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Senior Medical Officer-in-Charge,

- Health Department,

Zanzibar

14th June, 1950

SIR,

I have the honour to submit for the information of His Excellency the British Resident and for transmission to the Right Honourable the Secretary of State, the Medical Report on the Health and Sanitation conditions of the Zanzibar Protectorate for the year 1949.

I have the honour to be, Sir, Your obedient servant,

C. R. C. RAINSFORD, Senior Medical Officer-in-Charge, Health Department

THE HONOURABLE

THE CHIEF SECRETARY TO THE GOVERNMENT, .

ZANZIBAR

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ZANZIBAR PROTECTORATE

Medical and Sanitary Report

for the year ended

31st December, 1949

SECTION I.—ADMINISTRATION: GENERAL REVIEW

STAFF

There was a serious shortage of Medical Officers during the early part of the year but the staff position improved later. Dr. Balean returned from leave in May, 1949, and Dr. Jaworski on new appointment arrived in July, 1949, Dr. Rainsford, the substantive Senior Medical Officer, took over at end of August, 1949, and Dr. Robertson who was on leave from April, was back by early September, 1949. Dr. Purnell arrived in October from Northern Rhodesia to fill the vacancy (unfilled since August, 1948), for a Specialist Officer. Dr. Robertson, Pathologist, acted as Senior Medical Officer until he went on leave in April, and was succeeded by Dr. Merson.

The duties of the Specialist Officer were carried out by Dr. Merson and Dr. Young. The latter went on leave in November, 1949.

Dr. Jaworski was posted to Chake Chake, Pemba, in July, so restoring the normal complement of Medical Officers in Pemba to two.

Nursing Sisters too were in short supply. Three new sisters arrived, Miss Hardes, Miss Hebden and Miss Smith but two resigned and three were on leave. Miss Beecroft, the Matron, proceeded on leave in May, and owing to illness had not returned by the end of the year. Miss Allen acted.

One Sub-Assistant Surgeon was invalided and one Assistant Lady Medical Officer resigned. She had only seven months' service.

One Assistant Medical Officer obtained his diploma at Makerere in December, and will be appointed to our staff next year.

The Assistant Dental Surgeon, and one Assistant Medical Officer continued their studies in the United Kingdom during the year.

DISTINGUISHED VISITORS

Dr. Pridie, c.m.g., d.s.o., o.b.e., m.b.b.s., Chief Medical Adviser to the Secretary of State for the Colonies paid us a brief visit in November, 1949.

Lieut.-General Daubenton of the World Health Organisation spent a few days in Zanzibar during May, 1949.

Sir Thomas Lloyd, Permanent Under-Secretary of State, visited the general hospital, Zanzibar, and the Mental Hospital on 12th November, 1949. He also inspected the hospital at Wete, Pemba.

TRAINING OF NON-EUROPEAN PERSONNEL

The training of Sanitary Inspectors was continued by the European Sanitary Inspector-Teacher. Nine candidates sat for the examination of the Royal Sanitary Institute in December, 1949, conducted at Zanzibar and four passed.

The external examiner commented on the low standard of general education of some of the candidates which prevented them from absorbing their technical teaching.

The training of Nurses, Attendants and Midwives was continued with some difficulty owing to the shortage of Nursing Sisters, eight candidates presented themselves for the final (third year) examination in December, 1949, and four passed.

HOSPITALS

A. Buildings

(1) Mental Hospital.—The new mental hospital at Zanzibar built from funds provided by the Colonial Development and Welfare Act was finished and opened in March, 1949.

It is a fine building of modern design with accommodation for 78 male and 53 female patients. The different types of cases are segregated in separate wards. It is already almost full to capacity.

(2) Wete Hospital (Pemba).—A new ward (40 beds) and operating theatre were approaching completion by the end of the year.

B. GENERAL

The working of the hospitals was maintained, the number of in-patients treated was 6,228 compared to 6,819 in 1948.

DISPENSARIES

A new dispensary was opened at Konde in Pemba. Work was started on a new maternity centre at Makunduchi in the south of Zanzibar. The buildings which were nearly completed at the end of the year consist of a maternity ward of 6—8 beds, labour ward, small dispensary, ante-natal examination room and midwife's quarters.

In addition, two houses were under construction for a Sanitary Inspector and a Dispensary Attendant.

The number of patients treated in dispensaries was-

New cases 52,026 Re-attendances ... 139,410

MATERNITY AND CHILD WELFARE

These services were satisfactorily maintained there were 490 confinements in Government hospitals compared with 508 in 1948.

SCHOOL MEDICAL AND DENTAL SERVICES

This service was in abeyance throughout the year owing to the absence of the Assistant Dental Surgeon who was on study leave in the United Kingdom.

SECTION II.—PUBLIC HEALTH

1. Returns

The total number of patients seen at hospitals and dispensaries during the last five years was as follows:—

	1945	1946	1947	1948	1949
New cases	 114,951	 125,557	 131,955	 138,939	 127,816
In-patients	 6,246	 6,643	 7,257	 6,819	 6,228
Total attendances	 409,127	 430,331	 525,473	 454,236	 304,687
Deaths in hospitals	 420	 504	 482	 376	 318

The principle causes of death in Government hospitals were:-

Tuberculosis					16
Dysentery	***				2
Tetanus			***		7
Malaria					12
Pneumonia	***				47
Diseases of th	ne blood an	d blood f	orming o	rgans	26
Diseases of t	he skin, ce	llular tis	sue, bon	e and	
	of locomoti				21
Ankylostomia	sis				7
Diseases of t	he circulate	ory syste	m		37

2. GENERAL DISEASES

- 1. Epidemic, endemic and infectious diseases.—In this group there were 21,452 cases with 52 deaths.
 - 2. General diseases.-2,746 cases were reported.
- 3. Diseases of nervous system and organs of sense.—6,548 were treated the majority 4,877 were diseases of the eye including 16 cases of trachoma.
- 4. Affections of the circulatory system.—523 cases were recorded including 423 of heart disease with 30 deaths.

- 5. Affections of the respiratory system.—In this large group of 8,642 there were 696 cases of pneumonia with 47 deaths. This compares with 909 cases and 49 deaths in 1948.
- 6. Affections of the digestive system.—There were 11,726 cases in this group including 572 of hernia.
- 7. Diseases of the genito-urinary system.—2,693 cases of non-venereal diseases of the genito-urinary system were treated.
 - 8. Puerperal state and diseases of infancy.-493 cases were treated.
- 9. Affections of the skin, cellular tissue and organs of locomotion.—17,042 cases were recorded. They include tropical ulcers, septic conditions of the skin and myalgia.
- 10. Affections produced by external causes.—There were 8,891, the majority were minor injuries.

COMMUNICABLE DISEASES

(A) INSECT-BORNE

Malaria.—8,222 cases were recorded, of these 584 were treated as inpatients with 12 deaths. The corresponding figures for 1948 were 11,742 cases including 733 in-patients and 25 deaths.

Blackwater.—Three cases were treated during 1949 with no deaths.

Relapsing fever.—There was no case reported at the hospital.

Plague.—The Protectorate continues to be free from plague. The usual precautions were taken to prevent its introduction.

(B) INFECTIOUS DISEASES

Small-pox.—No cases of small-pox occurred during the year.

The following vaccinations were performed: -

Zanzibar township Ships and dhows	/	 17,682 346
Zanzibar Island Pemba		 18,028 447
remba	Total	 18,475

Tuberculosis.—256 cases attended Government hospitals. Admissions to hospitals numbered 114 and there were 16 deaths.

There is no tuberculosis sanatorium in Zanzibar but some cases are accommodated at Walezo. Others are treated on the verandahs of the general hospital wards.

In Zanzibar township Sanitary Inspectors visit tubercular patients in their houses and advise on routine sanitation measures. Disinfectant for the treatment of infected sputum is provided free of charge.

34,504

In all cases where the patients left the Protectorate and proceeded to the mainland territories the Medical Officer of the Health of the area was informed.

The local Welfare Society was notified and gave assistance to needy cases.

Leprosy.—The majority of leprosy patients submit voluntarily to segregation in the leprosy settlements at Walezo (Zanzibar) or Makondeni (Pemba).

The numbers cared for was as follows: -

			W	alezo	Ma	kondeni
Remaining on	31st De	cember,	1948	47		51
'Admitted durin	ig 1949			13		12
Discharged			1	5		-
Died	***			3		8
Transferred to	Walezo	Institut	e	-		3
Remaining on	31st De	cember,	1949	52		52

Walezo

At Walezo which is under the management of the Catholic Mission there are 62 houses mostly of temporary construction. Two houses in permanent materials were under construction.

Makondeni (Pemba)

This camp is under direct Government control and has accommodation for 92 patients, 52 were in residence.

One hospital orderly is in charge assisted by a staff of menials.

The inmates themselves are encouraged to assist in the less arduous duties about the camp and are paid for work done. Unfortunately they show little enthusiasm but some do cultivate their own gardens, growing crops of bananas, cassava, etc.

VITAL STATISTICS

The District Medical Officer, Wete, visited the settlement once a week.

Population:— 1948 Census 265,872 Add Births 6,294 37,140 Immigrants 30,846 37,140 Deduct Deaths 4,362 ... 4,362

Emigrants ...

Total estimated population for 1949 268,508

30,142

Births and deaths.—A total of 3,719 births and 2,594 deaths were recorded in Zanzibar, and 2,575 births and 1,768 deaths registered in Pemba. Birth rate 23.44 per thousand. Death rate 16.24 per thousand.

Infantile mortality.—376 deaths of children under one year old were registered. Infantile mortality rate 59.74 per thousand live-births.

Still-births.—65 still-births were registered. Still birth rate 10.3 per thousand births.

Maternal mortality.—32 maternal deaths were registered. Maternal mortality rate 5 per thousand.

SECTION III.—HYGIENE AND SANITATION

Mosquito Control

The usual methods for the control of mosquitoes in and around Zanzibar township were energetically persued.

Drains, tanks and pools of standing water were oiled, earth drains and ditches were kept cleaned and some premises were sprayed with D.D.T. In addition 3,591 feet of new concrete drains were laid and 9,133 square yards of low-lying land was raised.

There was a considerable decrease in the number of anophelene and culex breeding places found in the township but an increase in that of aedes possibly due to closer inspections.

Details of the work done is given in the following tables:-

Inspections of Premises:

	Zanzibar	Pr	otective belt
	township	outs	side township
European	 6,453		159
Indian	 114,008		413
Arab	 65,469		657
African	 219,799		17,546
Others	 35,930		
Vacant houses	 9,455		593
Mosques and			
temples	 6,105		727
	457,219		20,095

Other Inspections:

	Zanzibar	Pr	otective belt
	township	outs	side township
Sullage and cesspits	171,095		7,502
Drains	17,341		1,672
Gully traps	57,439		1,186
Roof gutterings	2,754		211
Burrow pits	261		4,383
Swamps	193		543
Crab holes	80,335		6.794
Anti-malarial drains	2,431		2,014
Dhows on beach	485		1,297
Boats	1,970		1,239
Wells and water			-100
holes	1,413		4.745
Pools	1,196		7,733
Gardens	11,851		892
Graveyards	7,526		987
Open lands	15,447		5,476
Trees	8,022		20,492
Mosquito traps	129		-
	379,888		67,166

Breeding Places Found:

		Zanzibar township		tective belt ide township
Anophe	les	 87	***	326
Aedes		 2,448		77
Culex		 333		172
		2,868		575
				- management -

Adult Mosquitoes caught in Control Stations:

		Zanzibar township	otective belt side township
Anophe	les	 1	 19
Aedes		 6	 156
Culex		 4,953	 1,090
		4,960	1,265
Aedes	index	 0.49	 0.25

Action Taken:

		Zanzibar township		otective belt ide township		
Notices for abatement served				2,501		26
Prosecutions for failure to abate				31		-
Earth drains or ditches cleared and	graded	(linear feet)	***	455	***	503,400
New concrete anti-malarial drains	laid (linear feet)		3,591		1-
Low-lying land raised (square yards	3)		***	9,133	***	-

The following number of oilings were made: —

		Zanzibar township	Protective belt outside township
Drains		763	142
Tanks	***	4	1
Cesspits		25,199	
Sullage pits		4,211	=
Swamps and pools		118	478
Pools or excavations filled in		19	
Crab holes oiled and filled in		5,933	7
Crab holes found containing larvæ	***	3,777	
Dead crabs found after being poisoned		1,665	
Bush and undergrowth cleared (square yards)		1,720,930	782,765
Shells, coconut husks, tins, etc., removed		6,787	50,731
D.D.T. Briquettes used in cesspits		22	
Disused wells filled in		2	
Premises sprayed with D.D.T. Solution		537	9

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TINDSOUTT	OES CAUGHT ON	ADULT MOSQUITOES CAUGHT ON WEEKLY VISITS IN CONTROL STATIONS INSIDE ZANZIBAR TOWNSHIP	N CONTROL STATI	ONS INSIDE ZANZ	IBAR TOWNSHIL
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(Malaria (i.e., parasites present in blood): Malaria (i.e., parasite present in blood):

The following are the figures for the last seven years (Zanzibar only):-

IN-PATIENTS

1943 1944 1945 1946 1947 1948 1949 66 ... 73 ... 56 ... 27 ... 22 ... 13 ... 7

OUT-PATIENTS

99 ... 90 ... 64 ... 41 ... 38 ... 33 ... 12

INFECTIOUS DISEASES

The following is a table of comparison of the infectious diseases notified in 1946, 1947, 1948, and 1949:—

		1946	1947	1948	1949
Chicken-pox		102	195	44	421
Cerebro-spinal mening	itis	-	-	-	1
Diphtheria		2	5	7	4
Dysentery, amœbic		87	83	69	83
,, bacillary		23	15	38	14
Erysipelas		-	-	1	1
German measles		13	7	9	-
Leprosy		17	7	20	20
Measles		7	77	52	37
Mumps		16	2	4	40
Puerperal sepsis		_	1	1	_
Relapsing fever		53	3	1	2
Tetanus		-	-	2	-
Tuberculosis		101	120	125	168
Typhoid fever		8	9	13	12
Typhus fever		-	-	1	-
Undulant fever		-	-	1	-
Whooping cough		6	46	24	59

There was an epidemic of chicken-pox throughout both islands in 1949. The disease was of a mild type and no deaths were reported.

LICENSED PREMISES

All licensed premises continued to be annually inspected before the issue of licences were recommended by the Health Office. The co-operation of the Municipal Officer has enabled this important work to be carried out.

This work involved the inspection of 107 eating houses, 37 houses-let-inlodgings, 35 laundries, 10 bakehouses and 8 dairies.

GENERAL MEASURES OF SANITATION

(a) Sewage Disposal

There is little progress to report. Nightsoil is still disposed of in septic tanks, cess-pits and pit latrines.

It is however expected that work will soon start on the scheme to construct an adequate sewage system in Zanzibar town.

(b) Scavenging and refuse disposal

This service is under the direct control of the Medical Officer of Health for Zanzibar township. In Pemba the District Medical Officer, Pemba, is in charge.

Most of the refuse is disposed of by controlled tippings. This system which has been in force for many years has resulted in the reclamation of a considerable area of swamp land.

In Zanzibar township all public buildings, markets, hospitals, official quarters, etc., have been supplied with British standard type dustbins, and these have proved very satisfactory.

In the African location of Ngambo 68 empty colas drums were placed at various collecting parts but many of them were stolen.

Altogether 116,636 cart-loads of refuse were removed during the year and dumped in various low-lying areas.

CONTROL OF FLIES

Considering the density of the population in Zanzibar town and the unsatisfactory hygiene in the poorer areas it is surprising that flies are not a major menace.

Fly traps are extensively used and fly searchers are employed to detect breeding places, which are promptly dealt with.

IMMUNISATION AGAINST YELLOW FEVER

During 1949, 3,149 people were immunised against yellow fever. Yellow fever certificates issued were in accordance with the International Sanitary Conventions. In addition 156 people were immunised in the Pemba stations.

Also 210 persons were immunised against cholera and 100 persons against typhoid before proceeding overseas.

Housing and Town-Planning, Zanzibar Township

Inspections and recommendations were made in connection with the following applications made to the Joint Building Authority.

STONE BUILDINGS

Applications with plans:				1948	1949
Erection of new buildings				15	 23
Major alterations and additions to existing buildings	includ 	ing drai	inage	104	 115
Applications without plans:					
Alterations and additions				132	 256
Permits refused				8	 4
Notices served for unauthorised	work			9	 23
Notices served for dangerous stru	cture			102	 190

Ten prosecutions for dangerous structures were instituted resulting in 5 convictions, 1 withdrawal and 4 pending in court.

NATIVE TYPE BUILDINGS

		1948	1949
Erection of new huts		 166	 137
Reconstruction and extension of existing	huts	 584	 234
Repairs to existing huts		 634	 1,360
Notices served for unauthorised work		 23	 34
Notices served for demolition		 12	 6

RUINOUS OR INSANITARY HUTS DEMOLISHED

		1948	1949
Stone Town	 	9	 23
Ngambo	 	114	 80

FOODSTUFFS IN RELATION TO HEALTH AND DISEASE

All licensed premises dealing with food such as eating-houses, bake-houses, milk shops, etc., and markets were regularly inspected, and the necessary improvements effected where found necessary. One hundred and seventy notices were served in connection with these improvements.

Licensed hawkers of food were kept under strict observation, and all their utensils had to be approved and stamped by the Health Office staff before use. This work involved the checking of 215 hawkers.

One hundred and thirty-seven samples of milk were taken for analysis from the town dairies, and 106 from the milk vendors from the rural districts. In addition 22,341 lactometer tests were made at the milk depot, where milk brought from the rural districts is presented for inspection, and sealing of cans before sale.

Seventy-eight prosecutions for selling milk before the legal standard were undertaken. Out of these 16 cases were fixed for hearing in 1950. Sixty-two convictions were obtained (1 for a town dairy and 61 from rural milk vendors).

PEMBA

PUBLIC HEALTH IN PEMBA

This work was under the direct control of the District Medical Officer, Pemba.

Anti-Malarial Measures and Mosquito Control.—Little new work of a permanent nature was carried out but 6,469 trees were planted in a swampy area at Mkoani. 1,497 yards of earth drains were laid and existing drains maintained.

Records show that there was a considerable amount of mosquito breeding both of anopheles and culex in the townships of Wete, Chake and Mkoani. At the control station in these townships the following numbers of mosquitoes were caught:—

Anopheles	Aedes	Culex
111	 -897	 4,316

Sewage Disposal and Drainage.—18 W.Cs. were installed and 4 septic tanks constructed.

Scavenging.—22,311 carts of refuse were removed.

Infectious Diseases.—No serious epidemic occurred but 140 cases of chiken-pox were notified.

Inspection of Foodstuffs.—The following were condemned: Maize 664 lb., fish 190 lb., rice 2,000 lb., muhogo 320 lb., milk 78 gallons, meat 86 lb.

Housing.—Every effort was made to ensure that new buildings were erected in accordance with existing rules. The following is a summary of the work done:—

Total number	of buildin	ng applica	ations	307
Passed				235
Refused				63
Pending				8
Demolitions				13

PUBLIC HEALTH WORK IN RURAL AREAS

Trained Sanitary Inspectors were posted to the districts of Makunduchi and Mkokotoni in Zanzibar. These inspectors tour the villages and advise regarding maintenance of markets, refuse disposal, mosquito control, latrines, etc. They also give lectures at schools on the simpler aspects of Public Health.

SCHOOL MEDICAL AND DENTAL SERVICE

Owing to shortage of staff no regular school medical inspections were carried out during the year in Zanzibar. In Pemba the District Medical Officer examined the new entrants at the schools in Wete and Chake and Mkoani.

The school dental service was in abeyance owing to the absence of the Assistant Dental Surgeon.

AMBULANCE SERVICE

During the year 1,182 patients were collected from the rural districts of Zanzibar by ambulance. The total mileage run was 10,451 miles in Zanzibar and 2,810 miles in Pemba.

SECTION IV.—PORT AND AERODROME HEALTH WORK, AND ADMINISTRATION

Five hundred and twenty-seven ships and 1,448 dhows called at Zanzibar and were boarded for inspection. No ships or dhows were placed in quarantine.

Two ships were treated with sulphur dioxide and 22 ships were granted deratisation exemption certificates after inspection.

AIRFIELD

3,597 aircraft landed at Zanzibar airport during the year.

All passengers landing in Zanzibar from aircraft or ships are required to be in possession of valid vaccination certificates, and if coming from an endemic area yellow fever certificates as well.

QUARANTINE STATION

Extensive repairs were carried out to the buildings, the equipment and furniture was overhauled.

SECTION V.-MATERNITY AND CHILD WELFARE

Clinics for women and children were continued on both islands. In Zanzibar the Lady Assistant Medical Officer conducted the clinic at Zanzibar Hospital and visited the rural centres of Mkokotoni, Selem and Mwera once a week.

In Pemba clinics were held at Wete and Chake-Chake.

The following tables show the numbers attending the Women's Clinics during the past five years.

MATERNITY AND CHILD WELFARE.

	18	1945	31	1946	31	1947	15	1948	16	6761
	New cases	Re- Attendances	New cases	Re- Attendances	New cases	Re- Attendances	New cases	Re- Attendances	New cases	Re- Attendances
General cases Ante-natal Infant Welfare	7,945	28,262	11,327 415 283	34,190 1,112 940	11,900 485 248	34.214 1,599 1,125	12,644 396 364	38,646 1,338 1,036	11,712 423 362	36,769 1,151 790
Total	8,503	29,100	12,025	36,242	12,633	36,938	13,404	41,020	12,497	38,710
Zanzibar Rural Clinics : Mkokotoni	800 289 490	1,389	1,031 277 533	2,480 1,064 2,508	1,096 244 688	4,568 1,037 3,035	1,480 855 504	5,330 2,658 1,617	1,327 742 236	4,079 2,410 693
Total	676,1	5,154	1,841	6,052	2,028	8,640	2,839	9,605	2,305	7,182
Zanzibar Maternity Hospital: Total confinements	Hospital: 299		1 248		586		344	_	353	
Pemba Wete Clinic: Ante-natal cases Infant Welfare	156	175	105	493	123 84	516 450	136	554	131 65	509
Total	260	577	105	493	207	996	287	867	196	- 699
Pemba Chake Chake Climic: Out-patients Ante-natal cases Infant Welfare	Clinic: 3,275 66	14,617 397 1,275	3,627 90 214	12,739 499 1,571	2,917 62 224	7,848 129 749	3,565 68 224	7,317 223 1,049	4,116 70 139	8.639 256 651
Total	3,423	16,289	3,931	14,809	3.203	8.726	3,857	8,589	4,325	5,946
Wete Maternity Hospital: Total confinements	ital: 96	-	74		. 89		109		96	
Chake Chake Hospital: Total confinements	d: 63		70		20		55		45	

ANALYSIS OF MATERNITY CASES

Maternity Hospital, Zanzibar

Total confinements		***		353
Maternal deaths	14.4			6
Infant deaths	***			11
Premature deaths	***			13
Still born				14
Twins	***	***		8
Forceps deliveries				11
Cæsarian section				1
Retained placenta				3
T	Vete			
	rece			
Total confinements				95
Primipara		1		23
Multipara			-	72
Normal deliveries				80
Forceps deliveries				1
Abnormal presentation				7
Craniotomies	***			4
Maternal deaths				5
Infant deaths				1
Still births			V	13
Multiple pregnancy				2
The factorial in the same of				
Cl. al.	e Chak			
. Onak	в спак	в		
Total confinements				42
Primipara				17
Multipara				25
Normal deliveries				40
Forceps deliveries				2
Eclampsia				1
Maternal deaths				1
Infant deaths			***	1
Still births				4
Multiple pregnancy			***	2
multiple pregnancy		****	***	-

SECTION VI.—REPORT ON SPECIAL DEPARTMENTS

EYE CLINIC

The Pathologist was in charge of the eye clinic during the year. He was absent on leave for five months.

The following are the figures for cases treated:-

News cases	1			3,879
Re-attendances				24,811
	ates for	Governm	ent	
employment)		***	***	524
European cases				25
		Total		29,239
Refraction for glasses				85
Operations, major				42
,, minor		***		43
Cases admitted to hosp	oital	***		164

LABORATORY

Zanzibar

During the first four months of the year the Pathologist acted as Senior Medical Officer, and then proceeded on leave, the routine work of the laboratory being carried on by the Senior Laboratory Assistant.

The accommodation in the laboratory was improved by taking over an adjacent room for use as a sterilizing room. Minor improvements were also carried out in the post-mortem room.

The work of the Laboratory is briefly summarised as follows: -

The total number of examinations made	e was	25,324
Parasitological examinations		14,194
Bacteriological examinations		4,904
Serological examinations		2,008
Histological examinations		22
Medico-legal examinations		30
Post-mortem examinations		37
General (blood, bio-chemical, etc.)		4,116
Special (Aschein-Zondak and veterinar	y)	13
Total		25,324

Malaria

There was a considerable reduction in the number of positive blood films compared with previous years, no doubt on account of the drought.

	1947	1948	1949
P. falciparum	 1,861	 1,502	 1,044
P. vivax	 700	 525	 196
P. malariæ	 100	 44	 22
Undefined	 339	 198	 145
	3,000	2,269	1,407

Typhoid

Positive blocd cultures dropped to 6.5 per cent as compared with 46.7 per cent in 1948, when an infected ship arrived in the port.

Two isolations of Bacterium paratyphosum A were obtained but these also were from cases on board a ship, not local infections.

The demand from the hospital for the crude liver extract prepared in the Laboratory continues to increase and 123 litres were prepared as against 87 litres in 1948.

In addition 15 litres of sterile glucose in saline were prepared for the hospital, and a considerable volume of sterilisation was performed when their steriliser was out of action.

Sterile solutions were also prepared for use in the Eye Clinic.

Pemba: Wete and Chake Chake

The total number of examinations performed was: --

			Wete	Chake
Blood films			1,429	 1,474
Stool and urine			1,658	 1,521
Blood counts and	hæme	globin,		
estimation			659	 -
Smears, sputum, etc.	***		291	 233
			4,037	3,228

REPORT OF DENTAL SURGEON

The following is a summary of the work carried out by the Department during the year. It does not include patients treated in the hospital by the Dental Surgeon, e.g., fracture jaws, etc.

	Attend-	Extrac-		
	ances	tions	ings	ings
Officials and families	1,012	81	400	103
Native out-patients	5,864	6,085	-	-
Schools	18	24	9	-
Non-officials	503	58	197	58

Pemba

The Dental Surgeon visited Pemba Island three times during the year totalling 44 days in Pemba.

MENTAL HOSPITAL

The mental patients were moved from Ziwani to their new quarters at Holmwood in March. The design and layout of the new mental hospital which conforms to modern standards was appreciated by patients and staff. An improved dietary scale was introduced during the year. Our next task will be to improve the quality of the staff, the majority of the existing staff are illiterate.

The following figures show the number of patients treated:-

Remaining	on	31st	December,	1948		85
Admitted					***	69
Discharged						33
Deaths					***	6
Remaining	on	31st	December,	1949	***	115

WALEZO INSTITUTION

This institution which is under the control of the Sisters of the Roman Catholic Mission has accommodation for, (a) the old and infirm, (b) tuber-cular patients, (c) leprosy patients.

The following figures show the work done during 1949:-

Poor House

	Pauper Infirmary	T	uberculosis Asylum	
	Injirmary		asyoung	
Number	remaining 31st December, 1948		154	
Number	admitted during 1949	***	179	
Number	discharged during 1949		82	
	died during 1949		95	
Number	remaining 31st December, 1949		156	

Leper Settlement

Number remaining 31st December, 1948		47
Number admitted during 1949		13
Number discharged during 1949		5
Number died during 1949		3
Number remaining 31st December, 1949		52
Tuberculosis Asylum		
Number remaining 31st December, 1948		10
Number admitted during 1949		47
Number discharged during 1949	V	17
Number died during 1949		29
Number remaining 31st December, 1949	A	11

PRISONS

Zanzibar.—There were 937 new cases and 4,767 re-attendances at the Prison Infirmary during the year.

One hundred and seventy-three cases of malaria and 14 cases of amœbic dysentery were recorded. All new prisoners are medically examined and if necessary treated before being put to work.

The following is a summary of the work carried out:-

	Number of persons admitted	Da	ily average in prisons	. 1	Daily average on sick list
Zanzibar	 1,161		244.99		21.82
Pemba	 766		65.74		3.88

SECTION VII.—FINANCE

(a) Expenditure, Health Department

		£
Personal Emoluments		51,497
Other Charges:		
General Stores		2,204
Drugs, Dental and Surgical Requisites		8,123
Maintenance of Patients		13,681
Sanitation Labour		2,640
Miscellaneous Services		8,461
Total		86,606
(b) Expenditure, Municipality		
(b) Expenditure, Municipality		£
(b) Expenditure, Municipality Personal Emoluments		
(b) Expenditure, Municipality Personal Emoluments Other Charges:		£ 4,504
(b) Expenditure, Municipality Personal Emoluments Other Charges: Equipment and Stores		£ 4,504
(b) Expenditure, Municipality Personal Emoluments Other Charges:	ty 	£ 4,504

(c) Revenue

					£
Hospital Fees	and Sal	le of Drugs		***	2,661
Dental Fees					240
Contribution Quarantine	from Station	dependencie 	es tow	ards	1,512
			Total		4,413

SECTION VIII.—LEGISLATION AFFECTING THE PUBLIC HEALTH ENACTED DURING THE YEAR

Mental Hospital Decree, 1947:

Appointment of Mental Hospital.

The Public Health Decree, Cap. 60:

The Public Health (Appointment of Cemetery (Singalese) Order, 1949.

TABLES I AND II.

Return of Diseases and Deaths for the Year 1949

This table includes only those diseases which were diagnosed in hospitals under the charge of a medical officer or assistant medical officer.

DISEASES	Remaining in Hospital at end of Dec. 1938	Yearly Admissions	Total Cases Treated	Total Deaths	Remaining in Hospital on 31st Dec.	All Cases including both In and Out Patients	Total Cases Treated in 1948
1. Enteric Group—							
(a) Typhoid fever	1	11	12		2	19	37
(b) Paratyphoid fever							
2. Typhus fever			***				1
3. Relapsing fever 4. Undulant fever	***	* ***	***		***		***
5. Smallpox		***					
6. Measles	2	7	9		****	59	213
7. Scarlet fever							00)
8. Whooping cough 9. Diphtheria	1000	5	5	2	ï	89	92 5
10. Influenza—		,	,	-			
(a) With respiratory					4007		
complications		1	1			37	1,454
(b) Without respiratory complications	BARRIE S	5	5	THE REAL PROPERTY.	Bern B.	370	138
11. Cholera						310	
12. Dysentery—				11	1		The state of the state of
(a) Amœbie	2	60	62	2		106	89
(b) Bacillary		6	6			19 41	. 74 88
(c) Unclassified 13. Plague—	1	11	12			-11	00
(a) Bubonic							
(b) Pneumonic		***					
(c) Septicæmic						***	
14. Acute poliomyelitis	1000	ï	ï	ï		1	1
 Encephalitis lethargica Cerebro-spinal fever 		200					2
17. Rabies	100000						
18. Tetanus		9	9	7	1	12	18
19. Tuberculosis of the res-	4	106	110	16	8	250	232
piratory system 20. Other tuberculous dis-	*	100	110	10	0	230	202
eases	1	3	4			6	18
21. Leprosy		4	4	***		28	23
22. Venereal diseases—		53	53		3	577	568
(a) Syphilis (b) Gonorrhœa	3	114	117		4	843	1,264
(c) Other venereal dis-		***			1997		
enses		8	8			23	69
23. Yellow fever							
24. Malaria— (a) Benign tertian	1	16	17		1 10000	1.656	352
(b) Subtertian	5	307	312	11	7	2,431	1.903
(c) Quartan						8	32
(d) Unclassified		250	255	1	5	4,127	9,455
25. Blackwater fever 26. Kala-azar		1	2		***	3	6
27. Trypanosomiasis	1 500						
28. Yaws	1	62	63		5	3,953	3,608
29. Other protozoal diseases	. "	140	140		***	E 25.4	5 576
30. Ancylostomiasis	1	143 28	149 29	7	5	5,354 718	5,575
31. Schistosomiasis 32. Other helminthic diseases		3	3	1	ï	50	69
Car Contractiniting discusses		and a			A STATE OF		
Carried forward	34	1,222	1,256	48	42	20,792	25,957

TABLES I AND II.—(Contd.)

	DISEASES	Remaining in Hospital at end of Dec. 1948	Yearly Admissions	Total Cases Treated	Total Deaths	Remaining in Hospital on 31st Dec.	All Cases including both In and Out Patients	Total Cases Treated in 1948
	Brought forward	34	1,222	1,256	48	42	20,792	25,957
	Other infectious and/or parasitic diseases Cancer and other tumours	1	270	271 .	4	14	660	411
	(a) Malignant (b) Non-malignant	ï	18 27 6	18 28 6	2 2	1	27 96 14	42 132 6
5. 6.	Rheumatic conditions Diabetes		14 31	14 31			489 73	427 60
8. 9.	Scurvy Beri-beri Pellagra		2. 1	2 1	1		3 2	4 3
10.	Other diseases— (a) Nutritional (b) Endocrine glands and	2	49	51	12	1	298	652
1.	general Diseases of the blood and blood forming organs	4	27 124	27 128	26	2	168 1,568	361 1,232
2.	Acute and chronic poisoning	*	8	8		4	8	
14.	Cerebral hæmorrhage Other diseases of the nervous system	4	9	9 52	10	2	10 570	671
15. 16.	Trachoma Other diseases of the eye and annexa	1 4	250	3 254	1	 5	16 4,861	37 4,245
8	Diseases of the ear and mastoid sinus Diseases of the circulatory		33	33		1	1,091	1,182
io.	system— (a) Heart diseases	4	72	76	30	5	423	131
19.	(b) Other circulatory diseases Bronchitis		34 87	34 96	7 3	2 2	100 3,457	139 3,189
50.	Pneumonia— (a) Broncho-pneumonia (b) Lobar-pneumonia	3 10	58 374	61 384	6 39	1 14	143 525	137 699
51.	(c) Otherwise defined Other diseases of the respiratory system	4	23	23 121	7	6	4,489	6,263
52.	Diarrhœa and enteritis— (a) Under two years of age		6	6			95	115
53.	(b) Over two years of age Appendicitis Hernia and intestinal		50 13	51 13	2	1	588 24	687 12
55.	obstruction Cirrhosis of the liver	11 1	229 9	240 10	21 3	11	572 22	762 10
	Other diseases of the liver and biliary passages Other diseases of the	1	34	35	5	. 2	115	93
58.	digestive system Nephritis (all forms)— (a) Acute	3	217	220	1	5	10,310	10,085
	(b) Chronic		8	8	4		. 14	32
	Carried forward	98	3.473	3,571	236	122,	51,652	57,860

TABLES I AND II.—(Contd.)

				the way of the		-
Remaining in Hospital at end of Dec., 1948	Yearly Admissions	Total Cases Treated	Total Deaths	Remaining in Hospital on 31st Dec. 1949	All Cases including both In and Out Patients	Total Cases Treated in 1948
98	3,473	3,571	236	122	51,652	57,860
5	333	338	9	12	2,678	1,873
	512				100	100
2		70.00	***	i		103
	3	3	***		160	1
	49	49	4		68	156
0	150	154	10	1	163	196
2	102	104	10		100	100
89	1,155	1,244	21	58	17,042	20,418
	THE THE	-	+	NAME OF	1-60	
				The state of the s		10
	2					13
	1	1	1	***	No. of the last	1
						2
	95	05	10		163	233
	20	20	12		100	2.00
	1 239	Mary Sept 19	134			1

24	466	490	13	51	5,900	7,851
22	177	199	12	2	2,991	1,222
147 TB	/					
	335	335			1,327	1,609
1000						
- 03-50	111233	BEAL O				
1000	THE PERSON					
						100
	HAT THE	100	Description of	1000		
1 - 11	11-9-20	STATE OF THE PARTY	- 12-2-6			
242	6,228	6,470	318	248	-82,260	91,538
	98 5 2 89 24 22	98 3,473 5 333 2 57 3 49 2 152 89 1,155 2 1 25 25 24 466 22 177 335	98 3.473 3,571 5 333 338 2 57 59 3 3 49 49 2 152 154 89 1,155 1,244 2 2 25 25 24 466 490 22 177 199 335 335	98 3,473 3,571 236 5 333 338 9 2 57 59 3 3 49 49 4 2 152 154 10 89 1,155 1,244 21 1 1 1 25 25 12 24 466 490 13 22 177 199 12 335 335	98 3.473 3,571 236 122 5 333 338 9 12 2 57 59 1 49 49 4 2 152 154 10 1 89 1,155 1,244 21 58 2 2 1 1 1 25 25 12 24 466 490 13 51 22 177 199 12 2 335 335	98 3.473 3,571 236 122 51,652 5 333 338 9 12 2.678 2 57 59 1 102 3 3 160 49 49 4 68 2 152 154 10 1 163 89 1,155 1,244 21 58 17.042 1 1 1 2 2 1 1 25 25 12 163 25 25 12 24 466 490 13 51 5,900 22 177 199 12 2 2,991 335 335 1,327