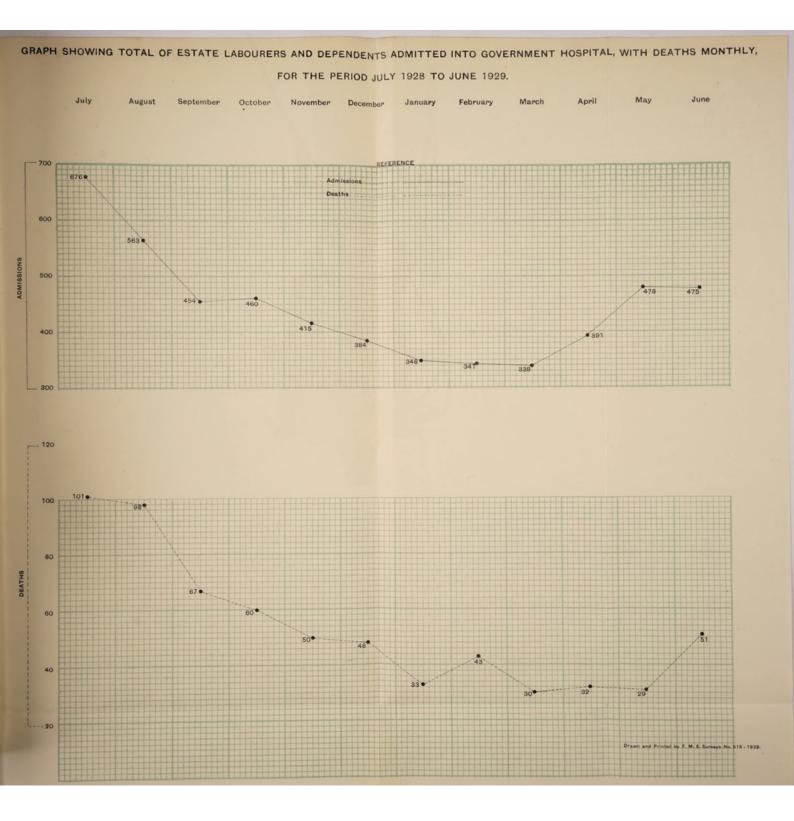


CHART SHOWING PREVAILING DISEASES AMONG ESTATES ADMISSIONS TO HOSPITAL WITH DEATHS, FOR THE PERIOD JULY 1928 TO JUNE 1929.



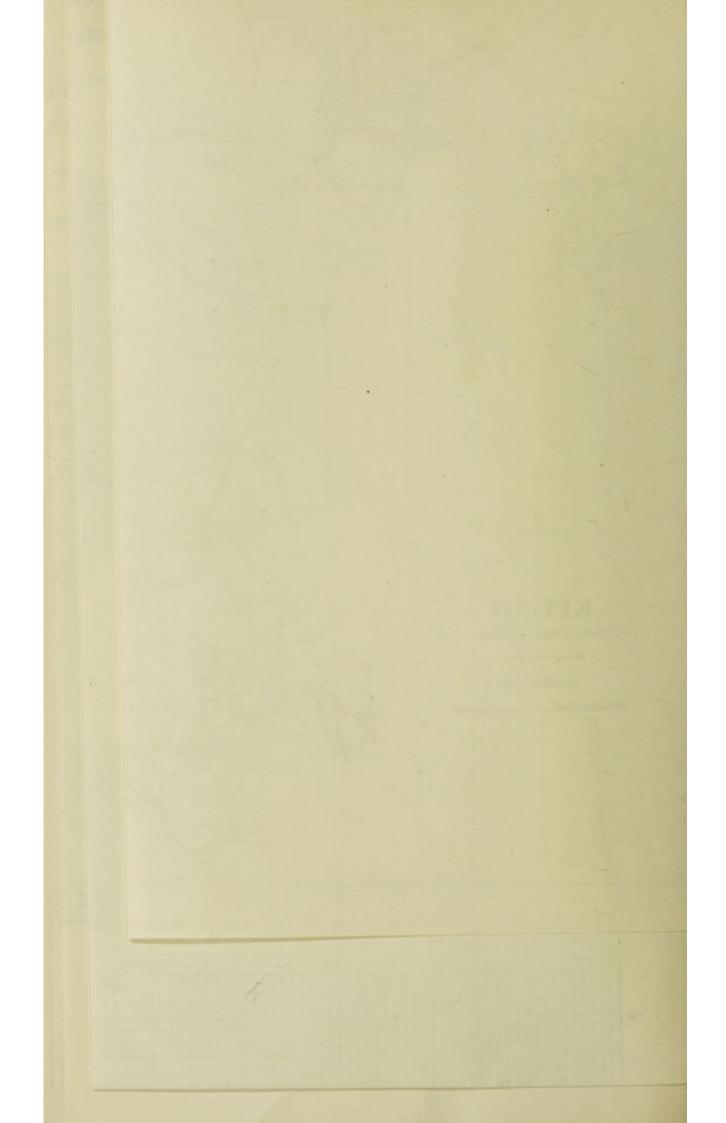
Drawn and Printed by F. M. S. Surveys No. 516 - 1929.











ANNUAL MEDICAL AND SANITARY REPORT, PERLIS

For the Year Ending 29th Zulhijjah, 1347 A.H.

(20th June, 1928 to 8th June, 1929).

-:-

I. ADMINISTRATION.

Staff.

The appointments in the Medical Department are as follows:— The State Surgeon, Kedah, who visits once a month, and oftener if required. 1 Assistant Surgeon.

1 Dresser Grade I.

1 Dresser Grade III.

1 Vaccinator.

vaccinator.

1 Dispensary Assistant.

1 Midwife.

The hospital was in charge of Assistant Surgeon, R. Sivasambandan, throughout the year.

Ordinances.

No ordinance affecting public health was passed during the year.

Financial.

The total revenue collected during the year was \$1,832.63 against \$1,621.71 in 1346 A.H.

The total expenditure was \$22,742.03 against \$23,585.45 in 1346 A.H.

II. PUBLIC HEALTH.

One case of chicken-pox occurred at Kangar and two cases of chicken-pox and one case of measles occurred at Kuala Perlis.

One case of fatal cerebrospinal meningitis, in an Indian, was admitted into hospital from Sanglang.

Two cases of enteric fever (with no mortality) were admitted into hospital during the year, of which one was a Ceylonese, from Arau, and the other was a Chinese Mining Cooly from Kaki Bukit. The source of infection could not be traced in any of these cases.

A case of acute gastroenteritis, in a P.W.D. cooly, who developed symptoms about 8 hours after the ingestion of impure water from a small pool at Arau, was admitted into the hospital, on the second day of the attack. He rallied from the original attack; but succumbed to an intercurrent pneumonia, on the sixteenth day after admission.

A few cases of influenza occurred during the first week of Rabialakhir (September).

As usual, fevers head the list of communicable diseases, and are responsible for nearly half the number of deaths in the state; most of them were malarial.

The number of cases admitted into hospital for fever shows an increase from 356 in 1346 to 439 in 1347. The mortality from malaria among hospital patients was lower than in 1346, the attacks were milder, and cerebral cases were fewer. The largest number were admitted during Moharram and Rejab (June and December). Almost all the Europeans in the state suffered from malaria at one time or other during the year.

Infantile convulsions come next in order to fevers; most of them were probably due to malaria. While the total number of births went up from 940 in 1346 to 1,315 in 1347, it is disheartening to note that the infantile mortality among infants up to one year old, rose from 94 in 1346, to 146 in 1347. Practically none of these cases sought medical aid. The mortality was greatest in Padang Malau and Chuping. The people in these places are still behind the times and have great faith in native treatment, and it takes time to persuade them to adopt a new treatment.

Lung complaints were also a frequent cause of death. There has been a slight increase in the number of such cases seeking admission into hospital during the present year.

The number of admissions for ankylostomiasis decreased from 83 in 1346 with 5 deaths, to 36 in 1347 with 4 deaths. The fall is only apparent, since most of such cases come in for fever and are returned as malaria. The incidence of ankylostomiasis among Estate Coolies was high.

Kaki Bukit, a mining village, has still the same evil reputation as a highly malarial place. It is hoped that steps will be taken shortly, to start dealing with this place.

Simpang Ampat and Sanglang, two more or less isolated places are visited about once in 6 months by travelling Dispensary. This of course is not often enough, but though it is hoped to make monthly visits, up to present it has been found impossible to do so on account of the difficulty of travelling.

The trenching of the night soil at Kangar is now more carefully supervised; the question of a better site for the trenching ground is engaging the attention of the Sanitary Board.

Rabies.

The first case of rabies for the year was reported on 15-1-47 and the last on 17-7-47. 8 persons and 2 goats were bitten in all; all the eight were sent to Alor Star for antirabic treatment; but two of them died a few weeks after treatment, from other diseases. Seven dogs were concerned in all. One was an unknown stray dog and not accounted for. The remaining six were killed on the spot. The brains of all these dogs were sent to the Research Institute, Kuala Lumpur through the State Veterinary Surgeon, Kedah. Five of the specimens were positive to rabies, and one was too far decomposed for examination. For further details vide appendix "I".

The health of the Government Servants was satisfactory. All were examined for signs of pulmonary tuberculosis and found to be free from physical signs of the disease.

Officials.

The following table gives the Health Statistics of Government Officials (including subordinates) in Perlis.

	Europeans	Asiatics
Total number of officials resident	2	371
Average number resident	2	371
Total number on sick list	2	63
Total number of days on sick list	18 days	3141/2
Average daily number on sick list	.05	.88
Percentage of sick to average number resident	100	17.00
Average number of days on sick leave for each patient	9 days	ali otal isitimb
Average sick time to each resident	9 days	.85
Total number invalided	nil	nil
Percentage of invalidings to total resident		14 hourseless
Total deaths	Larvey Insuit	2
Percentage of deaths to total resident	a to prototica m	.54
Percentage of deaths to average number resident	in the second second is	.54
Number of cases of sickness contracted away from residence	interest in the	aba eres radent

Schools.

Regular fortnightly visits were made to 13 schools by the travelling dispensary.

Of the Malay Vernacular Schools in Perlis (3 Girls' schools and 18 boys' schools) 11 boys' schools were visited by the Assistant Surgeon, with the following results.

m + 1			Percentage
Total pupils on register		 1.702	
Total seen		 1,462	
Enlarged Spleen		 626	42.8
Pupils showing no vaccination	marks	 66	4.6
Yaws (Puru)		 86	5.9

Beserie school had the greatest number of enlarged spleens: 65 out of 86.

Vaccination.

1,993 vaccinations were done against 2,864 during the previous year (2163/4 tubes of lymph were used).

Malays					1,799
Chinese					87
Indians Siamese		10 0	ceth rules per		3
Eurasian		••			103
Eurasian	· · · · · · · · · · · · · · · · · · ·	••	••	•••	1
			Total		1,993

The marked fall in the number of vaccinations is partly due to the fact that there were a large number of children too young to be vaccinated, and partly to the vaccinator going away on a month's leave.

From the reports received from the Penghulus, 60 cases were unsuccesful out of a total of 1,482.

\$798.08 was spent on vaccination, roughly 40.04 cents per case.

Vital Statistics.

(A) The population of Perlis for 1347 A.H. is estimated at 46,916, as against 46,400 for 1346 A.H.

The following is a comparative table for the last five years.

Year		Estimated Population	Births	Birth rate per mille	Deaths	Death rate per mille	
1343		43,700	824	18.85	753	17.23	
344		44,600	809	18.13	767	17-19	
345		45,500	948	20.83	829	18.22	
346		46,400	940	24.26	722	15.56	
347		46,916	1,315	28.03	767	16.35	

The excess of births over deaths was 548 in 1347.

(B) Population according to races with deaths and death rate.

100-2-10	Race	*8	Approximate Population	Deaths	Death rate per mille	
Eurasians			 8			
Europeans			 6			
Chinese			 4,076	131	32.14	
Malays			 40,203	581	14.45	
Indians			 916	23	25.11	
Siamese			 1.707	32	18.75	

(C) There were 146 deaths among infants up to one year old against 94 deaths during 1346 A.H. The rate being 111.03 per thousand births against 100.00 in 1346.

Age one year and under	Corrected rate	Rate per mille	Death	- phage	Year	
Entargo	Soleen howing "to mad	137-13	113			1343
	133.59	129.79	105			1344
1	140.22	136-08	129			1345
	103.75	100-00	94			346
dam	113.80	111.03	146			1347

Infantile death rate for the last 5 years was.

The Infantile Death rate per thousand births, among the principal nationalities was :---

A separation of GRALL-Spin	Malays	Chinese	Indians	Siamese
Crude	105.50	152.00	142.90	125-00
Corrected	107.89	157.03	157.90	128-21

(D) Births according to nationality.

Nationality.					Total
Europeans	 				
Eurasians	 				1
Chinese	 				125
Malays	 				1,128
Indians	 				21
Siamese	 			• •	40
			Total		1,315
Males	 ·	1.000			705
Females	 				610
			Total		1,315

(E) Still births according to Sex and Nationality.

	Nationa	dity	Males	Females	Total
Europeans			 The second second second	100	
Eurasians			 		
Chinese			 2	2	4
Malays			 20	5	25
Indians			 	2	2
Siamese		·	 1		1 south
		Total	 23	9	32

Diseases	Europeans	Eurasians	Malays	Chinese	Indians	Siamese	Total
Fevers			275	64	5	15	359
Commission information			91	12	2	2	107
011			58	7			65
Dom Dissage			56	26	11	11	104
Ordama (Pagel)			37	8		2	47
Diamhan daantan ata		- Schonre	17	5	111	1	23
Death after abortion or labour			17		2	1	20
Injuries and accidents .			. 6	2	1		9
Othen servers			24	7_	2		33
· Total ·			581	131	23	32	767

(F) Distribution of deaths according to Nationality and Diseases.

Injuries and accidents included one case of infanticide, two cases of fall from a height, two cases of motor accident, one case of carbide explosion, one case of suicidal cut throat, and one case of fatal wound due to weapon besides one case of burns.

	Nationalit	у	R.B. 1077	Males	Females	Total		
Malays	4114.015	· · · · · · ·		295	286	581		
Chinese				107	24	131		
Indians				16	7	23		
Siamese				14	18	32		
		Total		432	335	767		

(G) Deaths according to sex and nationality.

(H) Incidence of deaths according to ages and nationality.

	Age		lass	Malays	Chinese	Indians	Siamese	Total
5 yes 15 25 35 45 50 55 65 75 100	ar and under ars and under do do do do do do do do do do do do do			$ \begin{array}{r} 119 \\ 55 \\ 43 \\ 45 \\ 61 \\ 58 \\ 40 \\ 10 \\ 57 \\ 39 \\ 51 \\ 3 \end{array} $	19 5 3 10 17 26 12 14 12 14 12 6 7 	3 1 1 3 9 4 2 	5 4 2 3 2 4 2 7 2 1. 	$ \begin{array}{r} 146 \\ 65 \\ 49 \\ 61 \\ 89 \\ 92 \\ 56 \\ 24 \\ 76 \\ 47 \\ 59 \\ 3 \end{array} $
		Total		581	131	23	32	767

209 deaths occurred of persons over 50 years of age.

III. PORT HEALTH WORK ETC.

All vessels arriving from Siamese ports were inspected during the year owing to Cholera in Siam.

IV. HOSPITALS AND DISPENSARIES.

General Hospital, Kangar.

The number of indoor cases treated during the year was 1,104. There were 57 deaths, being a percentage of 5.16 to total treated. Excluding 13 deaths which occurred within 48 hours of admission, the death rate was 3.98.

The daily average number of inpatients was 43.76. The largest number of inpatients on one day was 65 on 29-1-47 and 15-2-47.

The figures for 1346 were:— total cases 1,087; percentage of deaths 6.25; percentage of deaths excluding deaths within 48 hours of admission 3.8 percent. Daily average 46.75.

Indoor patients according to nationalities.

Nat	Nationality		No. treated	Deaths	Percentage of deaths	Deaths within 24 hours	
Chinese Indians			458 441	37 16	8.08 3.63	8	
Javanese Malays Siamese			4 187 14		2.14	i state	
	Total		1,104	57	5.16	9	

The total number of Malays treated in the hospital was 187 or slightly more than 1/6 of the total number of admissions.

Admissions from Estates and Mines.

The total number of patients from Estates and Mines was 218 with 14 deaths or a percentage of 6.42 against 170 cases with 13 deaths (7.6 percent) during the previous year.

Na	tionality	Remaining	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining	Percentage of deaths	Death within 24 hours
Indians Chinese	 	 2 4	$\begin{array}{c} 109 \\ 103 \end{array}$	$\begin{array}{c} 111\\ 107 \end{array}$	101 87	2 1		4 10	4 9	3.60 9.35	4

The deaths included 6 cases of Pneumonia, 1 case of bronchopneumonia, 2 cases of malaria, one case of pericarditis, two cases of myocarditis, one case of cerebral haemorrhage, and one case of Hodgkins' disease.

Prevailing Diseases.

14 6		1345			1346			1347		
Diseases	Cases	Deaths	Percentage	Cases	Deaths	Percentage	Cases	Deaths	Percentage	Deaths within 24 hours
Malaria	443	13	2.93	356	14	3.93	439	10	2.28	3
Dysentery Amœbic Dysentery Bacil	27 5	6	22.22	27 1	3	11.11	21	3	14.29	
Ankylostomiasis	34			83		6.02	36	4	11:11	
Syphilis	25			28			20			
Pulmonary Tuber	29	6	20.69	30	10	33.33	28	9	32.14	
Other Lung Complaints .	76	16	21.05	56	9	16.07	68	17	25.00	2
Ulcers	90			49		1	62			
Injuries	43	2	4.65	51	2	4.00	90	2	2.22	2
Other Diseases	235	13	5.53	406	25	6.15	340	12	3.53	2
Total	1,007	56	5.6	1.087	68	6.2	1.104	57	5.16	. 9

There was an increase in the number of cases admitted for malaria, respiratory diseases, ulcers and injuries; a slight fall in the number of cases admitted for dysentery and ankylostomiasis.

The fall in the number of cases for ankylostomiasis is only apparent, since most of such cases come in for fever and are returned as malaria.

Diseases	Remained	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining	Percentage of deaths	Deaths within 24 hours
Cerebrospinal Meningitis	 	1	1				1		 100-00	
Chicken Pox Dysentery Enteric Fever	 1	$\frac{1}{20}$	$\begin{array}{c}1\\21\\2\end{array}$	18 1			 3		 14·30	
Influenza Pneumonia	 	$2 \\ 6 \\ 22$	$\frac{6}{22}$	$\frac{6}{7}$			 15		 68·18	
Tuberculosis-Phthisis	 2	26	28	19			9		32.14	
Total	 3	78	81	52			28	1	34-57	2

Infectious Diseases with Deaths.

The death rate from Pneumonia is deplorably high; since most of the cases come up late in the course of the disease, they succumb inspite of treatment.

Surgical Operations.

2 Major and 1,682 minor operations were performed.

Laboratory Work.

Blood films were examined in 2,007 instances with the following results.

Malaria B.T.				326
Malaria M.T. Malaria Quartan	•••			295 22
Malaria Mixed		Brildings		140
Negative				1,224
		r	fotal	2,007

Other specimens examined totalled 2,963 (for more details vide appendix). Post Mortem Examination.

Medicolegal	ondered 18	a housed a	di la .vela e		6
Pathological					27
			Tot	al	22

Out-Door Department.

Repetitions 1,689 The nationalities who received treatment were : 1,102 Chinese 1,102 Indians 1,450 Javanese 2 Malays Siamese Europeans Japanese Turks Total 6,638		Number of new	cases				6,638
Chinese 1,102 Indians 1,450 Javanese 2 Malays 3,891 Siamese 60 Europeans 83 Japanese 9 Turks 6		Repetitions				• •	1,689
Indians 1,450 Javanese 2 Malays 2 Malays 28 Siamese 60 Europeans 35 Eurasians 83 Japanese 9 Turks 6	The	nationalities who	received	treatment	were:		
Javanese 2 Malays 3,891 Siamese 60 Europeans 35 Eurasians 83 Japanese 9 Turks 6							
Malays 3,891 Siamese 60 Europeans 35 Eurasians 83 Japanese 9 Turks		Indians	- Servicesia	a there are	croat in surger		
Siamese 60 Europeans 35 Eurasians 83 Japanese Turks			www.britopos	der Steren	fonther in Fer		and the second se
Europeans 35 Eurasians 83 Japanese 9 Turks 6		Malays					
Japanese 9 Turks 6					Contraction of the local distance		
Japanese 9 Turks 6		Europeans	d. while they	Distance of	of the next Black		35
Turks 6		Eurasians			A State and		83
and Material and Materiology.							
Total 6,638		Turks				•••	6
					Total		6,638

In addition to those treated at the hospital dispensary, 200 cases were treated in the Kangar Gaol.

Neosalvarsan injections numbered 3,370, of which 2,233 were for yaws and 1,137 for other conditions. 20 of these injections were given to indoor patients for yaws, and the rest to out-door cases.

The travelling dispensary did most useful work, and attended to 950 cases excluding cooly lines, schools, and police stations. It is much appreciated by the working classes.

Two mental cases (both females, one Malay and one Chinese) were transferred to the Central Mental Hospital, Tanjong Rambutan in 1347 A.H. There were 15 Perlis patients (11 males and 4 females) in that institution at the end of the year. One Chinese mental case was repatriated to China.

There were 3 Perlis patients (all males) in the Leper Asylum at Pulau Jerejak at the end of the year.

Three South Indians were repatriated to India through the Labour Office at Penang. During the year under review 8 cases were transferred to General Hospital, Alor Star as follows:—

Melancholia-suspected cerebral abscess-one case.

One case of Duodenal ulcer.

One case of Ruptured appendix-Peritonitis.

One case of Haemorrhoids.

One case of abscess of Liver.

One case of Chronic abscess-loin.

One case of Compound fracture skull.

One case of wound skull-compound fracture.

Also two prisoners (one suffering from subacute appendix and one from inguinal hernia) were transferred to Alor Star Hospital, and a few out-door surgical cases were advised to go there for treatment.

Buildings.

The hospital compound was fenced.

A small part of the Dispensary building was closed off to form a Venereal Disease Clinic, but up to the present has not been much attended.

The provision of the family hut for the use of Malay women has been useful in inducing more Malays to stay at the hospital for treatment, though the response has not been as brisk as expected.

The free services of the Malay Midwife have not been taken advantage of by people; she was called out to attend only 2 cases during the year.

APPENDICES.

- A. Return of Sick Indoor patients.
- B. Return of Laboratory work.
- C. Return of deaths in Perlis State, according to mukims and Nationality.
- D. Return of deaths in Perlis State, according to mukims and diseases.
- E. Return of Infantile Mortality, according to mukims and Nationality.
- F. Return of Births and Still births according to mukims and Nationality.
- G. Return shewing distribution of births, deaths, infant mortality and still births according to mukims.
- H. Return of Rainfall and Meteorology.

I. Return of persons bitten by rabid dogs.

APPENDIX-A.

ANNUAL RETURN OF SICK.

Return of Sick of the Indoor Patients of the General Hospital, Perlis

For the year ending 29th Zul-Hijjah, 1347 A. H.

Specific Diseases		ined	tted		Discharged	Transferred	nded	a years	Remaining	Remarks
Conternal science and and		Remained	Admitted	Total	Disch	Trans	Absconded	Died	Rema	
								112		and a state of the
INFECTIVE DISEASES.										
Cerebrospinal Meningitis Chicken Pox			$\frac{1}{1}$	1	1			1		
Dysentery		1	$20 \\ 2$	21	$1\hat{8}$ 1			3	,	
Enteric Fever Gonorrhœa Gonorrhœal Pheumaticm		3	15	18	18					
Gonorrhœal Conjunctivitis			73	73	63				1	
Influenza Leprosy			$\frac{6}{1}$	$^{6}_{1}$	$^{6}_{1}$					
Mental.										
MALARIA.	-						5			
(a) Benign Tertian (b) Quartan		6	$156 \\ 10$	162 10	159 9			1	2	
(c) Malignant Tertian(d) Mixed Infection		83	149 87	157 90	$\begin{array}{c}143\\84\end{array}$			6 2	83	
(e) Type undiagnosed Pneumonia		1	19 22	20 22	20 7			 15		-
Pyrexia of uncertain origi			3	3	3					Assessments
Syphilis.	-									
Primary			6	6	66					
Secondary Tertiary		1	2 9	3 10	38				2	
Inherited			1	1	1					
TUBERCULOSIS.									an here	
Phthisis · Yaws		2	26 6	$\frac{28}{6}$	19 6			9		
Infective Granuloma			1	1					1	
INTOXICATIONS.										
Opium Intoxication			1	1					1	
GENERAL DISEASES NOT INCLUDED IN THE							1.1.			the main in the
PRECEDING GROUPS.										
Beriberi Lymphadenoma			$\frac{1}{3}$	$\frac{1}{3}$	1 2			1		
and the second second second second								Lange Co		record
CERTAIN MORBID CONDITION INCIDENT TO VARIOUS PAR									-	ALL OWNERS
New growths: Non-maligna	nt		1	1	1					130 Banimaka
Cyst		1	2	3	3					sticornal.

Specific D	liseases	1	Remained	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining	Remarks
											had anne
DISEASES OF TH SYST		us									
Facial paralysis Neuritis Periphera	 d			1	1	1					ore press
SPINAL CO MEMBRA											CTOD GO
Myelitis				1	1	1					Learningstream
NERVOUS D	ISORDERS.										Xoff-salakito El cognetation
Damanlagia						-					
Paraplegia Hemiplegia				1 2	1 2	$\frac{1}{1}$					
1.0											
MENTAL D	ISEASES.	1		1							To Central Mental
Mania			3	8	11	$\frac{6}{4}$	2	1		' 2	Hospital
Melancholia Mental case under			2	4	6 2	42	1			1	T. Rambut:
arentar case under	observation		1	1	2	2					To General Hospital
DISEASES OF	THE EYE.										Alor Star
Conjunctivitis			2	1	3	3					
Trachoma				1	1	1					
Ceratitis Jlcer of cornea				1		1					
ptic atrophy				1	1	1				1	
DISEASES OF	-				NO ROLLING	1					
	THE BAR.			20 10	and is	-					
nflammation				2	2	2					
DISEASES CIRCULATORY							1				
Pericarditis				2	2	1			1		
Valvular disease				2 2 4	2 2 4	2					
Iyocarditis				4	4	1			3		
DISEASES RESPIRATORY											
Asthma				15	15	13				2	
Bronchitis				10	10	10					
Bronchiectasis Bronchopneumoni				1 8	1 8	1 5				2	
Pleurisy			1	9 2	10	5 10			1	2	
Smpyema				2	2	1			1		
DISEASES DIGESTIVE		19. 20	-								
Stomatitis)	6		1	1	1					
Gangrene of mout	h			1	1		/		1		
Inflammation of I	harynx			4	4	4					
Gastritis Enteritis				1 12	1 12	1 12					
CHIPCITIC .				12	12	12					

Specific Diseases		Remained	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining	Remarks
		B	V	F	9	T	P		B	
DISEASES OF THE DIGESTIVE SYSTEM.—com	atd.									an interest
Appendicitis		1	4	5	5					
Duodenal ulcer			5	5	4	1				To General
Sprue Hernia			$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$					Hospital Alor Star.
Intestinal obstruction			ĩ	ĩ	ĩ					Alor Star.
Colic			15	15	15					
Hæmorrhoids			6	6	5	1				do
Hepatitis Abscess of liver			$\frac{2}{1}$	$\frac{2}{1}$	2	1				da
Abscess of hver Cirrhosis of liver			3	3						do
Jaundice			3	3	3					
Peritonitis acute abdomen										
Ruptured appendix			1	1		1				do
DISEASES OF THE LYMPHATIC SYSTEM.										
Bubo		1	3	4	4					
Supportaion of glands			1	1	1					
Lymphangitis			25	25	2 5					
Lymphadenitis			9	э	Э					
DISEASES OF THE URINA	RY									
SYSTEM.			13.1							
Contract a Manufacture										
Cyclical Albuminuria Brights' disease			$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{5}$				1	
Cystitis			2	2	2					
Calculus-vesical			1	1	1					
										Latin Carlos and Street P
DISEASES OF THE					100					allowed with a
GENERATIVE MALE SYST	EM.				3.12					S. Marine Contractor
GENERATIVE MINE STOL					G					Providing the
Balanitis			1	1	1					
Epididymitis			$\frac{1}{2}$	1	1 2 2					
Phraphimosis Scrotum Abscess			29	22	29					
Grounn Abscess ,			-	~	~					
10 10					AL COST					
FEMALE.										
Pustubes			1	1	1			1.000		
Pustubes			1		-					
AFFECTIONS CONNECTED W										
AFFECTIONS CONNECTED W PREGNANCY AND PARTURIT										
PREGNANCY AND PARTURIT	FION.		1	1	1					
PREGNANCY AND PARTURIN Pregnancy waiting case			111	1	1					
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour	FION.		1 4	1 4	1 4					
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour Retention of Placenta	FION. 		1 4 1	1 4 1	$\begin{array}{c}1\\4\\1\end{array}$		 			
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour	FION. 		1 4	1 4	1 4					
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour Retention of Placenta	FION. 	 	1 4 1	1 4 1	$\begin{array}{c}1\\4\\1\end{array}$		 			
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour Retention of Placenta Puerperal Septicæmia DISEASES OF THE ORGA OF LOCOMOTION.	FION. LNS			$\begin{array}{c}1\\4\\1\\2\end{array}$	1 4 1 			 ₂		
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour Retention of Placenta Puerperal Septicæmia DISEASES OF THE ORGA OF LOCOMOTION. Necrosis of bones	FION. 	 	1 4 1	1 4 1 2 2 5	1 4 1 		 			
PREGNANCY AND PARTURIN Pregnancy waiting case Eclampsia-Antepartum Normal labour Retention of Placenta Puerperal Septicæmia DISEASES OF THE ORGA OF LOCOMOTION. Necrosis of bones	FION. LNS			$\begin{array}{c}1\\4\\1\\2\end{array}$	1 4 1 			 		

Specific Diseases	A restaura	Remained	Admitted	Total	Discharged	Transferred	Absconded	Died	Remaining	Remarks
Diseases of the connecti	VE							.me		1.X+10
Tissue.										
Cellulitis		1	12	13	10			1	2	Ingote pair they
Abscess Sinus abdomen P.O.		1	24 1	25	21 1	1			3	To General Hospital
onus aouomen 170.									notion.	Alor Star.
DISEASES OF THE SKIN.										abical removed a
Arsenical dermatitis			1	1					1	- Allingest
Boils		1	3	4	3				î	17 have been dealers
Eczema			6	6	6					Lauridice
Prickly heat Ulcer			$\frac{1}{54}$	$\frac{1}{62}$	$\frac{1}{57}$					all to rest
		0	or	0.4	01					and a construction
INJURIES.									TE UNY	OPHERIC
Dogbite			1	1					1	Tertal and
Burns	••••		7	7	7					T'estimations.
Local-	1									Mitrid molegator
(a) Wounds		+	64	68	62	1			5	To General
(b) Contusion			3	3	3					Hospital
(c) Sprains (d) Fracture simple			$\frac{4}{5}$	$\frac{4}{5}$						Alor Star.
(e) Fracture compound			2	2	4			1		do
and the second sec									in market	will a Limitensia
PARASITES.									- 14	Defigiate' (House
I ARAOITES.										alling a
Tænia saginata			1	1	1					and the second s
Ascariasis Ankylostomiasis			23	23	23					
Ascariasis & Ankylostomiasis			36 14	36 14	32 14			4		DERISA
Scabies			3	4	4					COLUMN NUMBER
Ringworm			2	2	2					Barning
Under observation For sake of mother, child etc.			9 13	9 13	8 13				1	Spidigmitte
Tor sake of mountry, child etc.			1.5	15	10					Paraphimosta Sciotum Vice
Total		55	1,049	1,104	984	10	2	57	51	
Nationalities.										estiment
Chinese		22	436	458	387	3	1	37	30	APPROXIMATION
Indians		24	417	441	413	2		16	10	TORA NUMBER
Javanese		1	3	4	3				1 8	
Malays Siamese	••••	8	179 14	187 14	159 12	5	-1	4	82	
oramese	***		14	14	12				-	
Total		55	1,049	1,104	984	10	2	57	. 51	

Percentage of deaths to total treated 5.16.

Total number of cases which proved within 48 hours of admission 13.

Percentage of deaths to total treated excluding deaths occurring within 48 hours of admission 3.91. Total number of cases which proved fatal within 24 hours of admission 9 cases.

APPENDIX-B.

Laboratory Work, 1347 A.H.

Nos.	Spec	imen		RESULT	ndar		Numbers Examined	Total ,
1	Blood			Malaria B.T.			326	
				Malaria M.T.			295	
	p bi ai			Malaria Quartan			22	
				Malaria Mixed			140	0.005
				Negative			1,224	2,007
. 2	Pus			Gonococcus			43	
~	Lus			Negative			48	91
				reguire			10	
3	Eye Smear			Diplo Bacillus			2	
	1 1 1 1 2 1			(Morax and Axenfel			alt will be	
				Gonococcus			9	
				Pneumo cocci			5	
				Negative			10	26
							and all a	
4	Nasal Smear			Lepra Bacillus			1	
				Negative			10	11
5	Cerebrospinal	fluid		Pneumococci			1	I
6	Sputum			Tubercle Bacillus			28	
	oputum			Pneumococci			24	
				Pneumo-Strept-Staphy			25	
				Strepto-Staphylo			18	
			21	Negative			97	192
							Lange	
7	Stool			Amœba Hystolytica			22	
				Amœbic Cysts			16	
			1	Ankylostome	(11)		396	
				Anky-Ascaris			323	
				Anky-Whipworm			48	
				Ankylo-Ascaris-Whipw	orm		112	
				Ascaris		•••	185	
				Ascaris-Whipworm			39 81	
				Whipworm			2	
				Oxyuris Tænia Saginata			2	
				Negative			467	1.693
				regarie			101	
8	Urine			Albumen			198	
		1.		Bile			11	
				Sugar			2	
				Negative			738	949

Total number of specimens examined 4,970.

APPENDIX-C.

Deaths in Perlis for 1347 A.H.

767 deaths were recorded in 1347.

	Mukim		Ma	lays	Chi	nese	Ind	ians	Siar	nese	T	otal	Tot	al
No.	Mukim		М.	F.	М∙	F.	M.	F.	М.	F.	M.	F.	М.	F
						13	also del	-		-		bung		
1	Abi		15	14	1						16	14	30	
2	Arau		42	47	10	3	2	1	8	13	62	64	126	
3	Bintong		18	17							18	17	35	
4	Chuping		32	27		1			4	5	36	33	69	
5	Kuala Perlis		10	13	2	3					12	16	28	
6	Oran		14	17	1	1					15	18	33	
7	Padang Malau		34	35	32	5		1	1		67	41	108	
8	Paya		75	56	45	7	14	5	1		135	68	203	
9	Sanglang		13	14	12						25	14	39	
10	Utan Aji		14	11		2					14	13	27	
1	Utan Gelam		27	32	4	1					31	33	64	
	Name of place n mentioned	ot	1	3		1					1	4	5	
	Total		295	286	107	24	16	7	14	18	432	335	767	

APPENDIX-D.

		 								_	
Muk		Fever .	Respiratory Diseases	Diarrhœa, Dysentery, etc.	Oedema (Basal)	Old Age	Infantile Convulsions	Deaths after abortion or child birth	Injuries and accidents	Other Causes	Total
Abi		28			1		1				30
							1996				
Arau		 47	15	5	10	14	29	3		3	126
Bintong		 19	4	1	2	1	4	1	2	1	35
Chuping		 37	8	1	2	5	9	3		4	69
Kuala Perlis		 9	1			7	10			1	28
Oran		 11	2		6	7	7				33
Padang Malau		 55	11	9	7	6	15	1	1	3	108
Paya		 91	47	4	10	14	13	4	4	16	203
Sanglang		 14	5	1	3	3	10	1	1	1	39
Utan Aji		 13	4		5	3	1			1	27
Utan Gelam		 31	6	2	1	5	8	7	1	3	64
Place not record	ded	 4	1								5
	Total	 359	104	23	47	65	107	Ž0	9	33	767

Distribution of deaths according to Mukims and Diseases.

Mul	kims	Ma	lays	Chi	nese	Ind	lians	Siar	mese	Total
		М.	F.	М.	F.	М.	F.	М.	F.	Solf 10
		VIII		1	112	1				
Lbi		 1	2							3
Lrau		 18	9	3		2			1	33
Bintong		 4	3							7
Chuping		 8	5		1				4	18
Kuala Perlis		 2	5							- 7
Dran		 4	3		1					8
Padang Malau		 12	7	4	1					24
Paya		 10	11	1	3		1			26
Sanglang		 3	5	3						11
Jtan Aji		 1	1		1					3
Jtan Gelam		 3	2		1					6
	Total	 66	53	11	8	2	1		- 5	146

APPENDIX-E.

Infantile mortality in Perlis for the year 1347 A.H.

Males	 *	 79
Females	 	 67

Total ... 146

APPENDIX-F.

Births and Still Births in Perlis in 1847 A.H.

1,283 births and 32 still births were recorded in 1347.

		AL ALPENNER		BIR	тня				STIL	L BI	RTHS	
Mu	ıkims	Malays	Chinese	Indians	Siamese	Others	Total	Malays	Chinese	Indians	Siamese	Total
and the second				11		1				1		-
Abi		 39					39	1	•••			1
Arau		 202	19	6	19		246	6	1			7
Bintong		 52			1		53					
Chuping		 58	3		12		73					
Kuala Perlis		 83	7		1		91	6				6
Dran		 57	2	2			61					
Padang Mal	au	 58	21	4	4		87	1				- 1
Paya		 158	23	7	1	1	190	5		2		. 7
Sanglang		 95	28		1		124	3	2		1	6
Utan Aji		 27	1				28	1				1
Utan Gelam		 274	17				291	2	1	2		
	Total	 1,103	121	19	39	1	1,283	25	4	2	1	32
Ma	ales			. 682	2	M	ales		••••		23	

Males				682	Males				23
Females	•			601	Femal	les			9
		• Total		1,283			Total		32
			-					-	
		Total Bir	rths			1,283			

Total Still Births		 32
	Total	 1,315

AP	PE	ND	IX-	-G.
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Mukims			Total Deaths	Births (excludes Still- births)	Infantile mortality	Still-births
Abi			30	39	3	amidalit 1
Arau			126	246	33	7
Bintong			35	53	7	
Chuping			69	73	18	
Kuala Perlis			28	91	7	6
Oran			33	61	8	
Padang Malau			108	87	24	1
Paya			203	190	26	7
Sanglang			39	124	11	6
Utan Aji			27	28	3	1
Utan Gelam			64	2,911	6	3
Name of place	e not reco	orded .	5			
	Tota		767	1,283	146	32

•

Distribution of births, infantile mortality and total deaths according to Mukims.

APPENDIX-H.

METEOROLOGICAL RETURN OF HOSPITAL, PERLIS,

from 1st August, 1928 A.D. to 31st May, 1929 A.D.

	Highest Shade Temperature—96.00 on 2-4-29, 14-4-29, 15-4-29 and 4-5-29. Lowest Shade Temperature—64-00 on 14-1-29.												
Greatest Rainfall during 24 hours			1-59	2.10	19-1	1:35	-81	-35	2-95	3-85	1-03	1-62	
IfatriaH latoT			5-90	12-64	10-12	5-12	3.47	-39	4-99	10-50	4-92	66-9	
HYGROMETER	yibimuH	%	80-1	84-3	79-2	6-19	0-22	65-59	68-4	6-02	74-2	2-11-5	
	Dew point		1-91	75-9	74-3	8-99	72.7	68-8	F-02	72-0	74-9	76-1	
	noisnet unoqsV		128.	¥68-	818	299-	¥08-	+02-	FF2-	982-	<u>6</u> 98-	006-	
	dlud isw næsk		8-11	78-0	77-2	72-6	75-9	73-9	75-0	76-1	78-5	2-62	
TEMPERATURE	egnefi		1.5.1	13-7	13-5	17-0	15-5	19-4	18-2	20-0	2-61	17-4	
	muminiK		73-5	73-3	73-2	72-1	71-8	70-2	72-6	72-1	73-3	73-9	
	annaixsK		88-6	87-0	86-7	1-68	87-3	9-68	90-8	92-1	93-0	91-3	
	Mean dry bulb		81.8	1.18	81-1	81.1	80.6	81.5	81-9	82-4	84-0	83-9	
Момтня, 1928-1929				:	:	:	:	:	:	:	:	:	
				:	:	:			:	:		:	
			:	:	:	:	:	:	:	:	:	:	
			August	September	October	November	December	January	February	March	April	May	

APPENDIX-I.

Rabies in Perlis in 1347.

		-	20				
REMARKS	The patient died 14 months after	treatment.	The goat was killed and buried deen.	do		Died one month after treatment.	
Results of dog's brain sent to K. L.	Positive	do.	do.	do.	do.	:	Brain decomposed
	:	:	:	1941	:	:	in the second
Dog alive or killed	Killed on the spot	do.	Shot on the spot	Killed on the spot	do.	Dog unknown	Killed on the spot
Dute of hite	15-1-47	15-2-47	15-3-17	22-1-17	30-1-47	25-3-47	17-7-47
ons hitten	:		l goat	: heren	:	:	
No. of Persons bitten	One Malar	One Malay	3 Malays and 1 goat	1 goat	1 Chinese	1 Chinese	1 Malay
	:	÷	:	:	:	:	:
Place	Mata Aver	Paya	Kangar	Aran	Аган	Pangkalen Assun	Arau (Guring)
No.	Lan	21	**	+	-		-

All the eight persons were sent to G. Hospital, Alor Star for necessary antirabic treatment.

