Annual report / Medical Department, Fiji.

Contributors

Fiji. Medical Department.

Publication/Creation

Suva: Govt. Press, [1953]

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Colony of Fiji

COUNCIL PAPER No. 50.

ANNUAL REPORT

OF THE

MEDICAL DEPARTMENT

1952-53

Price, Sa. 64.

Government Press, Suva, Fiji

49 CP 54-825







Colony of Fiji

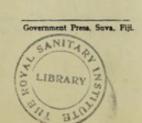
COUNCIL PAPER No. 50.

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OF THE

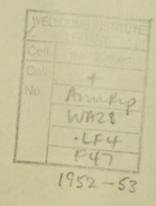
MEDICAL DEPARTMENT

1952-53



CONTENTS

| I-Administration- | | | | | |
|--|--------|--------|----|----|-----|
| Establishment and Staff | | | | | 1 |
| Appointments | | | | | 1 |
| Legislation | | | | | 1 |
| Finance | | | | | 1 |
| Colonial Development and Welfar | re Pro | ojects | | | 2 |
| Research | | | | | 2 |
| Medical Stores and Equipment . | | | | ** | 2 |
| | | | | | |
| | | | | | |
| | | | | | |
| II Ton Donne Henry | | | | | |
| II—The Public Health— General Remarks | | | | | 2 |
| a 1 11 Di | | | | :: | 3 |
| | | | | | 4 |
| | | | | | - 7 |
| | | | | | 4 |
| | | | | | 5 |
| | | | | | 6 |
| VI-Laboratory Division | | | | | 8 |
| | | ** | ** | | 8 |
| VIII-METEOROLOGY | | | | | 9 |
| | | | | | |
| | | | | | |
| | | | | | |
| Appendices to the Report— | | | | | |
| I—Departmental Establishment | | | | | 10 |
| II—Notifications of Infectious Disease | | | | | 11 |
| III—Returns of Vital Statistics | | | | | 14 |
| VI-Returns of Outpatients and Inpatier | nts | | | | 15 |
| V-(a) Fiji Leprosy Hospital, Makogai | | | | | 16 |
| (b) Leprosy Sub-Station, Suva | | | | | 27 |
| VI—Tuberculosis | | | | | 28 |
| VII—Mental Hospital | | | | | 30 |
| VIII-Pathological Laboratories' Division | | | | | 32 |
| IX-Returns of Diseases and Deaths | | | | | 35 |
| X-Mosquito and Filariasis Control | | | | | 45 |
| XI—Nutrition Section | | | | | 46 |
| XII—Central Medical School | | | | | 47 |
| XIII—Central Medical Research Library | | * | | | 48 |
| XIV—Meteorological Summaries | | | | | 50 |
| XV-Work of Local Health Authorities | | | | | 51 |



LEGISLATIVE COUNCIL FIJI

COUNCIL PAPER No. 50.

MEDICAL DEPARTMENT

(Consolidated Annual Report for 1952 and 1953.)

ADMINISTRATION

ESTABLISHMENT AND STAFF

MEDICAL DIRECTORATE

The Departmental Establishment is shown at Appendix I to this report. Dr. J. M. Cruikshank, C.M.G., O.B.E., Director of Medical Services, Fiji (also Inspector-General, South Pacific Health Service) proceeded on leave from 15th March, 1952 to 17th December, 1952.

APPOINTMENTS, ETC.

- 2. Dr. R. W. D. Maxwell to act as Inspector-General, South Pacific Health Service and Director of Medical Services 15/3/52
 - Dr. R. W. D. Maxwell, Senior Medical Officer, to be Deputy Director of Medical Services 14/9/52.
 - Dr. K. R. Steenson, Deputy Director of Medical Services retired on conclusion of leave 14/3/53.

LEGISLATION

- 3. Legislation of medical interest enacted was as follows:-
 - 1952: Legal Notice No. 35, amending Visitors' Rules, Levuka. Legal Notice No. 44, increasing Sanitary Service charges. Legal Notice No. 76, redefining an "Eating House" so as to include a licensed hotel.

 - Legal Notice No. 87, adding certain drugs to the Poison schedules.

 Legal Notice No. 142, deleting certain charges for disinfection of aircraft.
 - 1953: Legal Notice No. 116, prohibiting the carriage of water on any milk-delivery wagon or other milk vehicle.

FINANCE

4. Revenue and Expenditure of the Department:-

| | 1952 | 1953 |
|------------------------------------|-----------------|-------------|
| Gross Expenditure | £631,676 | £655,575 |
| Revenue | 59,275 | 76,926 |
| Nett Expenditure | 572,401 | 578,649 |
| Percentage of Colony's Expenditure | 13 per cent | 13 per cent |
| Expenditure per head of population | 36s. 7d. | 38s. 8d. |

The following table shows the expenditure on Medical and Health Services per head of the population, over the past 17 years.

| Year | Post | | | Total Population | Expenditure per head |
|------|------|------|------|---------------------|-------------------------|
| 1936 | | | | 201,086 | 8s. 1d. |
| 1939 | | | | 215,030 | 10s. 7d. |
| 1942 | | | | 233,895 | 10s. 1d. |
| 1944 | | | | 246,485 | 12s. 1d. |
| 1945 | | | | 254,676 | 14s. 2d. |
| 1946 | | | | 260,468 | 16s. 6d. |
| 1947 | | | | 269,274 | 20s. 8d. |
| 1948 | | | | 277,372 | 24s. 4d. |
| 1949 | | | | 284,955 | 25s. 0d. |
| 1950 | | | | 293,764 | 27s. 2d. |
| 1951 | | | | 301,959 | 32s. 10d. |
| 1952 | | | | 312,678 | 36s. 7d. |
| 1953 | | | | 320,801 | 38s. 8d. |

COLONIAL DEVELOPMENT AND WELFARE PROJECTS

5. Central Medical School-The new building was completed towards the end of 1953 and was graciously opened by Her Majesty the Queen on 17th December, in the presence of a large gathering. Appendix XIII.

Tuberculosis Survey-This work was continued during the period and is described under Appendix VI to this Report.

Central Medical Research Library-This Library was taken over by the Fiji Government as a departmental function in 1951. Its Reports for 1952 and 1953 are added at Appendix XIV.

RESEARCH

 Nutrition—Two dietary surveys have been carried out at the Fijian village of Naduri near Sigatoka on Viti Levu.

Samples fo coconuts at varying stages of development have been sent to the Home Science School, Dunedin, New Zealand, for analysis. Appendix XII.

Hetrazan (Diethylcarbamazine)—Experiments in mass administration of Hetrazan were carried out during 1953 in selected areas, the main object being to determine the minimum effective dosage. The whole population of each area had blood examined for microfilariae and all positives were treated in three groups, as follows:—

Beqa Island-172 positives given 3 x 50 mgm. three times daily for seven days.

Ra Province—242 positives given three doses of 1 x 50 mgm. during the day on one day each month.

Tailevu Province-245 positives given 3 x 50 mgm. three times daily for three days.

In all cases blood examinations were repeated every six months. Resultant data are shown at Appendix XI, and further large scale experiments are to be made in 1954.

Malaria Vectors—Squadron-Leader Laird, D.Sc., of the Royal New Zealand Air Force, has continued his work on the investigation of malaria vectors of the Pacific Islands. He has been afforded bench space and laboratory facilities at the Pathological Laboratory in Suva. His reports are submitted to New Zealand and no information as to findings or progress of this work has yet been made available to this Department.

Demography—Research has continued into the demography of Fijians; which has been in progress for a number of years. The information amassed has proved of distinct advantage in connexion with the leprosy and tuberculosis registers and control programmes. Interesting data on the epidemiology of leprosy are being observed. These demographic studies should be of further value if the proposed mass anti-yaws campaign proceeds.

MEDICAL STORES AND EQUIPMENT

7. Issues from the Government Pharmacy and Medical Stores have been:-

| | | 1952-1953 Medical Stores, to Nearest € Value | | | | | | | |
|---------------------------|-------|--|-----------|-------------|------------|--------|--------|--|--|
| | | Drugs & In | struments | Clothing as | nd Bedding | Total | | | |
| | | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | | |
| The section of the second | 10000 | ٤ | 6 | ٤ | 6 | £ | £ | | |
| Cash Sales | | 469 | 407 | | | 469 | 407 | | |
| Special Hospitals | | 9,979 | 10,058 | 4,148 | 4,169 | 14,127 | 14,227 | | |
| General Hospitals . | | 22,473 | 22,821 - | 7,061 | 7,019 | 29,534 | 29,840 | | |
| Rural Hospitals | | 4,670 | 4,172 | 1,212 | 1,844 | 5,882 | 6,016 | | |
| Rural Dispensaries | | 5,095 | 4,600 | 34 | 57 | 5,129 | 4,657 | | |
| Health Sisters | | 1,068 | 1,668 | 272 | 361 | 1,340 | 2,029 | | |
| Nurses | | 2,231 | 2,504 | 755 | 758 | 2,986 | 3,262 | | |
| Missions | | 77 | 105 | 11 | | 88 | 105 | | |
| Other Medical | | 105 | 292 | 74 | 73 | 179 | 365 | | |
| Other Departments | | 1,651 | 873 | 137 | 56 | 1,788 | 929 | | |
| | | 47,818 | 47,500 | 13,704 | 14,337 | 61,522 | 61,837 | | |

THE PUBLIC HEALTH

GENERAL REMARKS

The Director of Medical Services is Chairman of the Central Board of Health which controls and co-ordinates the public health activities throughout the Colony.

There are 22 Local Health Authorities constituted under the Public Health Ordinance (1936) whose duties are concerned with carrying into effect this Ordinance and Regulations made thereunder. The Local Authorities also take charge of the local aspects of Town Planning and Sub-division of lands in their own areas.

Each District Medical Officer in the three Districts into which the Colony is divided is a Medical Officer of Health to the Local Authorities within his District; and in this capacity he is assisted by a trained staff of Health Inspectors, Health Sisters, Assistant Health Inspectors, Assistant Nurses, and other junior staff.

The Colony is divided into 48 areas each having an Assistant Medical Practitioner at a Rural Hospital or Rural Dispensary. He is responsible to his Medical Officer of Health in matters of communicable diseases. Each of the three Districts forwards to headquarters a weekly statement of the incidence of notifiable infectious diseases within its boundaries. Guidance is then given when needed by headquarters so that preventive or controlling measures may be as thorough as possible.

Fiji as a participating member of the South Pacific Health Service takes part in the monthly telegraphic exchange of epidemiological information among territories concerned.

COMMUNICABLE DISEASES

9. General tables of the incidence of these diseases is given at Appendix II to this Report. Influenza—This showed some decline during the period under review, and it appears that the pandemic is on the wane. The reported cases dropped from 4,778 to 3,179.

Enteric group of diseases—The fall in the incidence of these diseases was gratifyingly continued, the number of cases among Fijians being less than one-quarter, and among non-Fijians less than one-ninth, of that in 1949. This reduction is attributed to perseverance in the Colony-wide anti-typhoid inoculation campaign, and improvements effected in general sanitation.

Dysenteries—The fall in reported cases of non-amoebic dysentery was continued, total cases being less than one-third of those in 1949. Notification of dysentery as amoebic is confined to those cases in which diagnosis is bacteriologically confirmed, so that positive cases do not appear in the returns from the remoter rural areas.

Infantile diarrhoea is discussed in paragraph 11 below.

Pertussis—There was a notable decline in the incidence of whooping cough, to less than one-half of the 1952 figure. It would therefore appear that this disease, which has shown a recurrence on an eight-year cycle, is retreating.

Yaws—This remains a serious problem in all areas among the indigenous Fijians. The disease was for many years kept under partial control by expensive injections of organic arsenicals, though many cases appeared to be resistant to this treatment. After the late war, the high cost of arsenicals compelled the Department to attempt a substitution with bismuth salts, but this scheme has proved unacceptable to the people, on account of unpleasant side-effects and the great pain that has often accompanied intramuscular injection of "Sobita". As a result, patients have failed to report for yaws, or failed to return after a single injection. It has been most notable that where the new preparations of penicillin have been on trial, results have been so striking that patients have appeared from distant areas at a clinic where it was known penicillin was on clinical trial.

At the invitation of the Government, Dr. Donald Huggins of the World Health Organization Regional Office at Manila, made a visit of exploration in November and December 1953, and enquired into the yaws problem in Fiji. It is hoped that an arrangement may be made for the acceptance of World Health Organization assistance in a Colony-wide programme of penicillin therapy against yaws in 1954.

Tuberculosis is discussed in Appendix VI of this Report.

Hookworm—The incidence of this disease remains low: the reported figure being less than 200 cases for the whole Colony.

Dengue Fever—After a slight rise to 135 in 1952, the number of cases fell to 60 in 1953. This reflects the intensive anti-mosquito measures in force throughout the Colony.

Venereal Diseases remain as before at the very low figure of around 200 for gonorrhoea and 20 for syphilis.

Leprosy is discussed at Appendix V to this Report.

10. The table below shows the trends in eleven notifiable diseases for the past five years:-

| | | 1949 | 1950 | 1951 | 1952 | 1953 |
|------------------|--------|-------|-------|-------|-------|-------|
| Dysentery | | 655 | 403 | 303 | 267 | 243 |
| Enteric group | | 223 | 207 | 111 | 82 | 35 |
| Gonorrhoea . | | 260 | 297 | 232 | 208 | 220 |
| Hepatitis, infec | ctious | 13 | 32 | 25 | 41 | 29 |
| Infantile diarri | | 798 | 918 | 620 | 750 | 2,197 |
| Influenza | 2.0 | 3,566 | 5,293 | 3,280 | 4,478 | 3,179 |
| Leprosy | | 46 | 39 | 49 | 33 | 40 |
| Pertussis | | 350 | 114 | 234 | 773 | 245 |
| Syphilis | | 54 | 27 | 23 | 21 | 23 |
| Tetanus | | 30 | 27 | 31 | 38 | 33 |
| Tuberculosis . | | 448 | 373 | 234 | 453 | 498 |

It will be noted that there has been a steady fall in the number of cases of dysentery during this period. The marked decline in diseases of the typhoid group is attributable to the intensification of inoculation campaigns throughout the Colony. Notifications of venereal diseases have remained remarkably constant, as has leprosy.

 A division of the intestinal diseases among the indigenous and non-indigenous population is made in the table below.

| in the table | belo | | 1949 | 1950 | 1951 | 1952 | 1953 |
|----------------------------------|--------|------|------------|------------|------------|------------|--------------|
| Dysentery- Fijians Others | -:: | | 453 402 | 80 323 | 33 116 | 81 186 | 80 163 |
| Enteric Gr Fijians Others | oup— | -: | 87 136 | 100 106 | 36 75 | 31 51 | 20 15 |
| Infantile I Fijians Others | Diarrh | oea— | 511 287 | 680 238 | 474 136 | 455 295 | 1,562 635 |

12. From this table it is concluded-

(a) that the general programme of health education and sanitary improvement was more effective among the communal Fijians than among the individually-dwelling other people, since the dysentery figures showed a greater reduction among Fijians.

(b) that the anti-typhoid inoculation campaign has given a high degree of protection to

all races equally;

(c) that neither general nor special measures protected any race against a widespread epidemic of infantile diarrhoea in 1953, though Fijians were relatively more affected.

MOSQUITO AND FILARIASIS CONTROL

13. A report on this Division is included at Appendix X to this Report. It is noteworthy that a maintenance-dose of 50 mgm. (one tablet) of Hetrazan per month has been found sufficient to keep filariasis (as measured by the average microfilarial count per c.c.) under satisfactory control in a population exposed to constant re-infection.

VITAL STATISTICS

14. The Registrar-General's statement of population for 1952 and 1953 are given in Appendix III. The average increase in population of the Colony for the years 1936-1946 is estimated at 6,126 per annum: while for the years 1946-1953 the figure is 8,632.

| The state of the s | - | | | | | | |
|--|----------|--------|--------|---------|---------|-----------|----------------|
| The average annual incr | ease for | the to | wo maj | or race | s for t | he period | 1946-1953 is:- |
| Fijians | | | | | | | 3,981 |
| Indians . | | | | | | | 5,097 |
| The rates of natural inc | | | | | | | ny were:- |
| 1951 | | | | | | | |
| | | | | | | 28·17 pc | |
| 1953 | | | | | | 25.98 pe | er mille |
| Among the crude birth | | | | | | | |
| Among the crude birth | ates in | ay be | | Crude B | | | |
| | | 19 | 950 | 195 | | 1951 | 1953 |
| Fijians | | | | | 12 | 36-67 | 35.18 |
| Indians | | | | | | 44-69 | 46.08 |
| Total Population | | | -20 | | 88 | 40-02 | 40-32 |
| The General death rates | | | | | | | |
| Fijians | | | 63. | | | | 10-58 |
| Indians . | | | | | | | 8-12 |
| The Infant mortality ra | | | 91 | - 3300 | 1000 | | |
| The Imant mortanty is | ites we | | | | | 1952 | 1953 |
| Fijians | | | | | | 79 | 60 |
| Fijians Indians . | | | | | | 51 | 48 |
| THURST I | | 1000 | | | | | 10 |

HYGIENE AND SANITATION

ADMINISTRATION

15. The administration of the Public Health Ordinance of 1936 is vested in the Central Board of Health and by that Board delegated to 22 Local Health Authorities. Advisory functions are shared between the Director of Medical Services and the Central Board of Health, which body receives reports from, and where necessary directs the activities of, the Local Health Authorities.

16. Port Health and Quarantine activities in the capital city of Suva are in charge of the District Medical Officer, Southern, who, as chief Quarantine Officer, is responsible under the Quarantine Ordinance for that work. All Medical Officers in rural areas are Medical Officers of Health to the Local Health Authorities of the sanitary districts in which they are stationed. Ten Health Inspectors with full qualifications, and 23 Assistant Health Inspectors (locally trained) carry out local duties under the Ordinance, while the Chief Health Inspector, stationed at headquarters, is also Secretary to the Central Board of Health. Public health activities are also carried out by 11 Health Sisters and their staff of locally-trained Assistant Nurses.

17. There are 22 Local Health Authorities in the Colony, and the minutes of 102 meetings in 1952, and 106 in 1953, were forwarded to the Central Board of Health. The Urban Authorities of Suva and Lautoka, the Township Authorities of Levuka and Nausori, and the Rural Authority of the Rewa District, met monthly; the others at irregular intervals as necessary. The Central Board of Health is itself by statute the Health Authority for the special area covered by the International Airport at Nadi on Viti Levu.

18. The Return of the work done by all Local Health Authorities for each of the years now reported on, includes the following figures of interest:—

| | 1952 | 1953 |
|-------------------------------|------------|--------|
| General Sanitary Inspections | 64,031 | 56,766 |
| Sanitary defects remedied | 41,243 | 19,985 |
| Written notices issued | 3,219 | 3,957 |
| Closing Orders issued | 172 | 324 |
| Demolition ordered | 48 | 118 |
| Buildings demolished | 93 | 184 |
| Food premises inspected | 5,566 | 6,879 |
| Improvements effected | 230 | 1,727 |
| Foodstuffs condemned, in lbs. | 14,367 | 46,363 |
| Food samples taken | 357 | 452 |

19. Supervision of New Buildings—The standard of new housing in Township and suburban areas has continued to rise, and some need is now felt for technical (engineering) advice by Local Authorities unable to scrutinize major works now being proposed for erection in their areas. Every new building, where a piped water supply exists, has a septic tank system of sewage-disposal, and concrete is in large measure replacing timber frame construction in buildings.

| | 1952 | 1953 |
|---------------------------|--------------|----------|
| New applications received | 1,133 | 1,881 |
| Declared value | 4631,213 | £858,101 |

20. Legal Proceedings were as follows:-

(b) F

(a) For offences under the Public Health Ordinance:-

| | | | | | 1952 | 1953 |
|-----------------------|------|------|--------|--------|------|------|
| Cases taken to Court | | | | | 23 | 61 |
| Convictions obtained | | | | | 21 | 59 |
| Penalties imposed | | | | | £62 | £149 |
| or offences under the | Pure | Food | Ordina | ance:- | | |
| | | | | | 1952 | 1953 |
| Cases taken to Court | | | | | 22 | 39 |
| Convictions obtained | | | | | 19 | 37 |

21. Sewage Disposal—Septic Tanks throughout the Colony are required to be constructed according to approved designs. Reinforced cement latrine-slabs are manufactured in Suva by the Medical Department and sold at cost-price in all areas.

| the comment of the co | | 1952 | 1953 |
|--|----|---------|------|
| Septic Tank proposals passed | 0. | 42 | 58 |
| Latrine-slabs sold | | 390 | 267 |

22. Garbage Disposal—There is an organized collection of household and business garbage in 14 sanitary districts, of which one extended its area of service in 1953. About 6,000 premises are now served by official garbage collections.

| 23. Rat destruction- | | 1952 | 1953 |
|-------------------------|---------|--------|-------|
| Number of traps set | | 11,988 | 4,781 |
| Number of rats caught | | 3,640 | 934 |
| Rats sent to laboratory | 1.2 | 89 | 48 |

No rats were found to be infected with plague.

Penalties imposed ...

24. Water-supplies—These continued to give satisfaction, and no cases were reported of disease attributable to water-borne infections.

| | | 1952 | 1953 |
|--------------------------|---|---------|------|
| Number of samples taken- | - | | |
| Bacteriological test . | | 152 | 104 |
| Chemical test | | | 55 |
| Sea water (public baths) | | 45 | 13 |

SEAPORT AND AIRPORT HEALTH AND QUARANTINE

25. Suva, Lautoka and Levuka are the three permitted Ports of Entry for overseas ships, with Suva and Lautoka the only permitted Ports of Entry from malarial regions. Aircraft come to the International Airport at Nadi, with that at Nausori for emergency purposes, while flying boats enter at the station of the Royal New Zealand Air Force at Laucala Bay, Suva.

26. During the period under review the following were the numbers concerned:—

| | | | 1952 | 1953 |
|------------------------------|--------|--------|-------|-------|
| Ships given pratique | | 2. | 142 | 194 |
| Landing passengers | | | 1,974 | 1,954 |
| Aircraft given pratique | | | 980 | 921 |
| Landing passengers | | | 6,655 | 7,953 |
| Overseas vessels fumigated | | | 16 | 7 |
| Local vessels fumigated | | | 75 | 50 |
| Aircraft treated with aerose | ols | | 379 | 316 |
| International Deratting Cer | rtific | ates · | 16 | 11 |
| Deratting Exemption Certi | ficat | es | 1 | 3 |

27. The International Airport at Nadi, some 130 miles by road from the capital, handled the bulk of the air traffic. There is stationed there a Medical Officer of Health and a Health Inspector with Assistants, who carry out the general sanitary measures of this airport. Strict precautions are taken at Nadi and at Laucala Bay against the accidental introduction of malaria vectors by aircraft.

28. The Quarantine Islands of Nukulau and Makuluva, some ten miles from Suva, are maintained by the Department under permanent resident caretakers, supplied by regular visits of the quarantine launch from Suva.

HOSPITALS AND DISPENSARIES

| | HOSPITALS AND DISPEN | AIME | _ | |
|-----|--|---|---|-----------------|
| 29. | Disposition of Hospitals— | | | Beds |
| | Colonial War Memorial Hospital, Suva | | | 275 |
| | Tamavua Tuberculosis Hospital, Suva | | | 300 |
| | Mental Hospital, Suva | | | 100 |
| | Fiji Leprosy Hospital, Makogai | | | 750 |
| | District Hospitals— | | | |
| | Lautoka | | | 150 |
| | Labasa | ** | | 50 24 |
| | Levuka | | *** | 24 |
| | Subsidized Hospitals— | | | 0.4 |
| | Methodist Mission Hospital, Ba Nurse Morrison's Maternity Home, S | | | 24 8 |
| | Waiyevo Cottage Hospital, Taveuni | | | 3 |
| | Private Hospital, Colonial Sugar Refining Cor | | | 6 |
| | Rural Hospitals— | | | |
| | Wainibokasi | | | 45 |
| | Waiyevo, Taveuni | | | 40 |
| | Vunidawa | | | 28 |
| | Penang, Rakiraki, Ra | ** | *** | 27 25 |
| | Nadi | | | 25 |
| | Nailaga, Ba | | | 22 |
| | Savusavu | | | 20 |
| | Vunisea, Kadavu | | | 16 |
| | Lomaloma, Lau Nabouwalu, Bua | | | 16 14 |
| | Rotuma | | | 12 |
| | Lakeba, Lau | | | 8 |
| | Matuku | | | 6 |
| | Total number of beds available | | | 1,994 |
| See | Appendix V for details of outpatients. | | ** | 1,001 |
| | Appendix VI for details of inpatients. | | | |
| 000 | appendix va to accuse or inputerior | | | |
| | | | | |
| 30. | Disposition of Urban and Rural Dispensaries- | | | |
| 30. | In Suva— | | | |
| 30. | In Suva— Suva Gaol | | | |
| 30. | In Suva— Suva Gaol Samabula. | | | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar | ry. | | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of | ry. ficer, Na | | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of Beqa Island | ry. ficer, Na Nausori | | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of | ry. ficer, Na Nausori Navua | | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of Beqa Island Combined Schools, at Lodoni Korovou, Tailevu North Lodoni | ry. ficer, Na Nausori Navua Nayavu Serua Is | Clinic | |
| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of Beqa Island Combined Schools, at Lodoni Korovou, Tailevu North Lodoni Lomanikoro | ry. ficer, Na Nausori Navua Nayavu Serua Is Viria | Clinic | |
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| 30. | In Suva— Suva Gaol Samabula. Tamavua Outpatient (General) Dispensar Southern District (under District Medical Of Beqa Island Combined Schools, at Lodoni Korovou, Tailevu North Lodoni Lomanikoro Mokani Namosi. | ry. ficer, Na Nausori Navua Nayavu Serua Is Viria | Clinic | |
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See Appendix IV for details of outpatients.

FIJI LEPROSY HOSPITAL, MAKOGAI

31. Dr. C. J. Austin, C.B.E., M.B., Ch.B., the Medical Superintendent conducted a leprosy survey in the British Solomon Islands Protectorate from the 1st January to the 10th March, 1952, for which funds were provided by the South Pacific Commission.

The Fiji Regulations controlling the discharge of patients have been relaxed to the extent that one year of surveillance of inactive cases at Makogai is now regarded as sufficient, instead of the two years originally demanded by statute. This concession, considered to be justified by the success of modern drugs and by the rigid follow-up system under the Leprosy Registry, is however still to be regarded as experimental. A Medical circular, issued to all Medical Officers and Assistant Medical Practitioners in August 1952, pointed out that the reduction of the period of surveillance demanded increased care on the part of all concerned in the periodic examinations of discharged patients, and insisted that bacteriological as well as clinical tests should applied be in every case.

Dr. C. J. Austin, C.B.E., proceeded on preretirement leave in 1953. The loss of Dr. Austin's capable administration and specialist knowledge of leprosy has been keenly felt after 26 years in the Colony. During the 23 years which he had been Medical Superintendent much is also owed to Mrs. Austin for her whole-hearted contribution toward the congenial atmosphere prevailing at Makogai. During Dr. Austin's tenure of office he was ably assisted by the Rev. Mother Agnes, M.B.E., who retired after 36 years of outstanding administrative perception. The daily care of the patients is in the hands of the Sisters of Mary who so devotedly serve this cause. Dr. Austin was promoted to be a Commander in the Order of the British Empire in 1953 and the French Government has also awarded to Dr. Austin the Medaille d'Or d'Epidémies for outstanding medical services. The Rev. Mother Agnes, M.B.E., was the recipient of the Medal of the Legion of Honour, from the Government of France. This was presented by the Commander of the French Sloop Tiare which visited Fiji in 1953. Dr. W. H. Conran acted as Medical Superintendent for the period of the 2nd March to the 8th July, 1953. Dr. W. H. McDonald assumed duty on the 21st July, 1953.

The Fiji Leprosy Hospital on the island of Makogai is also available for patients from Western Samoa, Eastern (American) Samoa, the Cook Islands, Niue, Tonga, the Gilbert and Ellice Islands Colony and New Zealand. All active cases are compulsorily segregated on this island and discharge is controlled by strict criteria of inactivity. There is a carefully controlled follow-up of discharged patients, and the percentage of readmissions has been low.

The New Zealand and Fiji Lepers' Trust Boards—The New Zealand Lepers' Brust Board makes funds available annually for the treatment and comfort of leprosy patients in the various South and West Pacific Island Territories. In respect of the patients at Makogai the New Zealand Lepers' Trust Board, makes an annual allocation of funds which are dispensed by the Fiji Lepers' Trust Board which is a statutory body under the chairmanship of Sir Henry Scott, Q.C. allocations to the Fiji Lepers' Trust Board amounted to £7,935 in 1951, £7,825 in 1952 and £4,408 in 1953. Bursaries have been provided to enable medical officers from the various territories to visit Makogai for study purposes. Bursaries were granted to a medical officer from Netherlands New Guinea on behalf of the South Pacific Commission, and a medical officer and Assistant Medical Practitioner from Western Samoa. A musical band has been formed recently, the instruments for which were purchased from funds provided by the Lepers' Trust Board. Outside school hours the children indulge in sport including cricket and football; the girls receive training in needlework and handicrafts. Through the courtesy of the welfare officer of the R.N.Z.A.F. squadron stationed in Fiji, a Boy Scout troop has been formed. Funds have been approved for the purchase of electrical therapy equipment to aid in the restoration of functions which have become impaired as a result of this disease. During the past three years a guest house was constructed for use by members of the New Zealand and Fiji Lepers' Trust Boards and doctors who come to Makogai to gain experience, and New Zealand visitors to Makogai. From the Board's funds the Sisters quarters at Makogai were enlarged and improvements to the Leprosy Sub-station in Suva were effected. The Sub-Station is a transit unit where new patients are received pending confirmation of diagnosis and transfer to Makogai. A separate section of this unit is reserved for patients discharged from Makogai, awaiting transportation to their home territory. Many other amenities have been provided, not least of which is a building to accommodate a technical school with appropriate equipment for the training of young men in carpentry, joinery, automobile mechanics, electrical wiring, etc. This building will be opened in 1954.

The government of Fiji and New Zealand contribute annually to a building and replacement fund. The former electrical power supply has already been replaced by larger generators, and plans have been made for the improvement of the present water supply. With the assistance of a grant from United Kingdom Colonial Development and Welfare Fund, new quarters, including kitchen, for 100 Indian patients are nearing completion. Works scheduled to commence in 1954 include a new school for the children of labourers engaged in growing foodstuffs and other activities for the hospital and residential quarters for Assistant Medical Practitioners who receive training at Makogai as part of the medical curriculum of the Central Medical School.

A report in detail of the Central Leprosy Hospital at Makogai and the Leprosy Sub-Station at Korovou, Suva is contained in Appendices V (a) and V (b).

TUBERCULOSIS

32. The preliminary tuberculosis survey in Fiji which was commenced in 1950 was completed in 1953. Full use was made of the Colony's fixed and transportable mass miniature photofluoroscopic X-ray equipment together with Mantoux testing. The transportable X-ray equipment together with vehicles was a gift from the Fiji War Memorial Anti-Tuberculosis Trust Fund. Opportunity was taken during the survey to administer B.C.G. vaccine to negative reactors. A grant from the United Kingdom Colonial Development and Welfare Funds met the cost of the survey in Fiji and a grant is available for a tuberculosis survey in the Western Pacific High Commission territories which is to be undertaken in the British Solomon Islands Protectorate and the

Gilbert and Ellice Islands Colony during 1954 and 1955. Assistant Medical Practitioners specially trained in tuberculosis will conduct the survey in the Western Pacific High Commission territories. Dr. L. G. Poole, Tuberculosis Control Officer, Fiji, is available for consultations for these projects. Dr. Poole in 1950 and 1951 made an investigation of the problems associated with tuberculosis control in the above two territories. Assistant Medical Practitioner Peni Vuiyale who has been especially trained in this field undertook a preliminary survey of tuberculosis in the British Solomon Islands Protectorate in 1952.

A report in detail of the work undertaken at Tamavua Tuberculosis Hospital and the Tuber-

culosis Survey is contained in Appendix VI.

MENTAL HOSPITAL

33. Indian patients represent more than 50 per cent of the admissions to the Mental Hospital. The predominating disorders are Manic Depressive, Schizophrenia, Senile Dementia. The hospital is visited at quarterly intervals by a Board of Visitors. The Mental Hospital is located in Suva, and the daily average of patients is 115. Further details regarding the Mental Hospital are contained in Appendix VII.

Assistants, who undertake the procedures at the branch laboratories. They are supervized by regular visits from the Pathologist in charge of the Central Laboratory.

A detail report of the work undertaken in the laboratories division is contained in Appendix VIII.

TRAINING

35. Central Medical School—Dr. A. S. Frater, the Principal of the Central Medical School, resigned with effect from the 1st August, 1953, and Dr. T. A. Doran, Medical Officer in Charge of the Colonial War Memorial Hospital, was appointed to act as Principal until the completion of his

agreement in 1954.

The Advisory Board consists of the Director of Medical Services, Fiji (who is also Inspector-General, South Pacific Health Service (Chairman)); the Director of Education, Fiji, the Secretary for Fijian Affairs; the Deputy Director of Medical Services, Fiji; the Medical Officer in Charge of the Colonial War Memorial Hospital, Suva; and the Principal. The Chief Secretary, Western Pacific High Commission, is also a member of the Board, but due to the transfer in December, 1952 of the headquarters of the Western Pacific High Commission to Honiara in the British Solomon Islands Protectorate, this officer's functions as a member of the board have been delegated by that Administration to the Inspector-General.

The Academic Board consisting of the Principal (Chairman), the Medical Officer in Charge of the Colonial War Memorial Hospital, the Physician Specialist, the Surgeon Specialist, the Medical Officer of Health and the Senior Dental Officer meets quarterly to keep the curriculum constantly

under review and to assess the progress of the students.

Assistant Medical Practitioner is the designation given to a graduate in medicine from the Central Medical School. Dental graduates are Assistant Dental Practitioners. In the South Pacific Health Service territories these graduates do not engage in private practice but are full-time members of the medical staffs of the participating territories. Until 1949 the average total intake from all territories was 40 students. To supply replacements due to retirement, illness, additional dispensaries required for an increasing population and Assistant Medical Practitioners receiving post-graduate training in special fields of medicine, the enrolment was doubled in 1950 and again doubled in 1951. This together with the enrolment in 1951 of 37 medical and 29 dental students transferred from the Guam Medical School in the United States Trust Territory of the Pacific placed a considerable strain on the teaching and accommodation facilities pending the opening of the new Central Medical School building which will now be ready for occupancy next year.

The additional burden on the school was greatly alleviated by the High Commissioner of the United States Trust Territory of the Pacific seconding Dr. H. L. Cloud, Dental Educator to the school during 1951 and 1952. Dr. Cloud was relieved in 1953 by Dr. Earl Udick and Mrs. Udick both fully qualified dentists. These officers also served as Liaison Officers between the School and the United States Trust Territory. This valuable assistance is greatly appreciated and through their efforts a sound training in dentistry was ensured as a Senior Dental Officer Mr. D. M. Ellerton was not appointed to the Fiji establishment until June 1953.

During the visit of Her Majesty Queen Elizabeth II and His Royal Highness the Duke of Edinburgh to Fiji, the new Central Medical School building was officially opened by the Queen on the 17th December, 1953. The building is of reinforced concrete, three stories in the front and two stories in each wing. It contains offices, lecture rooms, laboratories, library, common room, recreation room, dining room, a modernly equipped kitchen and sleeping accommodation for approximately 150 students.

The Colonial War Memorial (general) Hospital (250 beds); the Tamavua Tuberculosis Hospital (300 beds); the Mental Hospital (100 beds) and the Central Leprosy Hospital, Makogai approximately 800 patients, provide ample clinical material for the students and full use is made of the colony's health departments, namely Tuberculosis, Leprosy, Yaws, Mosquito and Filariasis Control, Sanitary Engineering, School and Welfare Clinics, Nutrition and Quarantine services

for training in preventive medicine, environmental hygiene and epidemiology.

A four year course in dentistry are also provided at the Central Medical School. Dental training and the dental services of the colony are under the direction of Mr. D. M. Ellerton, Senior Dental Officer, who is assisted by Ratu Vosailagi, Bachelor of Dental Surgery and Dr. E. W. Udick, Dental Surgeon on loan from the United States Trust Territory of the Pacific until 1954.

The following table shows the increase in the number of students enrolled during the past five years and the courses they pursued:—

| | 3 | 7 | | TABLE I | II | | | |
|-----------------|--------|---------|------|---------|------|------|------|------|
| Course | | | | 1949 | 1950 | 1951 | 1952 | 1953 |
| Medical | | | | 42 | 76 | 124 | 129 | 173 |
| Dental | | | | 1 | 2 | 23 | 30 | 23 |
| Pharmacy . | | | | 2 | 5 | 5 | 9 | 6 |
| Sanitation . | | | | 6 | 14 | 10 | 20 | 13 |
| Laboratory | | | | 3 | 5 | 6 | 12 | 8 |
| *Filariasis and | Mosqui | ito Con | trol | 13 | 16 | 14 | 21 | 9 |
| X-ray | | | | | | 1 | 1 | 3 |
| | To | tal . | | 67 | 118 | 183 | 222 | 235 |

All sanitation students take this course as from 1953, although it may be taken independently if so requested by a
territory.

36. Medical Auxiliary Subjects—Apart from medical and dental training, complete courses leading to a local certificate in the following technical subjects are available in conjunction with the Central Medical School and Fiji Medical and Health Departments:—

The Sanitary Inspectors course includes training in malaria and filariasis control and the application of insecticides.
 Students from territories other than Fiji may complete the third year in the health department of their home territory.

37. Post-graduate Courses—Post-Graduate Courses associated with the Central Medical School. Special courses are available in tuberculosis (diagnosis, clinical, laboratory, X-ray, treatment, Mantoux testing and B.C.G. vaccination); leprosy (diagnosis, treatment, registration and follow-up); eye diseases; ante-natal and infant welfare work; obstetrics; school health; nutrition; port quarantine duties; filariasis and mosquito control. A programme has been instituted whereby selected Assistant Medical Practitioners in Fiji are returned to the school and hospitals for refresher courses in specific subjects.

A more complete report on the activities at the Central Medical School is contained in

Appendix XII.

38. Central Nurses Training School—As part of the United Kingdom Colonial Development and Welfare scheme new buildings to accommodate the Central Nurses Training School were completed during 1953. These are located at Tamavua and will provide accommodation for 200 nurses.

Nurses' training is also provided at Lautoka and Labasa General Hospitals and at the Tamavua Tuberculosis Hospital. A course of training is also available for Indian girls at the Methodist Mission Hospital, Ba. The average number of nurses in training is 212 with an intake of new students of approximately 90 each year. An average of 25 nurses do not complete their training. The Central Nursing School at Suva also receives a few nurses from the Cook Islands, Western Samoa and Papua/New Guinea for either under graduate training or further training in ward administration, maternity and tuberculosis.

39. Suva Medical Centre—The new Central Medical School building opened in December, 1953 and those comprising the new Central Nurses' Training School and Hostel which will be ready for occupancy late in 1954 constitute part of the Medical Centre, located in Suva, Fiji. There still remain the new maternity and out-patients departments to be constructed as an extension of these facilities at the Colonial War Memorial Hospital in Suva. Funds to cover the cost of the expansion of these and treatment institutions are a gift from the Government of Great Britain as part of its Colonial Welfare and Development Scheme.

The capacity of the Tuberculosis Hospital will be increased from 300 to 325 beds in 1954.

Chest surgery for the treatment of tuberculosis in selected cases became routine during the period

under review.

In 1953 some of the Medical Schools in England agreed to recognize the facilities available at the Colonial War Memorial Hospital, as meeting the requirements for the compulsory year of hospital training prior to medical registration. The Medical Council of New Zealand is also considering the granting of similar recognition. This may lead to applications being received for appointment as resident housemen from students in the United Kingdom and New Zealand and in particular from medical students from Fiji who are attending medical schools in these two countries.

CENTRAL MEDICAL RESEARCH LIBRARY

40. This library was made possible by a grant of £4,051 in 1949 from the United Kingdom Colonial Development and Welfare Fund. A representative collection of text and reference books on medicine, health, research and allied subjects has been acquired; approximately 50 periodicals are received annually.

A mimeograph and micro-film projector have been added to the equipment. The library facilities are available to private practitioners, medical officers, health department staff and students.

A full report of the library activities is contained in Appendix XIII.

METEOROLOGY

Summaries of Meteorological observations for 1952 and 1953 are given at Appendix XIV.
 For these I am indebted to the Meteorological Officer at Laucala Bay, Suva.

J. M. CRUIKSHANK, Director of Medical Services.

allENDix .

DEPARTMENTAL ESTABLISHMENT

| DEPARTMENTAL ESTABLIS | HMEN | 1 | |
|--|------|------|--------|
| | | 1952 | 1953 |
| 1. MEDICAL AND ADMINISTRATIVE SECTION— | | | |
| Diseases (M. Paul Comban | | 1 | 1 |
| Denote Director of Walland Complete | | | î |
| Assistant Disease (II-lab and Madical) | | 1 | 1 |
| Canadama | | 1 | î |
| Saniar Madical Officers | | 9 | 3 |
| Dhysician Cassislist | | 1 | 1 |
| Current Custialist | | i | i |
| Medical Officers | | 10 | 18 |
| O-141-111 | | | 1 |
| D. H. L | | 1 | i |
| Dental Surgeons | | 0 | 2 |
| Dealer Services | | 1 | ī |
| Assistant Madical Descritioners | | 0.0 | 96 |
| Assistant Dontal Descritions | | 0 | 2 |
| Assistant Dentai Practitioners | | - | - |
| 2. Nursing Section— | | | |
| Visiting Constitution Land | | 1 | 1 |
| Matrons and Assistant Matrons | | 5 | 5 |
| | | 40 | 49 |
| Harlah Ciatana | | 11 | 11 |
| Deinsing 1 (1) Testano (C) Nonsing Cabant | | 7 | 7 |
| | | 004 | 319 |
| Assistant Nurses | | 254 | 319 |
| 3. Technical Section— | | | |
| | | | |
| Laboratory Superintendent | | 1 | 1 |
| | | | 8 |
| TT 141 T | | 20 | 1 |
| | | | 1 |
| | | | 33 |
| | | | 7 |
| Di dia | | 4 | 4 |
| | | | 3 |
| Dental Mechanic | | . 1 | 1 |
| A Campiona Sporton | | | |
| 4. CLERICAL SECTION— | | | |
| Clerical Staff | | 35 | 35 |
| 5. Supervisory Section— | | | |
| 35 - 4.1 TF (4.1 444 144 | | 0 | 9 |
| | | 1 | 1 |
| Carrenters (2) Engineers (2) Storekeepers (2) | | 8 | 8 |
| O The Standard Tourston | | 1 | 1 |
| TI | | C | 6 |
| | | | |
| Subordinate Staff | | 107 | 111 |
| 6. Central Medical School— | | | |
| | | 0 | 0 |
| Principal (1) Assistant Principal (1) | | 2 2 | 2 |
| Dental Officer (1) Dental Mechanic (1) | | | 2 |
| Science Lecturer | | 1 | 1 |
| Housekeeper (1) Clerical staff (1) Servants (6) | | . 8 | 8 |
| 7 Free Language Hospital | | | |
| 7. FIJI LEPROSY HOSPITAL— | | | de tan |
| Medical Officer | | 1 | 1 |
| | | . 2 | 2 7 |
| | | 7 | 7 |
| Bakers (4) Headman and Women (10) Servants (20 |) | 34 | 34 |
| Nursing Sisters | | 28 | 31 |
| O. Maranta Propression and Francisco Courses | | | |
| 8. Malaria Prevention and Filariasis Control— | | | |
| Surveyor in Charge | | . 1 | 1 |
| | | 1 | 1 |
| Senior Inspectors (4) Inspectors (19) Assistants (| 15) | . 68 | 68 |
| Clerical Staff (2) Pupils (6) | | . 8 | 8 |
| | | | |

NOTIFICATION OF INFECTIOUS DISEASES BY DISTRICTS FOR THE YEARS—1952 AND 1953.

APPENDIX II

| Name of Disease | Su | va. | South | hern | Wes | tern | East | ern | Nort | hern | Roti | ama | To | tal |
|---------------------------|------|----------|-------|------|-------|-----------|------|------|------|-------|------|-------|--------|-------|
| Name of Disease | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 195 |
| A. Poliomyelitis | 2 | | 1 | | 5 | 1 | | | | | | | 8 | 1 |
| Cerebro-Spinal Meningitis | 8 | 130 | 4 | 2 | 9 | 6 | 2 | 1 | 4 | 6 | ** | | 27 | 15 |
| Chicken pox (Varicella) | 5 | 20 | 16 | 15 | 21 | 68 | 12 | 6 | 17 | 21 | 13 | 44 | 84 | 130 |
| Amoebic Dysentery | 9 | | 1 | 4 | 7 | 10 | 1 | 2 | 8 | 1 | | | 26 | 17 |
| Bacillary Dysentery | 29 | 6 2 | 45 | 30 | 77 | 107 | 5 | 2 | 46 | 15 | 5 | I | 207 | 161 |
| Unclassified Dysentery | 6 | 1,032 | 776 | 420 | 2,675 | 74 852 | 524 | 383 | 640 | 416 | 157 | 76 | 60 | 82 |
| 16 1 (16) (117) | 1000 | 10000000 | 200 | 420 | 7,675 | 8 | 700 | 383 | 2000 | 2.0.0 | 2000 | 1000 | 4,778 | 3,179 |
| 10 10 | | ** | ., | 1 | 1 | | | 5.0 | | - 2 | ** | ** | 1 | 12 |
| | | | | 2 | | 1 | ** | 4 | ** | | ** | 11.55 | | 8 |
| Typhoid Fever | 16 | 5 | 14 | 6 | 15 | 6 | 2 | 2 | 21 | 13 | ** | | 68 | 32 |
| Paratyphoid Fever | 5 | ĭ | 6 | | 1 | 2 | | | 2 | | | - 10 | 14 | 3 |
| Whooping Cough | 11 | 18 | 55 | 6 | 142 | 51 | 73 | 157 | 107 | 13 | 385 | 1 | 773 | 245 |
| Anthrax | | | | | | | | | | | | | | |
| Beriberi | 1 | | | | | | | | | | | | 1 | |
| Dengue Fever | 1 | | 14 | 9 | 27 | 50 | 93 | | | 1 | ** | | 135 | 60 |
| Diphtheria | 5 | 1 | 3 | | 4 | 6 | | | 1 | | | | 13 | 7 |
| Encephalitis | | 1 | ** | 1 | | 1 | | | | | | | | 3 |
| Erysipelas | | ::. | | 411 | 2 | 4 | | ::- | ::. | | 33 | | 2 | 4 |
| Infantile Diarrhoea | 1 | 110 | 220 | 714 | 169 | 634 | 92 | 120 | 121 | 553 | 147 | 66 | 750 | 2,197 |
| Infective Hepatitis | 4 3 | 6 7 | 8 9 | 6 2 | 6 | 12 | 20 | 2 | 3 | 3 | | | 41 | 29 |
| Leprosy | | | - | 7.5 | 2.5 | - | - 5 | 11 | 1950 | 100 | 3 | 4.4 | 33 | 40 |
| Leptospirosis | 3 | 113 | 1 | | 1 | 1 | ** | | 1 | | ** | ** | . 6 | |
| D | 1 | *** | 2 | 2 | 12 | 18 | ** | ** | 7 | 11 | ** | ** | 22 | 31 |
| Scarlet Fever | | ** | | 225 | | 1 | ** | | | | ** | ** | 157000 | 1 |
| Tetanus | 4 | | 4 | 7 | 21 | 21 | 3 | 1 | 6 | 4 | | 17 | 38 | 33 |
| Trachoma | | | 18 | 6 | 20 | 23 | 5 | 2 | 5 | 2 | | | 48 | 33 |
| Tuberculosis pulmonary | 178 | 191 | 67 | 70 | 103 | 121 | 18 | 21 | 28 | 39 | 12 | 3 | 406 | 445 |
| Tuberculosis other | 10 | 3 | 8 | 23 | 13 | 14 | 8 | 4 | 8 | 9 | | | 47 | 53 |
| Undulant Fever | 2 | | | | 2 | | | 1.2 | | | 4.4 | | 4 | |
| Climatic Bubo | | | | | | | | | | | | | | |
| Gonorrhoea | 90 | 91 | 11 | 19 | 89 | 81 | 7 | 18 | 12 | 11 | | | 209 | 220 |
| Ophthalmia Neonatorum | 2 | | 2 | | | ** | 1 | 2 | ** | | | | 5 | 2 |
| Soft Chancre | 2 | .:. | 1 | | | | | | | | | 4.4 | 3 | |
| Syphilis | 16 | 17 | | 4 | 3 | | | 15 | | 1 | - 1 | 11 | 21 | 22 |
| Venereal Granuloma | | ** | ** | | | | ** | ** | ** | 4.0 | | ** | ** | |
| Venereal others | 33 | 4 | 56 | 101 | 32 | 72 | 1 | ** | 110 | 2 | ** | ** | 122 | 181 |
| Ankylostomiasis | 99 | 4 | 1 | 101 | 04 | 12 | | ** | 1 | 9 | 1.0 | | 2 | 181 |

All Malaria cases were imported, that is, in soldiers returning from Malaya, or in individuals who formerly resided in Malarial areas. Anopheline mosquitos have not been discovered in Fiji.

NOTIFICATION OF INFECTIOUS DISEASES BY RACE FOR THE YEARS 1952 AND 1953.

| Disc | | | | Europ | peans | Part-H | Europ. | Fiji | ans | Ind | ians | Oth | iers | Tot | tals |
|--------------------|----------|----|-----|-------|-------|--------|--------|-------|-------|-------|-------|------|------|-------|------|
| Disc | case | | | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 |
| Acute Ant. Polio | myelitis | | | 2 | | 1 | | | | 5 | 1 | | | 8 | 1 |
| Cerebro-Sp. Meni | ngitis | | | | | | | 13 | 10 | 10 | 5 | 4 | | 27 | 15 |
| Chicken pox (Var | ricella) | | | | 9 | 7 | 4 | 51 | 67 | 8 | 48 | 18 | 2 | 84 | 130 |
| Amoebic Dysente | | | | 5 | | | | 7 | 7 | 14 | 10 | | | 26 | 17 |
| Bacillary Dysent | | | | | 3 | 5 | 4 | 64 | 62 | 127 | 91 | 11 | 1 | 207 | 16 |
| Inclassified Dyse | ntery | | | 2 | | 1 | | 17 | 18 | 39 | 63 | 1 | 1 | 60 | 8 |
| nfluenza | | | | 121 | 101 | 82 | 86 | 2,365 | 1,811 | 2,000 | 1,000 | 210 | 181 | 4,778 | 3,17 |
| leasles (Morbilli) | | | | 6 | 9 | 1 | | ** | 1 | | 2 | | | 7 | 1 |
| leasles (German) | | ** | | 1 | | | | | 1 | | ** | | *** | 1 | |
| lumps | | | | | | | | | 4 | | 2 | | 2 | 100 | 1 |
| yphoid Fever | | | | 4 | 2 | 4 | 2 | 27 | 18 | 33 | 10 | 1.1 | | 68 | 3 |
| aratyphoid Fev | er. | | | | | 2 | | 4 | 2 | 8 | 1 | 5.5 | | 14 | |
| Vhooping Cough | | | | 11 | 2 | 11 | 6 | 263 | 198 | 101 | 35 | 387 | 4 | 773 | 24 |
| inthrax | | | | | ** | | | | 4.0 | 100 | | | 100 | ** | |
| Beriberi | | | | | | | | 11. | 110 | 1 | 130 | | | 1 | |
| Dengue Fever | | | | 9 | 8 | 2 | 1 | 116 | 18 | 7 | 32 | 1 | 1 | 135 | 6 |
| Diphtheria | | | | 1 | | ** | | 3 | 1 | 9 | 6 | ** | ** | 13 | 1 3 |
| ncephalitis | ** | | | | | | | | | | 3 | | | *** | 1 |
| rysipelas | | | | | 1 | | | 11. | 1 | 2 | 2 | | | 2 | 200 |
| nfantile Diarrho | | | | 1 | 16 | 19 | 43 | 455 | 1,561 | 119 | 444 | 156 | 133 | 750 | 2,19 |
| nfective Hepatit | 18 . | | | 2 | *** | 4 | ** | 13 | 14 | 19 | 14 | 3 | 1 | 41 | 2 |
| eprosy | | | | | ** | | | 17 | 22 | 10 | 15 | 6 | 3 | 33 | 4 |
| eptospirosis | | ** | | | | 1.1 | | ** | | | ** | ** | | *** | |
| Ialaria | | | | 3 | | | 2.2 | 3 | 1 | 100 | 110 | ** | | 6 | 1 |
| uerperal Fever | | ** | | | | | | 6 | 9 | 16 | 22 | | | 22 | 3 |
| carlet Fever | | | | | 1 | | | | 11. | | *** | | | ** | 1 |
| etanus | | | ** | | | 2 | ** | 16 | 17 | 18 | 16 | 2 | | 38 | 3 |
| rachoma | ** | | ** | | | 2 | | 42 | 30 | 2 | 2 | 2 | 1 | 48 | 3 |
| uberculosis Pulr | nonary | | ** | 3 | 11 | 9 | 7 | 301 | 359 | 95 | 93 | 45 | 28 | 453 | 49 |
| Indulant Fever | | | | | | 12. | ** | 3 | 234 | 1 | 200 | | *** | 4 | ** |
| onorrhoea . | | | 1.1 | 17 | 23 | 11 | 9 | 82 | 117 | 93 | 64 | 6 | 7 | 209 | 22 |
| phthalmia Neon | atorum | | 2.5 | | | | ** | 2 | 2 | 2 | 2.5 | 1 | ** | 5 | - |
| oft Chancre | ** | | 2.2 | | ** | | ** | | 1.5 | 3 | | 100 | | 3 | |
| yphilis | | | | | | 4 | ** | 3 | | 14 | 20 | | 2 | 21 | 2 |
| enereal Granulo | ma | | | | | | | | | | | | | | |
| onjunctivitis | ** | | | | | | | 2 | 130 | | 100 | | 9 | 2 | |
| nkylostomiasis | | | | | | ** | 1 | 47 | 48 | 75 | 130 | | | 122 | 18 |
| | Totals | | | 188 | 186 | 167 | 163 | 3,922 | 4,400 | 2,832 | 2,131 | 852 | 378 | 7,961 | 7,25 |

1953 1952 12: 23.58.44.68.88; 23.65; 23.62; 23.62; 23.63.63 7,961 1953 390 December 1952 . 2004 . 0 1953 5 27 5 16 374 November 1952 1953 44 1952 372 1953 - 40 8 : 1 : 5 571 September 1952 351 1953 5: 3: 12: ::: 1827: 19:: 980 1952 1953 1,226 767 7 33 33 1 12 12 9 13 1 1952 535 -04525 :: -51-6 1953 : :80 1952 -23-69: +-: -668: : 33: 9: : : 13: 22-22-1953 461 1952 ::: + :55 586 1953 649 1952 1282281 : 42 : 76 1953 1 9 1 1 1840 1 1 1 18 - 84 18 643 1952 1953 592 February 1952 1,759 :::300 1953 423 January 1952 : 25.25 1,326 : 8 . . 4 . Poliomyelitis Gonorrhoea ... Ophthalmia Neonat. Soft Chancre ... Ac. Ant. Poliomyeliti
Cer. Sp. Meningitis
Chicken-pox
Am. Dysentery
Bac. Dysentery
Unclass. Dysentery
Influenza
Measles German
Meanles
Meanles
Meanles
Anthrax
Anthrax
Beriberi
Beriberi
Beriberi
Beriberi
Beriberi
Beriperi
Beriperi Tuberculosis Pulm. Tuberculosis Other Undulant Fever Syphilis Vener. Granuloma Ankylostomiasis Conjunctivitis Leptosy ...
Leptospirosis ...
Malaria ...
Puerperal Fever
Scarlet Fever ...
Tetanus

NOTIFICATION OF INFECTIOUS DISEASES BY MONTHS FOR THE YEARS 1952 AND 1953

APPENDIX III

VITAL STATISTICS

* ESTIMATED POPULATION 1951-1953

| | | 1950 | | 1951 | | | | | 1952 | | | 1953 | | | | | |
|-------------|-----|---------|---------|---------|---------|---------|-----|---------|---------|---------|---------|------|---------|---------|---------|---------|-----|
| | | Total | Male | Female | Total | Diff. | % | Male | Female | Total | Diff. | % | Male | Female | Total | Diff. | % |
| Fijians | | 129,896 | 67,506 | 65,383 | 132,888 | + 2,993 | 23 | 69,030 | 66,847 | 135,877 | + 2,988 | 2-3 | 70,758 | 68,615 | 139,373 | + 3,496 | 2- |
| indians | - | 138,425 | 76,258 | 76,574 | 143,332 | + 4,907 | 3-5 | 78,962 | 69,840 | 148,802 | + 5,470 | 3.8 | 81,910 | 72,893 | 154,803 | + 6,001 | 4 |
| Suropeans . | 6 | 6,501 | 3,560 | 2,667 | 6,227 | - 274 | 4-2 | 4,538 | 3,442 | 7,980 | + 1,753 | 2.8 | 3,468 | 3,032 | 6,500 | - 1,380 | 17- |
| Euronesians | | 6,902 | 3,660 | 3,423 | 7,083 | + 181 | 2-6 | 3,783 | 3,515 | 7,298 | + 215 | 3-0 | 3,885 | 3,611 | 7,496 | 198 | 2 |
| Rotumans | | 3,669 | 1,942 | 1,851 | 3,793 | + 124 | 3-4 | 1,955 | 1,890 | 3,845 | + 52 | -14 | 2,031 | 1,959 | 3,990 | + 145 | 3 |
| olynesians | -31 | 4,340 | 2,638 | 1,762 | 4,400 | + 60 | 1-4 | 2,673 | 1,825 | 4,498 | + 98 | 2.2 | 2,390 | 1,743 | 4,133 | - 365 | 8 |
| hinese | 200 | 3,379 | 2,476 | 1,105 | 3,581 | + 202 | 6-0 | 2,540 | 1,179 | 3,719 | + 138 | 4-0 | 2,607 | 1,250 | 3,857 | + 138 | 3- |
| Others | - | 652 | 350 | 304 | 654 | + 2 | 0-3 | 355 | 304 | 659 | + 4 | 0-6 | 348 | 301 | 649 | - 10 | 1 |
| Totals | | 293,764 | 158,390 | 153,069 | 301,959 | + 8,195 | 28 | 163,836 | 148,842 | 312,678 | +10,719 | 3-5 | 167,397 | 153,494 | 320,801 | + 8,123 | 2 |

THE NUMBER OF BIRTHS RECORDED DURING THE YEARS 1950-1953.

| | Race | | 1950 | 1951 | 1952 | 1953 | Crude birth-rate per Mille, 1953 |
|---|-------|------|--|---|---|---|--|
| Fijians Indians Europeans Euronesian Rotumans Polynesians Chinese Others | | | 4,821 5,882 131 232 150 161 137 3 | 4,575 6,056 108 239 185 143 134 | 4,983 6,650 113 257 171 185 139 14 | 4,903 7,133 139 243 194 169 148 | 35 46 21 32 48 40 38 10 |
| | Total | | 11,517 | 11,441 | 12,512 | 12,936 | 40 |

THE NUMBER OF DEATHS RECORDED DURING THE YEARS 1950-1953.

| 8 | Race | | 1950 | 1951 | 1952 | 1953 | Crude death-rate per Mille, 1953 |
|---|-------|------|---|--|--|---|-------------------------------------|
| Indians Europeans Euronesian Rotumans Polynesians | 8 - | | 1,599 1,383 32 42 68 81 24 1 | 1,659 1,252 33 58 61 69 18 | 2,004 1,325 35 42 119 58 18 5 | 1,478 1,257 20 45 49 48 28 1 | 11 8 3 6 10 11 7 |
| | Total | | 3,230 | 3,150 | 3,606 | 2,926 | 9 |

1953

| Race | Mar | riages | Births | Deaths | Increase | Population 1951 | Increase per Mille |
|-------------|-----|--------|--------|--------|----------|--------------------|-----------------------|
| | - | - | | | | - | |
| | | 071 | 4.000 | 0.004 | 0.000 | 100.000 | |
| | | 871 | 4,983 | 2,004 | 2,979 | 132,889 | 22 |
| | | 1,164 | 6,650 | 1,325 | 5,325 | 143,332 | 37 |
| | | 34 | 113 | 35 | 78 | 6,227 | 13 |
| | | 50 | 257 | 42 | 215 | 7,083 | 30 |
| | | 27 | 174 | 119 | 52 | 3,793 | 14 |
| | | 29 | 185 | 58 | 127 | 4,400 | 29 |
| | | 17 | 139 | 18 | 121 | 3,581 | 34 |
| Others | | | 14 | 5 | 9 | 654 | 14 |
| Totals | | 2,192 | 12,512 | 3,606 | 8,906 | 301,959 | 29 |
| | 100 | | | | | Population 1942 | |
| Fijians | | 902 | 4,903 | 1,478 | 3,425 | 135,877 | 25 |
| adlan. | | 1,303 | 7,133 | 1,257 | 5,876 | 148,802 | 39 |
| 7 | | 48 | 139 | 20 | 119 | 7,980 | 15 |
| ? | | 31 | 243 | 45 | 198 | 7,298 | 27 |
| Dataman | | 14 | 194 | 49 | 145 | 2,845 | 38 |
| Dalumaniana | | 33 | 169 | 48 | 121 | 4,498 | 27 |
| Minan | | 13 | 143 | 28 | 120 | 3,719 | 32 |
| hali anno | | 3 | 7 | 1 | 6 | 659 | 9 |
| Totals | | 2,347 | 12,936 | 2,926 | 9,010 | 312,678 | 29 |

INFANT AND CHILD MORTALITY

| | Births | | | DEAT | ня | | | Infant Mortality |
|--------------|----------------|------------|-----------|----------|----------|----------|------------|---------------------|
| 3 444.1433 | | Under 1 | 1-2 | 2-3 | 3-4 | 4-5 | Total | Rate per Mille |
| 1952—Fijians | 4,983 6,650 | 394 341 | 237 45 | 79 19 | 34 13 | 31 10 | 775 428 | 79 51 |
| 1953—Fijians | 4,903 7,133 | 293 341 | 138 28 | 40 13 | 20 9 | 14 9 | 505 400 | 60 48 |

APPENDIX IV

The following tables show the analysis of Inpatients and Out patients for the years 1952 and 1953.

GENERAL AND RURAL HOSPITALS ADMISSIONS RACIAL DISTRIBUTION

| D | C.W.M. I | Iospital | Laut | oka | Levi | ika | Laba | asa | Tama | ivua | Tot | al |
|--|----------------|----------------|--------------|--------------|-----------|-----------|--------------|--------------|-----------|-----------|----------------|----------------|
| Race | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 |
| Fijians | 2,103 2,224 | 1,604 1,691 | 902 2,465 | 472 1,501 | 387 72 | 344 53 | 276 1,668 | 271 1,574 | 206 48 | 253 67 | 3,874 6,477 | 2,944 4,886 |
| Europeans and Euronesians Chinese and Others | 341 455 | 445 176 | 277 201 | 165 225 | 8 87 | 81 72 | 48 40 | 85 26 | 41 | 15 25 | -674 814 | 791 524 |
| Total | 5,113 | 3,916 | 3,845 | 2,363 | 554 | 550 | 2,032 | 1,956 | 295 | 360 | 11,839 | 9,145 |

OUTPATIENTS THROUGHOUT THE COLONY

| | C.W. Hosp | | Tama | vua | 3 Dis Hosp | | 14 R Hosp | | Ru Disper | | Tot | als |
|--|--------------------------------------|------------------------------------|------------------|------------------------|------------------------------------|----------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|
| Race | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 |
| Fijians Indians Europeans, etc. Chinese, others | 22,184 29,132 720 3,955 | 22,546 21,429 1,347 3,676 | 1,005 630 | 1,349 297 51 | 13,919 23,665 1,033 4,477 | 15,734 27,461 976 5,213 | 58,786 37,875 1,545 2,042 | 59,099 39,606 1,268 3,541 | 123,105 38,435 5,929 8,947 | 135,556 39,456 3,527 9,554 | 217,999 129,737 9,227 19,761 | 234,284 128,248 7,118 22,03 |
| Totals | 54,991 | 48,998 | 1,975 | 1,697 | 43,094 | 49,384 | 100,248 | 103,514 | 176,416 | 188,093 | 376,724 | 391,68 |

GENERAL AND RURAL HOSPITALS: ADMISSIONS

| Wandada | | | | Occupied | Beds | | |
|--|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------------|
| Hospitals | 1 | Bed | 5 | Daily A | verage | Admis | sions |
| | | 1952 | 1953 | 1952 | 1953 | 1952 | 1953 |
| C.W.M. Hospital, Suva Tamavua Three District Hospitals . Fourteen Rural Hospitals | | 275 256 210 365 | 275 261 225 365 | 213 247 180 272 | 225 252 196 281 | 5,113 295 6,431 7,754 | 3,916 360 4,859 7,928 |
| Totals | | 1,106 | 1,126 | 912 | 954 | 19,593 | 17,063 |

COLONIAL WAR MEMORIAL HOSPITAL OUTPATIENTS-SUVA AREA

| | Fiji | ans | Indi | ans | Europea | ns etc. | Oth | ers | Tot | als |
|-------------------|---|---------------------------------------|---------------------------------------|---|-----------------------------------|-----------------------------------|------------------------------|------------------------------------|---|---|
| Dental Department | 1952 358 2,638 764 17,424 | 1953 496 2,373 965 18,712 | 1952 583 3,918 773 23,858 | 1953 634 3,605 1,053 16,137 | 1952 663 (a) * (a) 57 | 1953 274 1,062 (a) 10 | 301 1,544 261 1,849 | 1953 254 363 449 1,611 | 1952 1,905 8,100 1,798 43,188 | 1953 1,658 7,403 2,467 37,470 |
| Totals | 21,184 | 22,546 | 29,132 | 21,429 | 720 | 1,346 | 3,955 | 3,676 | 54,991 | 48,998 |

APPENDIX V (a)

FIJI LEPROSY HOSPITAL, MAKOGAI—STATISTICS

The average daily number of patients at Makogai during 1952 were 690·7, of which 400·5 (excluding Banabans, who are now admitted as from Rabe Island) represented patients within the Colony of Fiji. This is the lowest figure for Fiji patients since 1938, and represents 57·9 per cent of the total number of patients. The corresponding figures for 1953 are 686·07 patients, of which 399·10 (excluding Banabans) represented patients from Fiji. The daily average for the different administrations is set out in table form. The above figures indicate that approximately 53 per cent of the Fiji expenditure on Makogai is reimbursed by other administrations—those of New Zealand, Tonga, Cook, Gilbert and Niue Islands. (See table I—1952 and Table I—1953.)

| DAILY AVERAGE | FOR | THE | DIFFER | RENT | ADMINISTRAT | TIONS |
|------------------|-----|-------|---------|--------|--|--------|
| NEW ZEALAND- | | | | 1952 | | 1953 |
| European | | | 1.00 | | 0.54 | |
| Chinese | | | 0.46 | | 1.00 | |
| Samoan | | | 1.00 | | 0.34 | |
| Niue | | | 1.00 | | 1.00 | |
| | | | - | 3.46 | | 2.88 |
| Western Samoa- | | | | | | |
| Euronesian | | | 9.53 | | 8.36 | |
| Chinese | | | 1.00 | | 1.00 | |
| Melanesian | | | 1-00 | | 0.36 | |
| Samoan | | 0.8.8 | 60.78 | | 59-58 | |
| | | | - | 72-31 | | 69-30 |
| AMERICAN SAMOA- | | | | | | |
| Euronesian | | | 3.00 | | 2.24 | |
| Samoan | | | 26.67 | | 16.57 | |
| | | | | 29-67 | - | 18.81 |
| COOK ISLANDS- | | | | | | |
| Euronesian | | | 0.96 | | | |
| Cook Islanders | | | 55.86 | | 48-84 | |
| Niue Islanders | | | 5.00 | | 5.00 | |
| | | | | 61.82 | - | 53-84 |
| Tongan- | | | | | | |
| Tongan | | | 32.07 | | 32.78 | |
| | | | - | 32-07 | | 32.78 |
| GILBERT ISLANDS- | | | | | | |
| - European | | | 1.00 | | 1.00 | |
| Euronesian | | | 2.00 | | 2-41 | |
| Chinese | | | 1.00 | | 1.00 | |
| Gilbert Islander | 8 . | | 76.27 | | 92.58 | |
| | | | - | 80-27 | West of the last o | 96-99 |
| Fiji— | | | 7/3/8/3 | | and the same | |
| European | | | 1.00 | | 1.00 | |
| Euronesian | | | 4.90 | | 5.00 | |
| Chinese | | | 3.00 | | 3.87 | |
| Melanesian | | | 20.90 | | 21.71 | |
| Rotuman . | | | 10.36 | | 12-64 | |
| Samoan | | | 1.00 | | 1-00 | |
| Banaban | | | 10.60 | | 12.37 | |
| Indian | | | 227.05 | | 224.56 | |
| Fijian | | | 132-29 | | 129-32 | |
| | | | - | 411-10 | 100 | 411-47 |
| | | | | 690-70 | | 686-07 |

TABLE 1.

STATISTICS FOR THE YEAR 1952

| | Euro- pean | | Euro- nesian M. F | | Solomon Islander M. F. | | Fijian M. F. | | Indian N. F. | K Gi | Chinese | Rotu- man | eg × | Samoan M. F. | r. an | Niue Islander M. r. | 1000 | Cook Islander M. F. | | Tongan M. r. | | Gilbert Islander M. F. | × | Totals | THE REAL PROPERTY. |
|-------|---------------|-------|-------------------------|-------|------------------------------|--------|-------------------------------|--------------------------|--------------|-------|---------|--------------|-------|-----------------|-------|---------------------------|---|---------------------------|-----------|-----------------|---------|------------------------------|--|-----------|------------------------------|
| 11111 | 01 : : :01 | -:::- | 4-:05 | 9::-9 | 2::-2 | 000:00 | 80 - 84 80 - 84 80 - 84 | 173 188 178 168 | 20-48 | w-::9 | 1:::: | 901- 15 | 4:::4 | 8:-08 | 第::08 | w : : : m | n : : : : : : : : : : : : : : : : : : : | 36::39 | 12 : : 28 | 2:::2 | 88 : 98 | 8∞8 | 45 39 9 45 55 55 55 55 55 55 55 55 55 55 55 55 | 22 4 8 23 | 687 70 13 57 687 |
| : | 3 | | 19 | | 21 | | 126 | | 224 | | 9 | = | | 88 | | 9 | | 52 | | 31 | | 103 | | 687 | |

TABLE I

STATISTICS FOR THE YEAR, 1953

| | | telet Moo'T | |
|----------------------|----|---|--------|
| | | 58 104 104 104 104 104 104 104 104 104 104 | |
| Totals | | 器: 5 a B to 3 a B | 52 |
| Tot | × | 455 71 15 15 14 15 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 663 |
| Gilbert | F. | 38 - 4 : : : 8 | - |
| Gilbert | N. | 2:::29 | 101 |
| Bana- ban | 2 | ω::::::ω | _ |
| Ba | N. | 5::64:::00 | = |
| gan | F. | 51- :0 : : :5 | 0 |
| Tongan | × | 64:4:::6 | 81 |
| Cook | F. | 84:0::3 | _ |
| Slan Islan | N. | 중 : : : : : : : : : : : : : : : : : : : | 41 |
| ders | - | e :::::: | |
| Nine Islanders | N. | 0 ::::::: | 9 |
| | 4 | 84 14 10 18 | 28 |
| Samoan | M. | 86-0:5-8 | 165 |
| uma | i. | 464 : : : : : : 60 | 14 |
| Rotuma | K | r-:::::::::::::::::::::::::::::::::::: | |
| Chinese | 7. | ::::::: | 1 |
| Chir | × | 7::::: | 7 |
| ian | 7. | 8 12 : 4 64 : : 12 | 225 |
| Indian | N. | 8 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 04 |
| Fijian | 4 | 56 - 9 - 6 : : : 24 | 131 |
| Fij | N. | ¥800 : :02 | - |
| Solomon Islanders | | 064 : : : : : : | 22 |
| Solo | M. | 21-:-::-= | 61 |
| - us | P. | P:::::=:0 | 91 |
| Euro- nesian | W. | 12: 12: 13 | |
| Euro- pean | F. | -::::: | 5 |
| Eu | N. | 01 :: -: :: :- | |
| 1 | | In Hospital 1/1/53 Admissions Deaths Conditional Discharges Uncond. Discharges Checond. Discharges Absent. without leave Immates—31/12/53 | Totals |

The following percentages show the relative proportions of the main racial groups of patients.

| | | | | | | 1952 | 1953 |
|-----------|------|-----------|-------|-------|--|------|------|
| Indians | | | | | | 32 | 34 |
| Fijians . | | | | | | 18 | 20 |
| | s (i | including | Banal | oans) | | 15 | 17 |
| Samoan | | | | | | 12 | 9 |
| Cook Isl | | | | | | 7 | 6 |

All patients from American Samoa—25 in number, were repatriated in September 1953 to continue treatment under their own Administration. One Western Samoa patient "stowed away" on the same vessel.

The other four " absentees without leave " shown on Table I 1953, were the last of 11 patients who had not returned after taking leave of absence to see H.M. the Queen and the Duke of Edinburgh when they visited Suva in December. It is perhaps a comment on conditions in Makogai that these patients were fit enough to sail to the main Island in small boats in order to satisfy their loyal ambitions, leaving behind them letters indicating their intention to return speedily when they had seen their Sovereign.

TYPES OF LEPROSY ENCOUNTERED

The 704 patients classified in Table II and III 1952, and 746 in Table II and III 1953, include those who died or were discharged before the end of the year, but does not include the admissions during the last five months of the year, as it was felt that they would merely confuse the progress figures. See Tables II and III 1952, and Tables II and III 1953.

TABLE II-1952

| | | | | | | - | | | | | | | | | |
|-------------------|----|----|----|-----|------|-----|-----|----|-----|-----|----|-----|-----|-------|-----|
| | Т | -1 | Т | -2 | T- | -3 | L | -1 | L | -2 | L | -3 | | Total | 8 |
| | м. | F. | м. | y. | м. | y. | M. | F. | M. | F. | м. | y. | M. | F. | |
| European | | | | 6.0 | | | 1 | 1 | | | | | 1 | 1 | 2 |
| Euronesian | | | 1 | 1 | 11 | 1 | 3 | 3 | 11 | 2 | | | 16 | 7 | 23 |
| Fijian | 3 | 2 | 16 | 32 | 5 | 4 | 22 | 9 | 23 | 12 | 8 | 20 | 77 | 59 | 136 |
| Solomon Islanders | | 2 | 5 | 3 | 2 | 100 | 3 | 1 | 2 | 1 | 2 | 3 | 14 | 10 | 24 |
| Samoan | 2 | 2 | 16 | 2 | | 1 | 11 | 10 | 25 | 18 | 2 | 1 | 56 | 34 | 90 |
| Rotuman | 1 | 44 | 1 | 1.3 | | | 1 | 2 | 5 | 2 | | | 8 | 4 | 12 |
| Cook Islanders | | 6 | 8 | 3 | 1 | | 9 | 2 | 10 | 9 | 1 | | 39 | 20 | 58 |
| Niue Islanders | | 1 | 11 | | 14.5 | 4.4 | 1 | 1 | 2.5 | 1 | 1 | 4.0 | 3 | 3 | 6 |
| Gilbert Islanders | 3 | 5 | 3 | | 1 | 11 | 8 | 10 | 24 | 17 | 5 | | 44 | 32 | 76 |
| Tongan | 1 | 1 | 4 | 4 | 5 | 2 | 6 | 3 | 5 | 2 | | 4.0 | 21 | 12 | 33 |
| Chinese | 1 | - | 1 | | | ** | 1 | 34 | 3 | ** | | | 1 6 | 1 | 6 |
| Indian | 17 | 6 | 31 | 6 | | 1 | 57 | 15 | 72 | 28 | 3 | 1 | 180 | 57 | 237 |
| Totals | 40 | 25 | 86 | 51 | 14 | 9 | 123 | 57 | 180 | 92 | 22 | 5 | 465 | 239 | 704 |
| | 6. | 5 | 13 | 37 | 2 | 3 | 18 | 30 | 27 | 2 | 2 | 27 | 7 | 704 | - |
| | | | 25 | 25 | | | | | - | 479 | | | | | |

TABLE II-1953

| | | T | -1 | T- | -2 | T- | -3 | L- | 1 | L | 2 | L- | 3 | Te | tals | |
|--|----|---|---------------------------------|---|-------------------------------------|----|-----------|--|--|--|--|----------------------------------|----------------------|---|--|--|
| | | м. | F. | M. | P. | м. | y. | м. | F. | M. | F. | M. | F. | M. | F. | 1 |
| European Euronesian Fijian Solomon Islanders Samoan Rotuman Cook Islanders Niue Islanders Gilbert Islanders Congan Chinese | | 1 2 2 3 1 11 11 8 2 21 | 2 3 2 5 1 5 1 | 14 4 16 4 8 4 2 24 | 1 28 1 2 4 6 | | 1 3 1 1 2 | 1 3 22 3 13 1 9 1 10 6 1 57 | 1 2 9 1 11 3 4 1 11 3 | 10 32 2 25 5 12 36 6 4 74 | 3 13 2 17 2 9 1 21 3 | 10 2 2 2 1 1 5 | 3 1 1 | 2 13 84 15 59 7 37 3 69 23 7 178 | 1 7 55 10 34 6 22 3 41 13 | 2 13 2 9 1 5 11 3 23 |
| Totals | | 52 | 25 | 76 | 51 | 13 | 8 | 127 | 63 | 206 | 97 | 23 | 5 | 497 | 249 | 74 |
| | | 7 | 7 | 12 | 27 | 2 | 1 | 1 | 90 | 3 | 03 | 2 | 8 | 7- | 46 | |
| | | | | 1 | 225 | | | - | | | 521 | | | | | |
| | | | - | | | | | | - | 195 | 2 | | | 19. | 53 | |
| Lepromatous- | | | | | | | | | | | | | OA. | 2 2 | er ce | nt |
| Gilbert Islande | rs | | | | | | | | 75 | per | cent | | | | | |
| Gilbert Islande Indians | rs | | | | | | :: | | 75 | per | cent | | 74 | 3 pc | er ce | nt |
| Gilbert Islande Indians Samoans | rs | | | | | | | | 75 74 | per per | cent | | 74 | 3 pc | er ce | nt |
| Gilbert Islande Indians Samoans Fijians | | | | | | | | | 75 74 | per | cent | | 74 74 54 | 3 pc 4 pc 4 pc | er ce | nt nt |
| Gilbert Islande Indians Samoans Fijians Cook Islanders | | | | | | | | | 75 74 62 | per per | cent cent | | 74 74 54 | 3 pc 4 pc 4 pc | er ce | nt nt |
| Gilbert Islande Indians Samoans Fijians Cook Islanders Totals | | | | | | | | | 75 74 62 59 | per per per | cent cent cent | | 74 74 54 52 | 3 pc 4 pc 4 pc 5 pc | er ce | nt nt nt |
| Gilbert Islande Indians Samoans Fijians Cook Islanders | | | | | | | | | 75 74 62 59 70 | per per per per | cent cent cent cent cent | | 74 74 54 52 | 3 pc 4 pc 4 pc 5 pc 88 pc | er ce er ce er ce | nt nt nt nt |

For 1952 the Progress Table shows a total of improvement (including those classified as "Arrested", "Quiescent" and "Improved") of 71 per cent—(73-5 per cent of the males and 66-1 per cent of the females). Racial variations are:—

PROGRESS TABLE III-1952

| | | 100 | | sce | ie- nt | pro | n- ved | Stat | ion- | Wo | rse | Di | ed | | Totals | |
|--|---|---|--------------------|--|-------------------------------|---------------------------------------|--------------------------------|--|---|-------------------------------------|-----------------------------------|---------------------------------|----|--|--|--|
| European Euronesian Fijian Solomon Islanders Samoan Rotuman Cook Islanders Niue Islanders Gilbert Islanders Tongan Chinese Indian Totals | | M. 2 12 5 3 6 2 5 | r. 11 3 3 3 2 5 | м. 2 9 3 16 17 1 6 4 32 | F 17 1 7 8 6 9 | м. 1 7 37 6 21 1 7 1 23 8 3 85 200 | M. 1 5 9 5 14 3 6 1 12 4 23 83 | м. 5 12 13 6 8 1 13 2 3 33 96 | 16 2 13 1 4 2 7 14 | м. 6 2 1 2 7 | F. 2 4 3 1 3 5 | м. 1 1 1 1 6 | F | M. 1 16 77 14 56 8 39 3 44 21 6 180 | F. 1 7 59 10 34 4 20 3 32 12 57 | 23 136 24 90 12 59 6 76 33 6 257 |
| | - | 79 |) | 13 | 88 500 | 2 | 83 | 15 | 5 | 30 | 04 | 1: | 3 | 7 | 04 | |

For 1953 280 of 746 patients are recorded this year as "Stationary" as compared with 155 of 704 patients in 1952. The great majority of those 155 had already shown sufficient improvement to be up-graded. Whether this increased proportion of "Stationary" cases is due to any improvement now becoming so gradual that the progress over a period of 12 months is not noticeable, or due to the fact that the bacilli are becoming "sulphone-fast" demands further observation and investigation. PROGRESS TABLE III-1953

| | Arr | | sce | | pro | - | Stat | | Wo | rse | Di | ed | | Total | 5 |
|-------------------|--------|------|-----|----|-----|-----|------|-----|------|-----|----|------|-----|-------|-----|
| | м. | F. | M. | ¥. | м. | F. | м. | F. | м. | у. | м. | F. | м. | F. | |
| European | 1 | | | | 1 | | | 1 | | | | | 2 | 1 | |
| Euronesian | 1 | | 2 | | 5 | 4 | 5 | 2 | | 1 | 2. | | 13 | 7 | 2 |
| Fijian | 11 | 12 | 3 | 9 | 16 | 8 | 42 | 23 | 9 | 2 | 3 | 1 | 84 | 55 | 13 |
| Solomon Islanders | 4 | 1 | | 1 | 3 | 4 | 6 | 4 | 2 | | | | 15 | 10 | 2 |
| Samoan | 13 | 2 | 2 | 3 | 12 | 10 | 25 | 16 | 6 | 3 | 1 | | 59 | 34 | 9 |
| Cook Islanders | 14 | 7 | 3 | 1 | 9 | 7 | 10 | 7 | 1 | | | | 37 | 22 | 5 |
| Detumen | 0.000 | - 30 | | 18 | 4 | 5 | 3 | 1 | 0.00 | | | | 7 | 6 | 1 |
| Nine Islanders | ** | 100 | 1 | i | 2 | 1 | 1000 | - 1 | ** | ** | ** | ** | 9 | 3 | 100 |
| | 12 | 10 | 100 | | 28 | 100 | 30 | - 0 | 100 | ** | 1 | | 0 | - | 4. |
| Gilbert Islanders | 5 | 6 | 1 | 2 | | 16 | 30 | 6 | 4 | 10 | 1 | | 69 | 41 | 11 |
| Tongan | 4 | 5 | 3 | 1 | 6 | 3 | 7 | 2 | 3 | 2 | | | 23 | 13 | 3 |
| Chinese | | | 1 | | 4 | | 2 | | | | | | 7 | | |
| Indian | 23 | 8 | 17 | 5 | 57 | 20 | 69 | 18 | 8 | 6 | 4 | 100 | 178 | 57 | 23 |
| Anguan | | | | | | | 0.00 | -0 | | | | 0.00 | 220 | - | - |

| 1 | | | | 39 | 8 | | | | | 34 | 8 | | | | | |
|---|--------------|------------------------------|-------------------|-------|---------|-------------------------|------------------------|--------------------------|-------------------------|---------|-------|----|----|----------------------------|---------------------------|--|
| | | 1 | 17 | | 56 | 2 | 25 | 2 | 80 | . 5 | 57 | 1 | 1 | | 746 | |
| 1 | Totals | 76 | 41 | 33 | 23 | 147 | 78 | 199 | 81 | 33 | 24 | 9 | 2 | 497 | 249 | 746 |
| | ers nders | 5 4 | 6 5 | 1 3 1 | 1 2 1 | 28 6 4 | 1 16 3 | 30 7 2 | 6 2 | 4 3 | 10 2 | `i | `i | 3 69 23 7 | 3 41 13 | 6 110 36 7 235 |
| | landers | 1 11 4 13 14 | 12 1 2 7 | 3 2 3 | 9 1 3 1 | 5 16 3 12 9 | 4 8 4 10 7 | 5 42 6 25 10 | 2 23 4 16 7 | 9 2 6 1 | 1 2 3 | 3 | i | 13 84 15 59 37 | 7 55 10 34 22 | 3 20 139 25 93 59 13 |

Total-Arrested, Quiescent and Improved-

| Males . | | | | 52 per cent |
|--------------|-------|------|---------|-------------|
| Females | | | | 57 per cent |
| Gilbert Isla | nders | | | 53 per cent |
| Indians | | | | 55 per cent |
| Samoans | | | *** | 45 per cent |
| Fijians | | | | 42 per cent |
| Cook Island | iers | | | 69 per cent |

TABLE IV-1952

| -11 114 | | | T-1 | T-2 | T-3 | L-l | L-2 | L-3 | Totals |
|--|----|-------|---------------------------------|-------------------------------|-----------------------------|---------------------------------|--------------------------------|-------------------|-------------------------------------|
| Arrested Quiescent Improved Stationary Worse Died | :: | :: | 4 42 7 9 2 1 | 49 57 9 14 5 3 | 10 6 3 1 2 1 | 1 32 100 29 17 1 | 15 1 144 99 8 5 | 20 3 2 2 | 79 138 283 155 36 13 |
| | To | otals | 65 | 137 | 23 | 280 | 272 | 27 | 704 |

| | | | - | T-1 | T-2 | T-3 | L-1 | L-2 | L-3 | Totals |
|--|----|-------|----|-------------------------------|---------------------------------|-----------------------|---------------------------------|----------------------------|--------------------|-------------------------------------|
| Arrested Quiescent Improved Stationary Worse Died . | | | :: | 38 12 9 15 2 1 | 53 14 17 31 10 2 | 7 4 1 6 3 | 19 24 66 65 13 2 | 2 120 153 24 5 | 12 10 5 1 | 117 56 225 280 57 11 |
| | Te | otals | | 77 | 127 | 21 | 189 | 304 | 28 | 746 |

ADMISSIONS

The 69 admissions during the year included 38 patients from Fiji itself, and 31 from beyond the Colony, but two of the Gilbert Island admissions were, more strictly, Banabans admitted from Rabe Island in Fiji, which they purchased a few years ago.

It is noteworthy that the sex ratio of two males to one female holds exactly with regard to these admissions, as well as, approximately, with regard to the discharges, deaths, and the total number of patients. Unfortunately the same ratio does not apply to the stage of disease, for only one of the ten early Tuberculoid cases was a female, and none of the four early Lepromatous cases. It is evident then, that a much higher proportion of females than males is being admitted in the more advanced stages of the disease.

Including the one Gilbert Islander immediately discharged as wrongly diagnosed, the total of admissions is seen to be exactly equal to the total of discharges and deaths, so that the year ended, as it began, with 687 patients at Makogai.

TABLE V-ADMISSIONS-1952

| | | Tuberer 1 | nloid | Tuberc 2 | uloid | Lepo | | Lep | | Lep | | То | tal | |
|---|----|-----------|-------|----------|-------|------|----|-----|-------------|-----|---|--------------|-------------|-------|
| | | м. | у. | M. | у. | м. | т. | м. | F | м. | F | м. | F | |
| Euronesians Solomon Islanders Fijians | | 4 | 1 | 4 5 | 1 2 4 | 2 | :: | 1 7 | 2 2 3 | | | 5 18 | 3 5 7 | 10 25 |
| Chinese | | 5 | :: | 3 1 | 3 | 2 | :: | 9 | | :: | | 1 19 2 | 8 | 2 |
| Totals | ., | 9 | 1 | 14 | 10 | 4 | | 19 | 12 | | | 46 | 23 | 6 |
| | | 10 | | 24 | 1 | 4 | | 31 | 1 | | | 6 | 9 | |

TABLE V-ADMISSIONS 1953

| | | | | N- | -L | T- | -1 | T- | -2 | T- | -3 | L | -1 | L- | -2 | L | 3 | 1 | otals | |
|-------------------|----|-------|------|----|----|----|-----|----|------|-----|-----|----|----|----|-----|-----|----|-------|-------|----|
| | | | | м. | y. | м. | F. | м. | ¥. | м. | F. | м. | F. | м. | F. | м. | F. | м. | ¥. | |
| Solomon Islanders | | | | | | 1 | 1 | | 1.00 | | | | | | 1 | | | 1 | 2 | 1 |
| | | | | | 1 | 1 | 1 | 8 | 2 | | | 1 | | 12 | 2 | 2 | | 23 | 6 | 25 |
| Fijians | ** | ** | ** | ** | 2 | 2 | 1 | 6 | 2 | | | 1 | 1 | 12 | 1 | | | 21 | 7 | 25 |
| Indians | ** | ** | | ** | | | 100 | | | | | | | 1 | | | | 1 | | |
| Chinese | | ** | ** | ** | ** | ** | ** | | ** | 1 | | | 1 | 1 | | | 1 | 1 | 2 | |
| Rotumans | | ** | | ** | ** | | ** | | | | 1.1 | ** | 1 | 4 | 100 | 0.0 | | 6 | 2 | |
| Samoans | | | 16. | | | 1 | | 1 | | 0.0 | 1. | ** | 2 | 2 | 1 | | | 3 | 4 | |
| Cook Islanders | | ** | 1000 | | | 1 | | ** | 1 | | | | 2 | 1 | 40 | 4. | ** | 10.00 | | |
| Tongans | | | | | | 1 | | 2 | | 1.0 | 110 | ** | ** | 1 | 1 2 | ** | ** | 4 | 1 | 2 |
| Gilbert Islanders | | | ** | | | 2 | 2 | 4 | 2 | | | | 1 | 5 | 4 | ** | | 11 | 9 | 2 |
| | Т | otals | | | 3 | 9 | 5 | 21 | 7 | | | 1 | 6 | 38 | 11 | 2 | 1 | 71 | 33 | 10 |
| | | | | | 3 | 1 | 4 | 2 | 8 | - | 0 | , | 7 | 4 | 9 | 1 | 3 | | 10 | 4 |

The 104 admissions included 60 from Fiji itself, and 44 from territories overseas. Of this number, three, considered not to have leprosy, were discharged.

DISCHARGES-1952

Forty-one of the 57 patients discharged were from Fiji itself, but as more than 40 per cent of our patients are from beyond the Colony, this statement may be misleading, as suggesting very much better results among Fiji patients. It is therefore, perhaps, necessary to point out that the Fiji patients are, owing to local confidence in the follow-up system under the Leprosy Registry, discharged when they have been inactive for only one year, and other Islanders after two years. As opportunities in the other groups for checking discharged patients improve, their administrations will doubtless follow Fiji's lead in the matter.

The discharged patients include one severely crippled patient (Tuberculoid-3), and 23 with minor degrees of paralysis and deformity, though the great majority of the latter should be able to lead useful lives and support themselves with a little assistance, if necessary. With regard to the latter point, Government treats each case on its merits, and on the recommendation of the Medical Superintendent, the Lepers Trust Board augments the small Government grant in such cases.

TABLE VI-DISCHARGES 1952

| | | Tub | | Tub | | Tub | | Lep | | Lep | | | Totals | |
|-------------------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|------------------|--------|-----|
| | | M. | F. | м. | F. | м. | F | М. | F. | м. | F | M. | F. | |
| Euronesians | | | | 1 | | | | | | 1 | | 2 | | - 2 |
| Solomon Islanders | | | | 1 | 2 6 | | | | ++ | | | 1 | 2 7 | -3 |
| ijians | | | 1 | 7 | 6 | | ., | | | 1 | | 8 | | 1.5 |
| ndians | | 1 | | 12 | 1 | | | | | 4 | 3 | 17 | 4 | 21 |
| amoans | | | | | | | | | | 2 | 2 | 2 | 2 2 | - 1 |
| ook Islanders | 2.5 | ** | 1 | 4 2 | | 1 | | ** | 20 | ** | 1 | 2 5 2 2 | 2 | |
| ongans | | ** | | 2 | ** | ** | ** | ** | | *** | 1.5 | 2 | | |
| Gilbert Islanders | ** | ** | 2.5 | 1 | | 1.7 | | ** | | | ** | 2 | 1 | |
| Totals | | 1 | 2 | 28 | 9 | 1 | | | 1 | 9 | 6 | 39 | 18 | 57 |
| | | 3 | | 37 | 7 | 1 | | 1 | | 15 | | 5 | 7 | |

DISCHARGES-1953

Forty-one of the 87 discharged were from Fiji. Western Samoa and Cook Island Administrations followed Fiji's lead and have now adopted the principle of permitting patients to be discharged after they have been inactive for one year.

TABLE VI-DISCHARGES 1953

| | | | | T- | 1 | T- | 2 | T- | -3 | L | -1 | L- | -2 | Unc | ond. | | Totals | |
|-------------------|----|------|---|----|----|----|----|----|----|----|----|----|----|-----|------|----|--------|----|
| | | | | M. | F. | м. | F. | Mi | ¥. | м. | F. | м. | ¥. | M. | ¥. | м. | ¥. | |
| Europeans | | | | 1 | | | | | | | | | | | | 1 | | 1 |
| Euronesians | | ** | | | | | | | | | | 1 | | | | 1 | | 1 |
| Solomon Islanders | | | | | | | | | | | | 1 | | | | 1 | | 1 |
| Fijians | | | | 2 | 1 | 4 | 7 | 1 | | | | 1 | 1 | | 1 | 8 | 10 | 18 |
| Indians | | | | 2 | 1 | 11 | 3 | | | 1 | | 2 | | | 2 | 16 | 6 | 22 |
| Samoans | | | | 1 | 1 | 6 | 1 | | | | | 2 | | | | 9 | 2 | 11 |
| Cook Islanders | | | | 4 | 2 | 7 | 3 | | | 1 | | | 1 | | | 12 | 6 | 18 |
| Tongans | | | 1 | 1 | | 2 | 3 | 1 | | | | | | | | 4 | 3 | 7 |
| Gilbert Islanders | | | | 1 | 1 | 1 | 2 | | | 1 | | | 1 | 1 | | 4 | 4 | 8 |
| | To | tals | | 12 | 6 | 31 | 19 | 2 | | 3 | | 7 | 3 | 1 | 3 | 56 | 31 | 87 |
| | | | | 1 | 8 | 5 | 0 | | 2 | - | 3 | 1 | 0 | | 4 | | 87 | |

DEATHS-1952

Two striking facts may be noted regarding the deaths during the year—firstly, that 13 is the lowest number recorded at Makogai since 1920, when the total number of patients was only 244, and secondly, that no deaths were due to tuberculosis in any form.

Nine of the 13 deaths were directly or indirectly attributable to leprosy, which may be taken as an indication that successful as modern drugs undoubtedly are, they are still far from being always effective. On the other hand, a mortality of only 11 per thousand undoubtedly represents a tremendous improvement on previous figures.

The following list classifies the recorded causes of death during 1952.

| Uraemia and Nephritis | | | | 4 |
|----------------------------|------|------|-----|---|
| Amyloidosis | | | | 2 |
| Advanced Leprosy | | | | 2 |
| Septic Osteomyelitis | | | | 1 |
| Haematemesis | | | 1.0 | 1 |
| Cerebellar Abscess | | | | 1 |
| Congestive Cardiac Failure | | | | 1 |
| Cardiac Infarction | | | | 1 |

TABLE VII-DEATHS 1952

| | | | | Tul | | Tub cub | oid | Tub cule 3 | oid | Lep mat | | Lep | | Leg | | , | Totals | |
|--------------|--------|---|-------|-------|----|------------|-----|------------------|-----|------------|----|-----|----|-----|----|----|--------|----|
| | | | | м. | F. | м. | F. | м. | у. | M. | F. | м. | F. | м. | F. | м. | ν. | |
| Fijians | | | | | | | 1 | | 1 | | | 1 | | | | 1 | 2 | 3 |
| Indians | | | | 1 | | | | | | 1 | | 3 | | 1 | 1 | 6 | 1 | 1 |
| Rotumans | | | | | | 1 | | | | | | | | | | 1 | | 1 |
| Samoans . | | | | | | 1 | | | | | | | | | | 1 | | 1 |
| Gilbert Isla | inders | | | | | | | | | | | | 1 | | ** | | 1 | |
| | | Т | otals | 1 | | 2 | 1 | | 1 | 1 | | 4 | 1 | 1 | 1 | 9 | 4 | 13 |
| | | | | - | | 1 | 3 | 1 | | 1 | | | , | 1 | 2 | | 13 | W. |

DEATHS-1953

Only 11 deaths occurred during the year 1953, in six of these, leprosy was directly or indirectly attributable.

The causes were:-

| Uraemia and Chronic | Nephi | ritis | | | 4 |
|----------------------|-------|-------|------|------|---|
| | | | | | 1 |
| Bronchiectasis | | | | | 1 |
| Broncho-pneumonia . | | | | | 1 |
| Cardiac failure | | | | | 2 |
| Coronary Thrombosis | | | | | 1 |
| Cerebral Haemorrhage | e | | | | 1 |

TABLE VII-DEATHS 1953

| | | | Tul | | Lep | | Lep | | Lep | | | Totals | |
|---------------|--------|-----|-----|----|-----|----|-----|----|-----|----|----|--------|----|
| | | | м. | F. | м. | F. | M. | F. | м. | F. | м. | F. | |
| Fijians | | 14. | | | 1 | 1 | 1 | | 1 | | 3 | 1 | 4 |
| Indians | | | 2 | | | | 1 | | 1 | | 4 | | 4 |
| | | ** | 1 | | | | ** | | | ** | 1 | ** | 1 |
| Gilbert Islan | nders | | | | | | 1 | | | 1 | 1 | 1 | 2 |
| | Totals | | 3 | | 1 | 1 | 3 | 1 | 2 | | 9 | 2 | 11 |
| | | | 3 | - | 2 | - | 4 | | 2 | | | 11 | |

TREATMENT-1952

About 65 per cent of all patients have undergone treatment with some Sulphone derivative, so that sulphones can be regarded as mainly responsible for the good results of treatment during the year. Slightly more than half this number have been taking Sulphetrone orally, in doses up to, and but rarely exceeding, 3.0 Gm. daily. Comparatively few of the female patients have been able to take more than 2.0 Gm. per day. Ten patients unable to tolerate sulphones in any normal dose, have improved considerably on sulphetrone injected parenterally in doses of 0.025 Gm. or 0.05 Gm., which might appear too ridiculously small to have any effect whatever. Lepromatous ulcerations of skin and pharynx of reactionary type have, however, healed under this regime when all else has failed.

Diapsone (diaminodiphenyl sulphone) in doses ranging from 0.05 Gm. twice a week to 0.2 Gm. daily, has proved equally effective with sulphetrone. Owing to its comparative cheapness, therefore, it is gradually replacing sulphetrone as our "standard" treatment, and over 300 patients have been receiving it during the year.

Thiacetazone (p-acetylaminobenzaldehyde thiosemicarbazone) has been under continued trial during the year. Twenty-eight patients have been taking the drug, and all but one have had it for 12 to 24 months, though some of the cases subject to severe reaction have been able to tolerate minimal doseage only. One Lepromatous-3 patient who had had no previous treatment, has much improved clinically, although from a bacteriological point of view he remains stationary. Of 27 patients who had proved intolerant to sulphones (16 with constant severe reactions, eight with psychotic manifestations, and three with "drug rash") ten were recorded as "Much Improved" ten as "Improved" and seven as "Stationary". From the bacteriological point of view, one T-2 case and one L-1 case became negative, 11 improved, 13 appeared stationary and one became

Ethizone (p-ethylsulphonylbenzadehyde thiosemicarbazone) was also tried on 17 patients. Seven of these were newly-admitted patients who had had no sulphone or other treatment; ten were patients how had proved intolerant to sulphones. In the former group, the only tuberculoid case developed a new patch after six months treatment, but later showed no activity; three were "Much Improved", one "Improved" and two showed little or no change. The New Zealand representative of Herts. Pharmaceuticals Ltd., kindly supplied this drug.

From these results it does not appear that Ethizone is likely to supplant the sulphones, but it may well prove a very useful auxiliary to them, whether as a part of a combined treatment or as a substitute in cases where patients are unable to tolerate them.

The only toxic sign noted was the development of albuminuria with casts and sometimes accompanied by vomiting and anorexia—a development which we had been warned to treat with respect, and which necessitated temporary interruption of the course.

Isonicotinic Hydrazide has been tested in two series—(1) as Pycazide supplied through the courtesy of Herts Pharmaceuticals Ltd., and (2) as Cotinaxin, supplied through the courtesy of the American Leprosy Foundation and Pfizer Overseas Inc., of New York.

- (1) Pycazide has had the longer test—five months, as against three for Cotinazin—as well as a harder one, having been given to patients in more advanced stages, most of whom had failed to improve under, or even to tolerate, other drugs. Fourteen of the 16 in this series had been subject to constant or frequent lepromatous reactions, which in some cases resulted in actual ulceration. In all but one of the reactionary cases the reactions either ceased or greatly diminished; in the one exception the ulceration cleared in spite of the fact that reactions continued. Three of the patients (including the last-mentioned) were also suffering from pulmonary tuberculosis, accompanied in one by tuberculosis of the spine, and in another by ischio-rectal abscesses. The two latter patients were regarded as moribund, but both have become apyretic and each has put on more than a stone in weight. All but one of the patients on Pycazide has gained in weight.
- (2) Cotinazin has produced much less striking results, partly, perhaps, owing to the shorter period of treatment, but mainly, apparently, to the earlier stage of the disease treated. The only two patients recorded as "Much Improved" were also the only patients in the series suffering from frequent reactions before the beginning of the test. The other eight cases have so far shown no greater improvement than parallel control cases on sulphone therapy. Whether continued treatment will turn the balance in favour of the Cotinazin in this particular series appears doubtful.

On the whole it would appear that Isoniazid is more successful in the more advanced cases and particularly in those with frequent lepromatous reactions.

B. 283—Ten patients have been under treatment for the past four months with B. 283 (2-anilino-3amino-5phenylphenazide hydrochloride) on a daily oral dose of 250 mg. Seven of the ten show about the same degree of improvement as would have been expected under sulphone treatment; one case appeared definitely worse; and in two, the condition appeared stationary. Six of the patients gained, and four lost weight under the drug.

TREATMENT-1953

Eighty-two per cent of the patients have received treatment with a Sulphone derivative. More than half of these were given D.D.S. by mouth in doses ranging from 0.05 Gm. twice weekly to 0.2 Gm. daily: the remainder Sulphetrone by mouth in dosage ranging from 0.5 Gm. to 3.0 Gm. daily, while 17 continued satisfactorily with injections of Sulphetrone in doses of 0.025 Gm. to 0.05 Gm. twice weekly.

No major toxic manifestations occurred during the year.

Thiacetazone (p. acetylamino-benzaldehyde-thiosemicarbazone) was prescribed for 45 patients. The original 28 patients included 27 lepromatous cases intolerant to Sulphones because of constant severe reactions, psychotic manifestations or "drug-rash". At the end of 1953, 20 were improved and seven stationary.

The 45 patients, which includes these, show the following results:-

| 3 Tuberculoid-2 cases | | 1 Arrested 1 Improved |
|------------------------|------|--|
| 9 Lepromatous-1 cases | | 1 Stationary 5 Improved 3 Stationary |
| 30 Lepromatous-2 cases | | 1 Worse 9 Improved 19 Stationary |
| 3 Lepromatous-3 cases | | 2 Worse 2 Improved 1 Stationary |

45

Only two patients continued with Ethizone—one was discharged and the other (L-2) Improved.

ISO-NICOTINIC HYDRAZIDE

As in 1952, tests continued with Pycazide and Cotinazin.

Pycazide—At the end of 1952, the 16 patients advanced cases, most of whom had failed
to improve or even to tolerate other drugs, had had Pycazide for five months. In 13, reactions had
either ceased or become greatly diminished. Two patients, who were regarded as moribund
because of severe tuberculosis, improved amazingly.

By the end of 1953, the condition of 17 patients who had the drug for the year was-

| 2 Lepromatous-1 cases | | 1 Improved 1 Died |
|------------------------|---------|---|
| 12 Lepromatous-2 cases | | 4 Improved 4 Stationary |
| 3 Lepromatous-3 cases | 100 | 4 Worse 2 Improved 1 Stationary |

17

2. Cotinazin—Ten cases commenced trial in 1952. After three months, two patients were reported as "much improved". After six months, two cases showed more improvement than their counterparts on Sulphetrone, seven cases had not improved as much as their parallel cases.

At the end of the year, the position was thus:-

| 9 Lepromatous-2 cases | | 3 Improved |
|-----------------------|------|--------------------|
| | | 3 Stationary |
| 1 Lepromatous-3 cases | | 3 Worse. Worse. |

Only one patient (L-2) was, however, any better than his counterpart on Sulphetrone.

One patient was repatriated to Eastern Samoa. As the supply of Cotinazin became exhausted towards the end of the year, the patients were given other drugs.

Apart from the possibility that it is unwise to give Iso-Nicotinic Hydrazide alone in treatment (it is recommended not to be given alone in the treatment of Tuberculosis), it would appear that this preparation may be of benefit only as an alternative in cases intolerant to Sulphones.

B. 283—(2-anilino-3amino-5 phenylphenazide hydrochloride). Of ten patients who had received a daily dose of 250 mg. for four months, seven at the end of 1952 showed the improvement to be expected from Sulphone, one was worse and two satisfactory.

During 1953, the dosage was increased by 250 mg. on alternate days. Twenty patients at the end of 1953, are reviewed thus:—

| 1 | Tuberculoid-1 case | | | Arrested |
|-----|---------------------|-----|------|--------------|
| 6 | Tuberculoid-2 cases | | | 4 Improved |
| | | | | 1 Stationary |
| - 4 | | | | 1 Worse |
| 1 | Lepromatous-1 case | 2.2 | | Improved |
| 11 | Lepromatous-2 cases | | | 4 Improved |
| | | | | 3 Stationary |
| | | | | 4 Worse |
| 1 | Lepromatous-3 case | | | Improved |

20

While tuberculoid cases responded most satisfactorily, the lepromatous cases did not.

TUBERCULOSIS-1952

There are 23 notified cases of pulmonary Tuberculosis at Makogai, but only six of these have required treatment for active disease during the year. This is very gratifying as an indication that in 17 patients tuberculosis has been rendered quiescent, so that they have been able to return to their respective villages at Makogai for treatment of their residual leprosy.

Five patients were under treatment with Pneumo-Peritoneum and one with Pneumothorax. As mentioned above, in two of the cases the use of Isoniazid (Pycazide) was regarded as life-saving.

TUBERCULOSIS-1953

There are 27 cases of notified tuberculosis at Makogai. Nine developed during the year, one was transferred from Tamavua Tuberculosis Hospital, five patients were discharged from Makogai and two repatriated. Twelve patients have been treated with combination of Streptomycin, P.A.S. and Pycazide—three of these were unable to stand P.A.S. Four patients had additional treatment by pneumo-peritoneum. Not only was the tubercular condition improved but in six cases the Leprosy also improved.

During 1952 and 1953, in addition to "screening" the following X-ray examinations were made:—

Visitors to Makogai during 1952 and 1953 included Mother Blanche and Sister-Anne-Marie from the Ducos Leprosarium, New Caledonia—for a month; Dr. Ferron from New Caledonia—for two weeks, and Dr. Thieme from Western Samoa—for one month; Dr. Norman R. Sloan, Dr. and Mrs Todd of the Department of Health, Papua; Mr. P. J. Twomey, M.B.E., J.P., Field Officer of the Lepers Trust Board (New Zealand) Inc., Sir Henry Scott, Q.C., Chairman of the Lepers Trust Board (Fiji Inc., Mr. W. E. Donovan, Accountant-General of Fiji and Secretary-Treasurer of the Lepers Trust Board; Dr. R. W. D. Maxwell, Deputy Director, and Dr. J. M. Cruikshank, Director of Medical Services; Dr. L. Leiker, Netherlands New Guinea; His Excellency Sir R. H. Garvey, Governor of Fiji, and Lady Garvey; Mr. L. M. Judd, Governor of Eastern Samoa, and Mrs. Judd; Médecin Colonel Filippi, Director of Health Services, New Caledonia; Dr. G. Loiss, South Pacific Commission; Dr. Romans, Chief Medical Officer, Cook Islands; Commandeur T. G. Houdayer of the French Patrouilleur "Tiare"; Bishop O. Terrienne—Gilbert and Ellice Islands Colony; Bishop Lehman—Cook Islands.

Both A.M.P. Ropati Viliamu from Western Samoa and A.M.P. Puta from Gilbert Islands had a month of refresher course on Leprosy, while groups of Students from the Central Medical School came in turn during the year to acquire some experience in the disease and its treatment.

SUMMARY OF STATISTICS-1911-1953

| g massasi g skossos | Europeans. | Euronesians. | Solomon Islanders. | Fijians. | Indians. | Chinese. | Rotumans. | Samoans. | Niue Islanders. | Cook Islanders. | Tongan. | Banabans. | Gilbert Islanders | Maoris. | Total. |
|------------------------|-----------------------------|---------------------------|---------------------------------|-------------------------------|--|----------------------------|-----------------------|----------------------------------|--------------------|----------------------------|------------------------------|-----------------|--------------------------------|---------------------|--|
| Admissions | 23 1 6 14 2 | 53 3 19 15 16 | 220 70 127 1 22 | 922 394 394 2 131 | 1,404 435 415 328 1 225 | 28 6 15 7 | 108 57 37 14 | 155 22 40 34 1 58 | 15 2 7 | 280 170 69 41 | 69 23 17 29 | 13 2 | 229 58 80 101 | 4 1 3 | 3,525 461 1,253 1,141 5 663 |

From 1918 to 1953 one hundred and ninety-four cases were re-admitted of whom one hundred and forty-eight with re-activity.

| | Visitors | 1232400127252 | T. |
|-------------------------|-----------------------|--|--------|
| A | Totals | 838 1,126 989 1,012 1,156 11,56 11,351 1,351 1,064 991 | 12,273 |
| | Bc. | :000=4040-:- | 25 |
| ations | Cosgul |):: ⁰¹ 0000 :: ⁰⁰⁻⁰¹ | 16 |
| Examin | вяя | E-040: -01-0: | 49 |
| Laboratory Examinations | ЧР | 258 258 258 258 258 258 258 258 258 258 | 4,305 |
| Labo | Helm. | : 1 B; 188213B; | 182 |
| Ì | Bact. | 281 390 390 390 390 467 467 467 596 596 596 596 596 596 596 596 596 596 | 5,192 |
| Î | Urine Exam. | 321 251 175 176 177 178 187 187 187 187 187 187 187 187 | \$ |
| | Sereenings | +51 : c 5 5 c 8 c c 4 5 | 88 |
| | Inductions Refills | e000e88445222 | 137 |
| | х-гауз | 2824823238422 | 989 |
| | ьж | ::::=::::::: | - |
| | Operations | .02L/Lev :4888 | 20 |
| | Dressings | 5,274 5,220 5,220 5,335 5,418 5,988 5,086 5,086 3,539 4,216 4,574 | 61,208 |
| | Patients Dressed | 3,600 3,636 3,553 3,553 3,546 3,546 3,026 3,026 3,330 | 41,719 |
| | Totals | 686 836 940 557 557 558 549 549 549 549 | 8,001 |
| | Various Injections | 283 283 284 285 286 287 286 287 288 288 288 288 288 288 288 288 288 | 2,629 |
| 1 | T-0 | :8:::::::: | 213 |
| | Salvars | 7 c 8 0 5 6 4 4 5 8 8 0 c c | 219 |
| njections | nilvenI | 233 215 216 216 217 218 218 218 217 217 217 217 217 217 217 217 217 217 | 1,310 |
| In | Penicillin | 25 CE 1 22 CE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1,465 |
| | Sulphetrone | 988+3775 | 328 |
| | nimeriV enomeV | 23 50 138 138 138 138 138 138 138 138 138 138 | 1,064 |
| | Fluor, and S.A.T. | =92228882288 | 763 |
| | | 11111111111 | : |
| | 1952 | January Reckruary March April May May July September September October December | Totals |

| | sporisiV | ∞55041~05-4×04 | 83 |
|------------------------|----------------------|---|--------|
| | Totals | 863 1,043 1, | 11,473 |
| ations | H.B. Sabli. | 23.00 | 4,224 |
| Examin | B.C. | ra-auuaaar-4 | 8 |
| aboratory Examinations | В.S.R. | 0:4-:0000 | 39 |
| Labo | Urine | 267 267 212 213 213 213 203 203 203 203 203 203 203 203 203 20 | 1,805 |
| | Helminths | :428845528 E | 185 |
| | Bact. | 692 2 4 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 | 5,164 |
| | Operations | **. | 9 |
| | Х-гаув | 228228322848 | 581 |
| | Refills. | 288821111111111111111111111111111111111 | 231 |
| | Patients December | 2,624 3,240 3,004 3,009 2,992 3,028 3,456 4,468 3,274 2,958 3,274 3,907 | 29,433 |
| | Dressings | 3,968 4,250 4,250 2,165 2,165 5,134 5,186 5,134 6,46 6,40 | 57,275 |
| | elatoT | . 525.05.05.05.05.05.05.05.05.05.05.05.05.05 | 8,891 |
| | suoiteV | \$8886558888 4 | 897 |
| | Strept. | 882382888888888888888888888888888888888 | 161,1 |
| | Mantoux | ::﴿:::::::: | 460 |
| | .T.A.T | 25 25 25 25 25 25 25 25 25 25 25 25 25 2 | 687 |
| Injections | N.A.B., etc. | 58842885185 | 281 |
| Ir | niluen1 | 28.22.28.28.28.28.28.28.28.28.28.28.28.2 | 972 |
| | Penicillin | 29122522222 | 116 |
| | Sulphetrone | 2885858588888 2885858588888888888888888 | 1,471 |
| | Vitamin B.1 etc. | 82824288885289 | 1,284 |
| | S.A.T. and Fluor. | 237328282828 | 697 |
| | 1 | 11111111111 | sl |
| | 1953 | January February March April May June July August September October November | Totals |

RAINFALL

| Year. | Jan. | Feb. | Mar. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|-------|-------|-------|------|--------|------|-------|-------|------|-------|------|------|-------|-------|
| 1952 | 10-74 | 5-58 | 4-02 | 6-00 | 4-11 | 4-74 | 6-36 | 3-18 | 1.66 | 1-13 | 4-60 | 10-91 | 63-03 |
| 1953 | 16-41 | 17-08 | 9-01 | 10-01 | 3-11 | 7-60 | 5-34 | 0-88 | 0-52 | 3-54 | 0-96 | 4-96 | 79-63 |

APPENDIX V (b)

LEPROSY SUB-STATION, KOROVOU, SUVA.

The Sub-station was built in 1948 from funds supplied by the Fiji Government and the New Zealand Lepers Trust Board, and consists of three ranges of buildings, on an attractive hilly site overlooking Suva Harbour, the Sisters' Home; "Clean" patients' quarters, and Infected patients' quarters.

The Station serves as a gathering place for newly-discovered patients, who are collected there to await a passage to the leprosarium on Makogai. Here diagnosis is confirmed, the legal details of certification attended to, and therapy started.

The Station also houses patients who have been discharged from Makogai, and who are awaiting transport to their homes, either in Fiji or abroad.

A small number of patients who have resistant trophic ulcers are also accommodated during treatment, as they prefer to stay here among their kind, than to seek accommodation at the general hospitals.

Figures for 1953 are:-

| S 101 1555 arc. | | | | | | |
|-------------------|---------|----------|--------|-----|------|-------------------|
| 1. Number of Pa | tients | housed | pendir | | | |
| | | | | M. | F. | Total |
| Fijians | | | | 18 | 5 | 23 |
| Indians . | | | | 16 | 7 | 23 |
| Chinese . | | | | 1 | | 1 |
| Rotuman | | | | 1 | | -1 |
| Solomon | | | | 1 | 1 | 2 |
| | 2000 | - | | | _ | _ |
| | | | | 37 | 13 | 50 |
| 2. Number of Pa | atients | house | d for | | | |
| survey of treat | ment- | _ | | | | |
| Fijians | | | | 4 | 3 | 7 |
| Indians | | | | 12 | | 12 |
| Gilbertese | 1 | | | 2 | 1 | 3 |
| Solomon | | | | ī | | 3 |
| Colonion | | | | | | <u></u> |
| | | | | 19 | 4 | 23 |
| 3. Number of | Discho | arge-cas | 200 | | 1000 | 20 |
| | | - | | | | |
| housed durin | ig the | year- | | | | |
| Fijians | | | | 8 | 10 | 18 |
| Indians | | | | 17 | 5 | 22 |
| Gilbertese | | | | 2 | 3 | 5 |
| Samoans | | | | 11 | 2 | 13 |
| Tongans | | | | 5 | 3 | 8 |
| Cook Islan | nders | | | 11 | 6 | 17 |
| | | | | - | _ | _ |
| | | | | 54 | 29 | 83 |
| 4. Total Cases Pa | ssing t | through | the . | | | |
| Station- | 100 | | | | | |
| Fijians | | | | 30 | 18 | 48 |
| Indians | | | 1100 | 45 | 12 | 57 |
| Chinese | | | | 1 | | 1 |
| Rotuman | 100 | | | 1 | * | |
| Solomon | - 60 | 13 | | 2 | | 2 |
| Gilbertese | | | | 4 | 4 | 8 |
| Samoans | | 100 | | 11 | 2 | 1 2 8 13 |
| Tongans | | | | 5 | 3 | 8 |
| Cook Islan | | - 1 | | 11 | 6 | 17 |
| COOK ISIAI | ideis | | | | _ | |
| | | | | 110 | 45 | 155 |
| | | | | 110 | 40 | 100 |

APPENDIX VI

TUBERCULOSIS DIVISION-1952 AND 1953

Dr. L. G. Poole proceeded on leave with effect from 26th April, 1952, and Dr. F. R. Hollins took over the duties of Medical Officer in Charge, Tamavua Hospital, and Tuberculosis Control Officer in his absence. Dr. G. D. Murphy joined the staff on 11th March, 1953, and formally took over the duties of Medical Officer in Charge, from Dr. F. R. Hollins on the 23rd June, 1953.

TAMAVUA TUBERCULOSIS HOSPITAL

2. Tamavua Hospital consists of five large ward units with a verandah along one side and end of each ward. A recreation room is available for the showing of films and other forms of entertainment which are organized from time to time. The other units comprise the main bed space, but in addition there is a small four-bedded ward which is at present used for post operative surgical cases, and a few single rooms. The kitchen provides a minimum of one thousand meals per day.

3. Hospital Returns and Statistics-1952-

| ABLEMAN | Europ. | P/Europ | Fijian | Indian | Others | Total |
|----------------------------|--------|---------|--------|--------|--------|-------|
| Admissions | | 9 | 177 | 42 | 28 | 256 |
| Discharges | 1 | 6 | 87 | 28 | 20 | 137 |
| Deaths | | 2 | 29 | 8 | 7 | 46 |
| Old cases re-admitted | | | 13 | 6 | 2 | 21 |
| In-patients transferred to | | | | | | |
| Rural Hospital | | | 1 | 3 | | 4 |
| Daily average Number of | | | | | | |
| In-patients | | | | | | 247 |
| In hospital on 31/12/52 | | | | ** | | 241 |

4. Hospital Returns and Statistics-1953-

| Admissions | Europ. | P/Euro. | Fijian 253 | Indian 67 | Others 25 | Total 360 |
|---|--------|---------|---------------|--------------|--------------|--------------|
| Discharges | | -; | 32 | is | 2 | 248 53 |
| Old cases re-admitted | | - 1. | | | × | 58 |
| Old cases transferred to Rural Hospitals | | | | | | 6 |
| for confinement or urgent operation | | | | | | 18 |
| In-patients | :: | | | | :: | 262 270 |

5. A small non-tuberculous Out-patients' department operates for treating emergencies and minor ailments of staff, Fijians and Indians living in the neighbourhood of Tamavua. Ordinary cases are seen daily between 8 a.m. and 9 a.m.—emergencies, at any time.

6. TUBERCULOSIS OUT-PATIENT DEPARTMENT

The Tuberculosis Out-patient Department is extremely busy, as it deals with cases for investigation and review, collapse therapy refills, and also maintains an X-ray interpretation service for the whole Colony. The work of this department is increasing annually, due to the greater emphasis which is being placed on the prevention of spread of this disease.

The number of people attending for investigation or review has increased from 1,285 in 1952, to 2,058 in 1953. At the same time, the X-ray films which are received from all hospitals in the Colony for interpretation, has reached the large figure of 14,095 for the year 1953, and an average of 50 films per working day are reported on at this hospital.

LABORATORY

- 7. The Laboratory at Tamavua Hospital is staffed by four Fijian orderlies under an Assistant Medical Practitioner, and is equipped to carry out routine sputum and blood examinations on patients and staff. Other more elaborate investigations are referred to the central Laboratory at Suva. During 1952, a new incubator provided by the Anti-tuberculosis Trust Fund was installed and the culture of myco bacterium tuberculosis is now a routine procedure.
 - 8. The following examinations were made during 1952 and 1953.

| V | Sputum | | | P.L. Swab | | | | xno | | Blood Examination | | | | to to | Pig |
|------|-----------|-------|-------|-----------|-------|-------|-------|---------|-----|-------------------|-----|---------------------|-------|-------|--------|
| Year | Dir. | Conc. | Cult. | Dir. | Conc. | Cult. | BSR | Mantoux | BCG | FBC | нв. | HB. RBC. WBC. | Total | | Guinea |
| 1952 | 4,760 | 32 | 104 | 694 | 31 | 111 | 2,179 | 559 | 21 | 725 | 4 | 40 | 769 | 708 | 10 |
| 1953 | 7,587 | 56 | 135 | 531 | 86 | 175 | 3,654 | 379 | | 170 | | 574 | 744 | 685 | |

X-RAY DEPARTMENT

The following X-ray equipment was received during 1952. A mobile 100 mm. P.F. unit with 25 K.V. Onan generator for mass miniature radiography, a mobile D3 unit with screening attachment to be used as a review and treatment unit and a static unit with tomographic and mass miniature attachments for use at Tamavua Hospital. The two first mentioned were provided by the Anti-tuberculosis Trust Fund. Numerous delays occurred in the arrival of parts, thus making the work of the department difficult whilst a shortage of film aggravated the position. As a result, the number of X-rays taken during August and September, 1952, were considerably less than for other months. In addition to the equipment already mentioned, new developing tanks were received at Tamavua Hospital, and the processing room has been re-equipped and re-painted during the period under review. The MMR Unit in the Health Office was damaged in the recent earthquake and was undergoing repair at the end of the year.

10. The returns of the X-ray Department follows:—

| Year | | Fijians | | | Indians | | Europeans P/European | | | Rotumans | | | Others | | | Total | | | |
|------|-------|---------|-----|-----|---------|-----|----------------------|-----|-----|----------|-----|-----|--------|-----|-----|-------|-----|-----|------|
| rear | IP. | OP. | ST. | IP. | OP. | ST. | IP. | OP. | ST. | IP. | OP. | ST. | IP. | OP. | ST. | IP. | OP. | ST. | |
| 1952 | 653 | 706 | 303 | 231 | 309 | 21 | 3 | 43 | 35 | 40 | 51 | 7 | 43 | 40 | 16 | 70 | 86 | 3 | 2,60 |
| 1953 | 1,254 | 1,275 | 563 | 356 | 478 | 116 | 25 | 81 | 63 | 39 | 57 | 12 | 67 | 41 | 12 | 59 | 126 | 5 | 4,6 |

IP. - In-Patient. OP. - Out-Patient. ST. - Staff

The number of miniature films taken at Tamavua and on the mobile mass miniature machine during 1953, were as follows:

At Tamavua At Health Office 3,654 (Unit not working after 10/9/53) Total 4,119

DENTAL DEPARTMENT

11. A dental clinic was established at the hospital in 1952, and has been fully equipped by the Anti-Tuberculosis Fund. In the earlier part of the year, out-patients were treated in this clinic, but it is now confined entirely to in-patients of Tamavua Hospital. At least two dental sessions were held each week during the period under review.

TAMAVUA OPERATING THEATRE

12. A number of new instruments were received during 1952 and 1953, and the theatre is now equipped to undertake Pulmonary Resection, Thorocoplasty, Laparotomy, Bronchoscopy, Pneumonolysis, Phrenic Crush and excision of Tuberculous Cervical and Axillary Glands.

The following procedures were carried out during 1952 and 1953:—

| Laporatory | Thoraco-plasties | Excision of Glands | Phreniclasis | Initial Plaster of Paris | Pneumo- thorax | Pneumoperi- toneum |
|-------------|------------------|--------------------|--------------|-----------------------------|-------------------|-----------------------|
| 1 | 30 | 2 | 163 | 84 | 21 | 203 |
| Pneumothora | ax and Pneumo | peritoneum refill | s-12.570. | | | |

13. The theatre was also used for Pleural Aspirations (diagnostic and therapeutic) and for the suturing of major lacerations.

P.O.P. is applied in an adjacent plaster room where a neck-harness is available.

OCCUPATIONAL THERAPY DEPARTMENT

14. This department continues to prove popular with the patients on grades, and the installation of the Bandsaw has led to greater productivity. One of the main items produced is a chair with a cane back and seat. Patients are engaged in making the seats and backs; other items made are baskets and walking sticks. Knitting, embroidery and crochet work were given to the bed patients and all took a keen interest. A successful exhibition of work done by patients was held in September, 1952, by the kind permission of the Fiji Arts Club as part of their Autumn Exhibition. Assistance in these last named occupations was given by members of the British Red Cross Society who attend the hospital regularly each week. During Coronation week, a display of fancy work was entered with the Committee. The results were gratifying, as many patients were awarded miniature silver cups, Coronation Medals, and other prizes.

- TAMAVUA HOSPITAL: ENTERTAINMENTS

 15. Motion pictures have been shown each week for the benefit of the patients. Suva Group Theatre has given concerts during the year and their voluntary efforts have been greatly appreciated by the patients and staff. Just before Christmas, a concert was arranged by the Group, and gifts were distributed to the patients.
- St. Andrews' Guild visited the Hospital prior to Christmas and distributed gifts to all patients. The Hospital Christmas tree was held on Christmas morning and gifts which were purchased from the Patients' Comforts Fund and Canteen and Occupational Therapy profits were distributed to each patient in the hospital.

PLANTATION

16. It was fortunate that when the hurricane struck, a good deal of crops in the plantation were matured, so we were able to harvest. During the year 1952, root crops and vegetables were harvested to the value of £1,152 5s. 3d.

TUBERCULOSIS CONTROL

17. Tuberculosis Register—A register of all new cases that are notified is kept at Tamavua Hospital. The total number in each race being appended herewith.

| | | | | 1952 | 1953 |
|-----------|------|-------|----|---------|------|
| European | | | | 3 | 11 |
| Part-Euro | pean | | | 9 | 7 |
| Fijian | | | | 301 | 359 |
| Indian | | | | 95 | 93 |
| Others | | | ** | 45 | 28 |
| | | Total | | 453 | 498 |

18. B.C.G. Vaccination-Mantoux testing and vaccination with B.C.G. to all negative reactors has been continued during 1952 and 1953.

| Total | No. | Mantoux tested . | | 11,142 |
|-------|-----|------------------|------|------------|
| Total | No. | B.C.G. tested | | 5.311 |

APPENDIX VII

MENTAL HOSPITAL

Statistical figures are shown in the tables herewith.

It will be seen that there is a steady increase in the number of patients and in the latter part of the year the overcrowding became more evident. A total of 62 patients are out on trial.

The earthquake on September 14th, 1953, caused considerable damage. Almost the whole of the enclosing wall had to be rebuilt and in the mens block much damage was done to the rooms and wards by subsidence.

Mr. Sachs, the Head Attendant, returned from overseas leave on 15th June, 1953. During his absence, Mr. Fenn had acted as Head Attendant.

Details of staff are as follows:-

Medical Superintendent Head Attendant Assistant Attendant 6 Female Samoan Orderlies 2 Female Fijian Orderlies 6 Male Fijian Orderlies

19 Orderlies

5 Male Samoan Orderlies 2 Male Indian Cooks

| Remaining in hospital at end | of 1952 | | 106 |
|------------------------------|---------|------|-------|
| Admitted during 1953 | | | 65 |
| Discharged during 1953 | | | 6 171 |
| Absent on trial during 1953 | | | 25 |
| Died in institution in 1953 | | | 1 |
| Remaining in hospital at end | 01 1953 | | 139 |

The following table shows the length of time of residence of the patients remaining in the mental hospital at the end of 1953:-

| it the end of 1999 | | | | |
|--------------------|--------|-------|---------|-------|
| No. of Years | | Males | Females | Total |
| 0 to 1 year | | 24 | 20 | 44 |
| 1 to 5 years | 7. | 24 | 23 | 47 |
| 5 to 10 ,, | | 11 | 5 | 16 |
| 10 to 15 years | | 5 | 4 | 9 |
| 15 to 20 ,, | | 8 | 3 | 11 |
| 20 to 25 ,, | | 3 | 4 | 7 |
| 25 to 30 ,, | | 1 | 1 | 2 |
| 30 years and over | | 2 | 1 | 3 |
| | | | - | |
| | | 78 | 61 | 139 |

The following shows the distribution of treated patients by type of mental disorder:-

| Type of Disease | | | | No. of Cases | Deaths |
|---------------------|-------|--------|----|-----------------|--------|
| Manic Depressive | | | | 55 | |
| Manic | | | | 6 | |
| Acute Mania | | | | 8 | |
| Religious Mania | | | ** | 2 | |
| Paranoia and para | anoid | states | | 8. | |
| Schizophrenia | | | | 31 | |
| Mental Defective | | | | 7 | |
| Epilepsy | | | | 12 | |
| Puerperal insanity | y | | 2 | 4 | |
| Delusions | | | | 10 | |
| Idiots | | | | 3 | |
| Senile Dementia | | | | 23 | 1 |
| Spastic diplegia ar | nd sy | philis | | 1 | * |
| Arterio Sclerosis | | | | 1 | |
| | | | | | - |
| | | | | 171 | 1 |

The racial distribution and sex of those treated is as follows:-

| | Males | Females | Total | Percentage |
|-----------|--------|---------|-------|---------------|
| Europeans | 9 | - 4 | 13 | 7-6 per cent |
| Fijians | 23 | 16 | 39 | 22.2 per cent |
| Indians | 56 | 49 | 105 | 61.4 per cent |
| Others | 9 | 5 | 14 | 8.2 per cent |
| | - | - | - | |
| | 97 | 74 | 171 | |

The death which occurred at the institution was from the following cause and in the following class:—

General Condition
Senile Dementia Gen

General peritonitis Ruptured duodenal ulcer

The following table shows the nationality and sex of the various patients:-

| | | | Europeans | | Fijians | | Indians | | Others | | Total | | Total | |
|--|----|----|-----------|----|---------|-----|----------|----------|--------|-----|--------------|----------|------------------|--|
| | | | м. | у. | M. | ν. | M. | F. | м. | F. | M. | E. | м. & ғ | |
| emaining at end of 1952 dmitted during 1953 | :: | :: | 7 2 | 3 | 13 | 8 8 | 32 24 | 34 15 | 6 2 | 3 2 | 58 39 | 48 26 | 106 65 171 | |
| bsent on trial during 1953 ischarged in 1953 | :: | | 1 | 1 | 3 1 | 2 | 8 4 1 | 8 1 | 1 | 1 | 13 5 1 | 12 1 | 25 6 1 | |
| containing at end of 1953 otal number absent on trial those absent on trial duri | | | 9 | 3 | 20 | 6 | 18 | 20 | 7 | 1 | 78 | 61 | 139 | |

Four hundred and seventy-three electro-convulsive treatments were given to 61 patients. Visits were made by the Board of Visitors on 26th March, 25th June, and 10th October.

Gifts to the institution were as follows:-

Messrs. Lalji & Magee, a lunch for all patients

Dr. Williams, a parcel to each female patient containing sweets.

Mrs. Sutton, a parcel to each European patient containing sweets, comb, cigarettes and soap.

St. Andrew's Presbyterian Xmas Cheer Fund £5 5s. 0d.

M. Ali Uddan donated at Christmas for the patients, a case of mangoes, sweets and water melon.

APPENDIX VIII

LABORATORIES

TEACHING ACTIVITIES DURING 1952.

In order to provide trained staff for the various laboratories controlled by the Medical Department, the Pathology Division was charged in 1946 with the task of establishing a training school in medical laboratory technology. The School has been in continuous operation from that date, drawing its students from the local community. Of the first class to enroll three students completed the course, which lasts for three years, and leads to a locally valid Certificate of Proficiency in Laboratory Technique. These young men are now employed by the Department, in the category of Qualified Assistants.

At the beginning of 1952 there were four students on the laboratory register. One of these applied for admission to the Central Medical School and left the Laboratory on 12th January. On 23rd January he was replaced, but this student remained only till the end of the year, when he also transferred to the Central Medical School. Of the remaining three, one was successful in gaining a scholarship to an overseas university and left the Colony in February, the second most unfortunately contracted pulmonary tuberculosis, which necessarily led to the termination of his studentship, and the last student completed the year.

It is clear that only by a major effort in the future will the Laboratory training school recover from the grievous blows inflicted in 1952. Plans for the provision of trained assistants to staff both the main laboratory and its branches at Lautoka and Tamavua are now indefinitely delayed.

By arrangement between Dr. H. L. Cloud, United States Trust Territories Liaison Officer and the Medical Department, six students from American Trust Territories in the Pacific were assigned to the Pathology Division for a one year practical course in Laboratory technique. The progress made by these boys was satisfactory, and at the end of the year four of them were released with letters of commendation. The remaining two at our invitation, have been assigned to the Laboratory for a further two years, to undertake more advanced work. It is hoped that when they ultimately return home they will be well fitted for responsible laboratory appointments.

A student from Niue was accepted in February also to take the short course, and a Gilbertese dresser from Tarawa who had been assigned to the laboratory in November 1951 continued in training. A Cook Island student who first came to the Laboratory in 1950 to study informally, and who later was allowed to work with the regularly enrolled students, had to be repatriated early in the year.

The Laboratory Superintendent at the beginning of the year undertook lectures in Physics to the Central Medical School, for two hours daily. This was a temporary measure due to shortage of staff at the school.

THE HURRICANE

The Main Laboratory in Suva suffered relatively little damage from the violent hurricane which struck the town on the morning of January 28th, 1952. However pressing difficulties arose immediately after the storm, as both normal and emergency services had to be maintained with light, power and gas supplies cut off.

The success with which the services of the Laboratory were maintained under these trying conditions is a measure of the enthusiasm and hard work of the staff.

The number of specimens examined in the Central Laboratory, Suva and branch laboratory at Lautoka Hospital is attached. Owing to the absence of clerical staff in the Laboratory during part of 1952, it is regretted that it is not possible to supply the usual detailed analysis of the examinations.

The post of Pathologist which had been vacant for three years was filled in January by the appointment of Dr. M. Gosden.

TEACHING ACTIVITIES DURING 1953

In accordance with the terms of appointment of the Pathologist, a considerable amount of time was occupied during the year in lecturing to Students in the Central Medical School. The subjects on which lectures were given were General Pathology, Bacteriology, Forensic Medicine and Histology. The preparation of these lectures and material for demonstration proved a formidable task in the almost entire absence of classified material for this purpose or facilities for practical work by students. The absence of an adequate Pathological Museum will be rectified during the coming year, but the preparation of sufficient satisfactory specimens for teaching purposes will be a major task for several years to come. In addition to lectures much time has been taken up by teaching in the Post-mortem room.

At the beginning of the year six students were accepted for training in the laboratory to make up for the losses in students reported in 1952. The question of re-organizing the syllabus of training for Laboratory Assistant will, in the light of experience since the scheme was started in 1946 have to be reviewed. There seems to be little doubt that students are coming to the Laboratory to take advantage of the high standard of scientific and mathematical training given to them in their first year, which they use to enable them to proceed overseas. As a result they have no real interest in the routine work of the Laboratory and are not amenable to its routine or discipline. More emphasis will have to be placed on technical rather than academic training if the laboratory school is to carry out its proper function of training Assistants who will remain and work in the laboratories of the Department.

Owing to the number of local students it was not thought advisable to accept students from overseas during the year; two students from the Trust Territories who had been working in the laboratory transferred to the Central Medical School.

Earthquake—The buildings suffered no major damage in the earthquake in September, but the losses in glassware and chemicals were serious. The state of the chemical store gave rise to some anxiety for a time until the more dangerous chemicals had been identified and removed from among the debris on the floor. Tribute is paid to the staff who carried out this unpleasant task, and tidied up the laboratory within a very short time after the first shock.

DIAGNOSTIC WORK OF THE LABORATORIES

An account of the examinations carried out at the Central Laboratory at Suva and branch laboratory at Lautoka for 1952 and 1953 is given below. The amount of work carried out at Lautoka shows a steady increase over the months. This laboratory is run by one qualified Assistant and a messenger, and until more staff is trained it will not be possible to supply another Assistant to this branch.

CENTRAL PATHOLOGICAL LABORATORY, SUVA-PROCEDURES-1952

| Post Mortem Examina C.W.M. Hospital Annexe Private Practitioners Police | | | | | :: | 102 23 1 28 | Histology— Biopsy material Autopsy material Skin Biopsies (Leprosy) Animal Tissues | | :: | :: | | 210 |
|---|-----|-------|--------|-----|----|--------------------------|--|--------|----------|--------|------|--------|
| | | | | | | 154 | | | | | | 960 |
| Parasitology- | | | | | | | General Clinical Pathology | and | Public | Health | not | |
| Stools for worms and | lov | a | | | | 4,446 | classified) | | | | | 15,871 |
| Bacteriology- | | | | | | | Examination of rats | | | | | 40 |
| Sputum for T.B | | | | | | 602 | Blood Transfusion- | | | | | |
| Throat swabs | 10 | | | | | 74 | Blood grouping | | | | 2.0 | 933 |
| Smear for gonoccocc | i . | | | | | 1,587 | Donors bled for transfusion | | | | | 308 |
| | | | | | , | 2,263 | | | | | | 1,241 |
| Kahn reactions | | | | | | 716 | Vaccines— During the year a total of | 661 | itres of | TARV | acci | |
| | Tot | al pr | rocedu | res | 10 | 25,691 | prepared. | 0 0 11 | | | | |

CENTRAL PATHOLOGICAL LABORATORY, SUVA—PROCEDURES—1953

| Histology- | | | | | 4.00 | Agglutination Test- | | | | | | |
|--|--------------------------------|------------------|-----|-----|---|--|------------------|--|---|-------|-----|---|
| Biopsy material | | | | | 467 307 | Typhoid and paratyph Br. abortus (animals, 1 | | | ** | | | 121 |
| Autopsy material Animal Tissues | | ** | | ** | 26 | Dark Ground Illuminatio | | | | | | 01 |
| Skin (Leprosy) | | | | | 23 | For spirochaetes . | | | | | | 8 |
| Morbid Anatomy (Post-morte | | | | | | Vaccines Prepared - | | | | | | |
| Medicolegal | | | | | 42 | T.A.B. (bottles of 50 c | | ** | 200 | 4.0 | 40 | 1,298 |
| for C.W.M. Hospital | | | | | 104 | Autogenous | 0.4 | | | | | 44 |
| Annexe | | | | | 19 | Biochemistry (Blood)— | | | | | | - 00 |
| Mental and Tamavua Hosp | | | | ** | 2 | Sugar estimations | ** | *** | | | | 88 |
| | | ** | | | 18 | T.N.P.N. Estimation | 5 . | ** | *** | | | 102 |
| Parasitology— | | ** | ** | | 10 | Cholesterol Estimation | 18 | | | | | 4 |
| Ova and Cysts | | | | | 3,389 | Blood Serum- | | | | | | |
| Examination for Amoebae | | | | | 200 | | | ** | | | ** | 68 |
| Film for Malaria parasites | | | | | 51 | Icteric Index | | | | | | 13 |
| Microfilaria | | | | | 123 | Calcium | | | | ** | ** | 55 |
| Bacteriology (Micro-Examinat | tions)- | | | | | Alkaline Phosphotase | | | | | | 2 |
| Vaginal | | | | | 044 | Takata-ara-reaction | | | | | | 11 |
| Urethral Smears for gono | cocci | ** | | | 844 | Thymol Turbidity | | | | | | 23 |
| Cervical Sputa for M. tuberculosis | | 10 | | | 522 | Urines- | | | | | | |
| Stool for M. tuberculosis | | | ** | | 112 | | | | | ** | ** | 158 |
| Urine for M. tuberculosis | | | | | 138 | | | | | | | 1,266 |
| Lesions for M. lepral | | | | | 455 | Routine Analysis and Ascorbic acid | | | ** | ** | ** | 443 |
| Skin scales for Fungi | | | 1.0 | | 6 | | | | | 11 | :: | 4 |
| Miscellaneous exudates . | 4.5 | ** | | | 11 | The second secon | | | | 000 | | 20 |
| Haematology- | | | | | 1.000 | Water balance | | | | | ** | 5 |
| White cell counts | | | | | 1,336 | Serology- | | | | | | 0.000 |
| Differential counts Haematocrit readings | | ** | ** | ** | 1,009 275 | | ** | | ** | | | 2,336 |
| Red cell counts | | | | | 838 | C.S.F.— Cytology | | | | | | 584 |
| Haemoglobin estimation (ca | | | | | 2,306 | | | | | | | 537 |
| Sedimentation Rate | | | | | 456 | The second secon | | | | 100 | 1/2 | 164 |
| Blood groupings | | | | | 991 | 00.5 5.5 | | | | | | 148 |
| Pre-transfusion cross match | | | | ** | 135 | Faeces— | | | | | | |
| Rh cell testing | ** | | | ** | 912 | Occult blood | | | | | 2.2 | 91 |
| Reticulocyte counts Donors bled | 11 | 2 | | ** | 135 | | | ** | ** | | ** | 16 |
| Marrow smears | | | | | 147 | No. 1 1 100 N. 1 | | | | ** | | 72 |
| Bleeding time | | | | | 10 | Urea Clearance Test | | | | | | 31 |
| Clotting time | | | | | 4 | Glucose Tolerance Tests | | | | | | 74 |
| Fragility | | | | | 2 | | | | | | | |
| | | * * | ** | ** | | Food and Water Bacteri | | d Exa | minat | 10ns- | | |
| Platelet | | 10 | | | î | Waters | iologica | | | ions- | | 134 |
| Platelet Cultures— | | | ** | | 1 | Waters Milks | iologica | | | | | 19 |
| Platelet | | | | | 85 | Waters | iologica | | | | | 19 73 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B | | | | | 85 217 | Waters | iologica | | | | | 19 73 7 |
| Platelet | | | | | 85 | Waters | iologica | | :: | | | 19 73 7 |
| Platelet | | | | | 85 217 52 278 73 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague | iologica | | :: | | | 19 73 7 9 8 65 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Faeces Urine Blood | | | | | 1 85 217 52 278 73 25 | Waters | iologica | | :: | | | 19 73 7 9 8 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F Facces Urine Blood Throat swabs | | | | | 1 85 217 52 278 73 25 84 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations | iologica | :: :: :: :: | | | | 19 73 7 9 8 65 27 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Faeces Urine Blood | | | | | 1 85 217 52 278 73 25 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations | iologica | :: :: :: :: | | | | 19 73 7 9 8 65 |
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| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Donors bled Bleeding time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari | TOKA | A LA | BOR | ATC | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 108 3 3 2 4 1,023 409 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations To ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Facces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Urea Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations | AND T.B. | 1953 | res | | 2 | 19 73 7 9 8 65 27 24,534 115 98 111 5 41 48 5 172 126 6 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S. F. Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bleeding time Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina | TOKA | A LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 3 2 4 1,023 409 7 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations To ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Faeces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Urea Estimation Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase | AND T.B. | 1953 | res | | 2 | 19 73 7 9 8 65 27 24,534 115 98 111 5 41 48 5 172 126 6 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Facces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Blood groupings Reticulocyte counts Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal) | TOK/ | A LA LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 1,023 409 7 18 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations To ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Facces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Estimation Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— | AND T.B. | 1953 | res | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bleeding time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal Urethral Smears for gone | TOK/ | A LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 3 2 4 1,023 409 7 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Faeces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Estimation Urea Sugar estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test | AND T.B. | 1953 | res | | | 19 73 7 9 8 65 27 24,534 111 5 41 48 5 172 126 6 31 12 1 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Facces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Blood groupings Reticulocyte counts Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal) | TOK/ | A LA LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 1,023 409 7 18 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Faeces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Urea Biochemistry (Blood)— Sugar estimations T.N.P.N. Urea Estimation Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test Routine Analysis and C.S.F.— Cytology | AND T.B. | 1953 | res | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 31 12 1 1,637 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Facces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bleeding time Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal Urethral Cervical Sputa for M. Tuberculosis Lessons for M. Leprae | TOK/ | A LA | BOR | ATC | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 1,023 409 7 18 364 1,192 55 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Facces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N.\ Estimation Urea Sugar estimations Description Urea Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test Routine Analysis and C.S.F.— Cytology Protein Estimations | AND T.B. Deposi | 1953 | res | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 31 12 1 1,637 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B. C.S. F Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bleeding time Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal Urethral Smears for gone Cervical Sputa for M. Tuberculosis Lesions for M. Leprae Skin scales for Fungi | TOK/ | A LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 1,023 409 7 18 364 1,192 55 32 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations To ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Facces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N.\ Urea Sugar estimations Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test Routine Analysis and C.S.F.— Cytology Protein Estimations Sugar Estimations | AND T.B. | 1953 | | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 31 12 1 1,637 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B C.S.F. Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bloed groupings Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal Urethral Cervical Sputa for M. Tuberculosis Lesions for M. Leprae Skin scales for Fungi Miscellaneous exudates | TOKA pecimer tions)— coccci | A LA LA | BOR | ATC | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 4 1,023 409 7 18 364 1,192 364 1,192 35 32 415 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Facces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N.\ Estimation Urea Sugar estimations Description Urea Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test Routine Analysis and C.S.F.— Cytology Protein Estimations | AND T.B. Deposi | 1953 | res | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 31 12 1 1,637 |
| Platelet Cultures— Sputa for M. Tuberculosis Gastric washing for M. T.B. C.S. F Faeces Urine Blood Throat swabs Miscellaneous LAU Lautoka Laboratory—Total s Haematology— White cell counts Differential counts Red cell counts Haemoglobin estimation Sedimentation Rate Blood groupings Reticulocyte counts Donors bled Bleeding time Clotting time Clotting time Platelet Glucose Tolerance Test Parasitology— Ova and Cysts Examination for Amoebae Film for Malaria parasites Microfilari Bacteriology (Micro-Examina Vaginal Urethral Smears for gone Cervical Sputa for M. Tuberculosis Lesions for M. Leprae Skin scales for Fungi | TOK/ | A LA | BOR | ATO | 1 85 217 52 278 73 25 84 100 0RY—P 7,802 676 240 1,230 2,112 756 555 25 108 3 2 4 1,023 409 7 18 364 1,192 55 32 | Waters Milks Ice-creams Aerated waters Others Medicolegal (other than a Rat Autopsies for Plague Animal Inoculations ROCEDURES—1952 Cultures— Gastric washing for M. C.S.F. Faeces Blood Throat swabs Agglutination Test— Typhoid and paratyph Br. abortus Biochemistry (Blood)— Sugar estimations T.N.P.N. Estimation Cholesterol Estimation Blood Serum— Van-den-bergh Protein Estimations Alkaline Phosphotase Urines— Pregnancy Test Routine Analysis and C.S.F.— Cytology Protein Estimations Sugar Estimations Sugar Estimations Chlorides. | AND T.B. | 1953 | res | | | 19 73 7 9 8 65 27 24,534 15 98 111 5 41 48 5 172 126 6 31 12 1 1,637 |

APPENDIX IX.

Return of Diseases and Deaths for the year 1952, at the Colonial War Memorial Hospital, Tamavua, Lautoka, Labasa and Levuka Hospitals.

Note.—This classification is based on the International List of Causes of Death, 1929.

| | rmediate Number | Detailed List Numbers | Cau | se Group | 5 | 17 | | | Euro. | Fijian | Indian | Other | Total | Death |
|--------|--------------------|--------------------------|--|-------------|----------|----------|----------|------|-------|----------|---------|-------|----------|-------|
| | | | | | | | | | | | | | | |
| | | | I—INFECTIVE AN | D PARA | SITIC | DISE | ASES | | | | | | | |
| A | 1 | 001-008 | Tuberculosis of respiratory | | | | | | 6 | 349 | 125 | 49 | 529 | 106 |
| A | 2 3 | 010 | Tuberculosis of meninges | | | | | | | 17 25 | 10 | 4 | 31 | 7 |
| A | 4 | 011 012, 013 | Tuberculosis of intestines, ; Tuberculosis of bones and | | | mesent | eric gia | nds | ** | 33 | 6 15 | 5 | 35 53 | 6 |
| A | 5 | 014-019 | Tuberculosis, all other for | rms | | | | | | 11 | 14 | 3 | 28 | 2 |
| A A | 6 7 | 020 021 | Congenital syphilis Early syphilis | | | | | | | 2 | 1 | 2 | 1 | 1 |
| A | 8 | 024 | Tabes dorsalis | | 110 | | | :: | | | | | 2. | 20 |
| A | 9 | 025 | General paralysis of insar | ne | | | | | | | | | 100 | |
| A | 10 | 022, 023 026-029 | All other Syphilis | | ** | 17 | ** | | ** | 1 | 9 | | 10 | 6 |
| A | 11 | 090-035 | Gonococcal infections | | | | | | 4 | 33 | 57 | 2 | 96 | |
| A | 12 13 | 040 041, 042 | Typhoid fever | er Salmon | nella ir | Jection | | | 4 | 20 13 | 25 | 2 | 51 22 | 3 |
| A | 14 | 043 | Cholera | | | | | | | | | ** | | ** |
| A | 15 | 044 | Brucellosis (undulant feve | er) | | | | | | 4 | 1 79 | 1 | 6 | |
| A | 16 (a) (b) | 045 046 | Bacillary dysentery | 11 | ** | | | | 16 | 18 12 | 73 | 2 5 | 94 62 | 5 2 |
| | (c) | 047, 048 | Other unspecified forms of | of divsente | FU | | | | | 4 | 3 | | 7 | |
| A | 17 18 | 050 051 | Scarlet fever Streptococcal sore throat Erysipelas | | ** | | | | 100 | ** | 2 | | 4 | 1 |
| A | 19 | 052 | Erysipelas. | 11 | ** | 1 | | | | | | | 1 | ** |
| A | 20 | 053 | Septicaemia and pyaemia | | | | | | | 3 | 1 | | 4 | 3 |
| A | 21 22 | 055 056 | Diphtheria | | | | | | - | 17 | 6 8 | 3 | 6 29 | 2 |
| A | 23 | 057 | Meningococcal infections | | | | | | 1 | 8 | 10 | | 18 | 8 |
| A | 24 | 058 | Plague | | | | | | | | 7 | | 174 | |
| A | 25 26 | 060 061 | Tetanus | | ** | | | | 1 | 5 15 | 14 | 4 | 14 34 | 15 |
| A | 27 | 062 | Anthrax Acute poliomyelitis | | | | | | | | | | ** | |
| A | 28 29 | 080 082 | Acute poliomyelitis | iele | | ** | | | 1 | 1 | 2 | 2 | 4 3 | 1 |
| A | 30 | 081,083 | Late effects of acute po | oliomyelti | and | acute | infecti | ous | | ** | | - | 3 | |
| | | | encephalitis | | | | | | | ++ | 1 | | 1 | ** |
| A | 31 32 | 084 085 | Smallpox | ** | ** | ** | | ** | | 1 | | ** | 1 | |
| A | 33 | 091 | Measles | | | | | | 24 | | | | | |
| A | 34 35 | 092 094 | Infectious hepatitis | | - 4 4 | 4.0 | | 4.0 | | 11 | 28 | 4 | 46 | 1 |
| A | 36 (a) | 100 | Rabies | | | | ** | | | - | ** | ** | ** | |
| | (6) | 101 | Flea-borne endemic typhi | us (murin | e) . | | | | | | | | | |
| | (c) (d) | 104 105 | Tick-borne epidemic typh Mite-borne typhus | us | | | | | | | ** | | | ** |
| | (0) | 102, 103 | Other and unspecified ty | phus . | | 11 | | | | 10 | | | 100 | |
| | 07 () | 106-108 | W India distant | | | | | | | | | | | |
| A | 37 (a) (b) | 110 | Vivax malaria (benign, te Malariae malaria (quartar | | | | *** | | | 2 | | ** | 1 2 | (4.5) |
| | (6) | 112 | Falciparum malaria (mali | gnant ter | tian) | | | | | | | | 14 | |
| | (d) (e) | 115 113, 114 | Blackwater fever Other and unspecified for | rms of m | laria | | | ** | | 1 | | | 2 | |
| | (6) | 116, 117 | Other and unspecified for | mis of mi | and the | 100 | 100 | ** | | | 100 | | - | |
| A | 38 (a) | 123-0 | Schistosomiasis vesical (S | | | ** | | | ** | ** | ** | ** | 11 | |
| | (b) (c) | 123-1 123-2 | Schistosomiasis intestinal Schistosomiasis pulmonar | | | | | | | ** | | | 100 | - |
| | (d) | 123-3 | Other and unspecified sch | | | | | | | | | | | |
| A | 39 40 (a) | 125 127 | Hydatid disease Onchocerciasis | | ** | ** | | | | | | | ** | ** |
| - | (6) | 127 | Unchocerciasis | | ** | 11 | | | | - | | | | |
| | (c) | | Filariasis (bancrofti) | | | - 11 | | | 22 | | 2 | | 24 | |
| A | 41 (d) | 129 | Other filariasis | | | ** | ** | | 4 | 18 | 87 | 6 | 116 | |
| A | 42 (a) | 126 | Tapeworm (infestation) a | nd other | | e infest | tations | | | - | 7 | - | - 8 | 1 |
| | (6) | 130 0 | Ascariasis | | | ** | | | 2 | 4 | 5 | 3 | 14 | |
| | (c) (d) | 130-3 124, 128 | Guinea worm (dracunculo Other diseases due to he | | ** | :: | | :: | | "1 | | | 1 | |
| 150 | | 130-1, 130-2 | | | | 11111 | YELL | Will | 1345 | | | | | |
| A | 43 (a) (b) | 037 038 | Lymphogranuloma venere Granuloma inguinale, ven | | ** | ** | ** | ** | | | 2 0 | ** | 2 | |
| | (c) (d) (e) | 039 | Other and unspecified ve | | cases | | | | | 1 | | | 1 | 10 |
| | | 049 | Food poisoning infection | | | | | | 1 | 7 | 6 | 1 | 15 | 14 |

| ist Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Total | Dea |
|---|---|---|-------|----------|--------------|-------|---------------|------|
| 10 | 072 | Leptospirosis icterohaemorrhagica (Weil's disease) | | 3 | | | 3 | |
| (f) (g) (h) (i) (j) (k) (l) | 073 | Yaws | | 22 | | 4 | 26 | |
| (h) | 087 090 | Chickenpox | ** | 4 | 1 2 | 1 | 6 2 | 33 |
| 3 | 095 | Dengue | ** | | | 1 | ī | - :: |
| (k) | 096-7 | Sandfly fever | | | | | ** | |
| (4) | 120 121 (a) | Leishmaniasis | ** | :: | ** | | 11 | 1 |
| | (6) | Trypanosomiasis rhodesiensis | | | | | | |
| (n) | 131 (€) | Other and unspecified Trypanosomiasis | 1 | 5 | 6 | ** | 12 | |
| (0) | 135 | Scabies | | 9 | 12 | | 21 | |
| (p) | 036, 054, 059, 063, 064, 070, | | | | | | | |
| | 074, 086, 088, | | | | | | | |
| | 089, 093, | All other diseases classified as infective and parasitic | 2 | 6 | 4 | 3 | 15 | |
| | 096 1-096 6, 096 8, 096 9, 122, 132-134, 136-138 | | | | 1 | | | |
| | 140 149 | II—NEOPLASMS. | | | 9 | | 9 | |
| 44 45 | 140-148 150 | Malignant neoplasm of buccal cavity and pharynx Malignant neoplasms of oesophagus | | | 3 | ** | 9 3 | |
| 46 | 151 | Malignant neoplasm of stomach | 2 | 3 | 7 | 1 | 13 | |
| 47 48 | 152, 153 154 | Malignant neoplasm of intestine, except rectum | | ** | 5 | * | 5 | |
| 49 | 161 | Malignant neoplasm of rectum | 1 | | î | | 2 | |
| 50 | 162, 163 | Malignant neoplasm of trachea, and of bronchus and lung | | 1 | 3 | | 4 | |
| 51 | 170 | not specified as secondary | | 6 | 1 | | 8 | |
| 52 | 171 | Malignant neoplasm of cervix uteri | | 11 | | 1 | 26 | |
| 53 54 | 172-174 177 | Malignant neoplasm of other and unspecified parts of uterus Malignant neoplasm of prostate | ** | 3 | 1 4 | "1 | 5 | |
| 55 | 190, 191 | Malignant neoplasm of prostate | 5 | 4 | 3 | | 12 | |
| 56 | 196, 197 155, 160, 164, | Malignant neoplasm of bone and connective tissue | 2 | 3 | 1 | | 6 | |
| 57 | 165, 175, 176, | Other and unspecified sites | 3 | 8 | 14 | 2 | 27 | |
| | 178-181, 192- 185, 198, 199 | and impremite it. | | 0 | | | | |
| 58 | 204 | Leukaemia and aleukaemia | | 1 | | | 1 | |
| 59 | 200-203,205 | Lymphosarcoma and other neoplasms of lymphatic and | 1 | 2 | 4 | 1 | 8 | |
| 60 | 210-239 | haematopoietic system Benign neoplasms and neoplasms of unspecified nature | 6 | 22 | 31 | 2 | 61 | |
| | | | | | | | | |
| | | III—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES | | | | | | 4 |
| | | | | | | | | |
| 61 | 250, 251 | IV—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS. Nontoxic goiter | | 1 | 6 | | 7 | |
| 62 | 252 | Thyrotoxicosis with or without goiter | 1 | | 15 | 1 | 17 | |
| 63 64 (a) | 260 280 | Diabetes mellitus | 3 | 14 | 151 | . 2 | 170 | |
| (b) | 281 | Pellagra | | | 1 | 1. | 1 | |
| (c) (d) | 282 283-286 | Other deficiency states | | 1 41 | 10 | | 51 | |
| 65 (a) | 290 | Pernicious and other hyperchromic anaemias | 3 | 1 | 25 | 1 | 30 | |
| (b) | 291 292, 293 | Iron deficiency anaemias (hypochromic) | 1 3 | 12 10 | 158 85 | 5 | 176 98 | |
| 66 (a) | 241 | Asthma | 5 | 16 | 125 | 8 | 154 | |
| (6) | 240, 242-245, 253, 254, 270- | All other allergic disorders endocrine, metabolic and | | | | | | |
| | 253, 254, 270- 277, 287-289, 294-299 | blood diseases | 6 | 6 | 25 | 2 | 39 | |
| | | V-MENTAL, PSYCHONEUROTIC AND | | | | | | |
| 07 | 200 200 | PERSONALITY DISORDERS. | | | | | ** | |
| 67 68 69 | 300–309 310–324, 326 325 | Psychoses | 5 | 3 3 | 6 23 6 | | 10 36 9 | |

| Intermediate List Number | | Cause Groups | Euro. | Fijian | Indian | Other | Total | Deat |
|--|--|--|---------------------------------|---|---|---|---|---------------------|
| A 70 A 71 A 72 A 73 A 74 A 75 A 76 A 77 (a) (c) A 78 | 330-334 340 345 353 370-379 385 387 390 391-393 394 380-384, 386, 388, 389 341, 344, 350-352, 360-369, 395-398 | VI—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS. Vascular lesions affecting central nervous system | 5 7 1 5 2 3 3 | 6 19 8 24 20 1 1 22 3 28 - 13 | 32 6 2 6 15 28 7 6 46 7 25 | 2 3 1 3 6 1 2 7 | 43 30 2 17 47 61 9 13 72 13 63 | 18 18 |
| A 79 A 80 A 81 A 82 A 83 A 84 A 85 A 86 | 400-402 410-416 420-422 430-434 440-443 444-447 450-456 460-468 | VII—DISEASES OF THE CIRCULATORY SYSTEM. Rheumatic fever | 4 | 12 2 6 21 4 3 4 9 | 31 44 43 85 42 18 8 27 | 3 2 5 6 4 | 47 50 58 115 53 22 13 51 | 6 18 20 12 |
| A 87 A 88 A 89 A 90 A 91 A 92 A 93 A 94 A 95 A 96 A 97 (a) | 470-475 480-483 490 491 492, 493 500 501, 502 510 518, 521 519 523 511-517, 520-522, 524-527 | VIII—DISEASES OF THE RESPIRATORY SYSTEM. Acute upper respiratory infections Influenza Lobar pneumonia Bronchopneumonia Primary atypical, other and unspecified pneumonia. Acute bronchitis Bronchitis, chronic and unqualified Hypertrophy of tonsils and adenoids Empyema and abscess of lung Pleurisy Pneumoconiosis All other respiratory disease | 3 9 3 1 4 6 4 2 5 | 23 66 79 71 22 68 19 3 5 12 | 23 192 64 88 23 67 52 30 12 9 | 1 11 14 10 3 4 6 1 3 3 | | 1: 5:0 |
| A 98 (a) (b) A 99 A 100 A 101 A 102 A 103 A 104 (a) (c) A 105 A 106 A 107 | 530 531-535 540 541 543 550-553 560, 561, 570 571 0 571 1 572 581 584, 585 536-539 542, 544, 545, 573-580, 582, 583, 586, 587 | IX—DISEASES OF THE DIGESTIVE SYSTEM. Dental Caries All other diseases of teeth and supporting structures Ulcer of stomach Ulcer of duodenum Gastritis and duodenitis Appendicitis Intestinal obstruction and hernia Gastro-enteritis and colitis between 4 weeks and 2 years Gastro-enteritis and colitis, ages 2 years and over Chronic enteritis and ulcerative colitis Cirrhosis of liver Cholelithiasis and cholecystitis Other diseases of digestive system | 3 9 6 1 5 30 3 5 9 4 1 1 4 25 | 7 15 2 3 14 42 36 28 48 10 6 4 | 15 60 14 11 14 278 60 40 90 4 5 29 | 1 7 4 7 7 1 28 11 8 15 1 14 | 26 91 26 22 68 378 110 81 162 18 12 38 | 13 |

| ntermediate List Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Total | Deati |
|---|---|---|-----------------------|---------------------------|----------------------------|-----------------------|-----------------------------|-------|
| 108 109 110 111 111 | 590 591-594 600 602, 604 610 | X—DISEASES OF THE GENITO-URINARY SYSTEM. Acute nephritis | 2 3 4 3 3 | 7 14 22 3 2 | 22 51 88 37 16 | 2 1 6 3 3 | 33 69 120 46 24 | 10 |
| 113 114 (a) (b) (c) | 620, 621 613 634 601, 603, | Diseases of breast | 3 4 | 12 39 23 | 5 20 71 | 2 4 2 | 21 66 100 | :: |
| | 605-609, 611, 612, 614-617 622-633, 635-637 | All other disease of the genito-urinary system | 24 24 | 122 48 | 310 91 | 23 9 | 479 172 | 11 |
| | 100 | | | | 1 | 1 | | |
| | | XI—DELIVERIES AND COMPLICATIONS OF PREG- NANCY, CHILDBIRTH AND THE PUERPERIUM. | | | | | | |
| 115 | 640-641, 681, 682, 684 | Sepsis of pregnancy, childbirth and the puerperium | | 1 | 20 | 1 | 22 | 3 |
| A 116 | 642, 652, 685, 686 | Toxaemias of pregancy and the puerperium | 2 | 24 | 137 | 5 | 168 | 1 |
| 117 | { 643, 644 670-672 | Haemorrhage of pregnancy and childbirth | 1 | 5 | 27 | 5 | 38 | |
| A 118 A 119 | 650 651 | Abortion without mention of sepsis or toxaemia Abortion with sepsis | 11 | 16 | 53 8 | 21 | 101 | |
| A 120 (a) | 645-649, 673-680, | Other complications of pregnancy, childbirth and the | | 1000 | 1 | | | |
| (b) | 683, 687–689 660 | Delivery without complications | 27 | 106 | 274 579 | 140 | 431 1158 | 1 |
| (0) | | Delivery without complications | | | 070 | 140 | | |
| | | XII—DISEASE OF THE SKIN AND CELLULAR TISSUE | | | | | | |
| | | XIII—DISEASES OF THE BONES AND ORGANS OF MOVEMENT. | | | 30 | | | |
| A 121 A 122 A 123 | 690-698 720-725 726, 727 | Infections of skin and subcutaneous tissue | 2 | 245 29 14 | 246 36 30 | 32 7 4 | 566 77 50 | |
| A 124 A 125 A 126 (a) (b) (c) | 730 737, 745–749 715 700–714, 716 731–736, | Osteomyelitis and periostitis Ankylosis and acquired musculo-skeletal deformities Chronic Ulcer of Skin (including tropical ulcer) All other diseases of skin All other diseases of musculo-skeletal system | 5 | 41 4 12 11 35 | 24 6 12 15 24 | 1 1 2 5 | 71 12 29 37 66 | |
| | 738-744 | | | | | | | |
| | | XIV—CONGENITAL MALFORMATIONS. | | | | | | |
| A 127 A 128 A 129 | 751 754 750, 752, 753, 755-759 | Spina bifida and meningocele | 2 | 17 17 | 6 2 17 | 3 | 6 4 39 | |
| | | XV—CERTAIN DISEASES OF EARLY INFANCY. | | | | | | |
| A 130 | 760, 761 | Birth injuries | | | | | 33 | ** |
| A 131 A 132 (a) | 762 764 | Postnatal asphyxia and atelectasis | | 6 | 8 | 2 | 16 | 1 |
| (b) (c) | 765 763, 766–768 | Ophthalmia neonatorum Other infections of newborn | -11 | 1 | i | | 1 | |
| A 133 A 134 | 770 769, 771, 772 | Haemolytic disease of newborn All other defined diseases of early infancy | | 14 | 24 | ï | 39 | 1 |
| A 135 | 773,776 | Ill-defined diseases peculiar to early infancy and immaturity unqualified | 4 | 5 | 42 | | 51 | 3 |

| Intermediate List Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Total | Death |
|----------------------------------|--|---|--------------------|-----------------|----------------|-------------------|------------------------|-------|
| A 136 A 137 (a) (b) (c) | 794 788 8 793 780-787, 788 1-788 7 788 9, 789-792, 795 | XVI—SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS. Senility without mention of psychosis | 21 40 14 | 61 134 30 | 8 58 178 | 1 4 32 9 | 9 144 384 188 | 3 |

"E" CODE—ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE).

| E 130 E 140 E 140 E 141 E 141 | 9 0 1 2 | E810-E835 E800-E802 E840-E866 E870-E895 E900-E904 E912 | Motor vehicle accidents | 5 | 6 3 | 13 | 2 2 | 26 | 1 |
|---|------------------|---|---|-------|-----|------|-----|----|---|
| E 14 E 14 E 14 E 14 | 0 1 2 | E840-E866 E870-E895 E900-E904 E912 | Accidental poisoning | 1 | 3 | | 2 | - | |
| E 14 E 14 E 14 | 2 | E870-E895 E900-E904 E912 | Accidental poisoning | 1 | 1 | 2.50 | | | |
| E 14 E 14 E 14 | 2 | E900-E904 E912 | Accidental falls | 1 | 1 | | | | |
| E 14: | 2 | E912 | | | | 3 | 1 | 6 | |
| E 14 | | | | | 9 | 21 | 1 | 32 | |
| | 3 | | | 2 | 7 | 8 | 1 | 18 | |
| | | E916 | Accident caused by fire and explosion of combustib | le | | | | | |
| | | | material | | 2 | 5 | 918 | 7 | |
| E 14 | 4 | E917, E918 | material Accident caused by hot substance, corrosive liquid, stea | m | | | | | |
| | | | and radiation | 60 00 | 3 | 7 | 1 | 11 | |
| E 14 | | E919 | | 1 | 7 | 4 | 1 | 13 | |
| E 14 | | E929 | | | 1 | 4 | 15 | 5 | |
| E 14 | 7 | (a) E920 | | . 1 | 8 | 11 | 2 | 22 | |
| | | (b) E923 | Foreign body entering other orifice | | 1 | 3 | 4.4 | 5 | 1 |
| | | (c) E927 | Accidents caused by bites and stings of venomous anima | | 1 | | | | |
| | | 100000 | | 1 | 6 | 14 | 1 | 8 | |
| | | (d) E928 | Other accidents caused by animals | | 1 | 1 | | 2 | |
| | | (a) E910, E911 | | | | - | | | |
| | | E913-E915 | | | | | | | |
| | | E921-E922 | All other accidental causes | 2 | 34 | 43 | 4 | 83 | |
| | | E924-E926 | | | | | | | |
| | | E930-E965 | | | 100 | 188 | | | |
| E 14 | | E970-E979 | Suicide and self-inflicted injury | 3 | 6 | 25 | 4 | 38 | |
| E 14 | 19 | E980-E985 | Homicide and injury purposely inflicted by other person | | | | | | |
| | | | (not in war) | | | | 1.0 | 17 | |
| E 15 | 50 | E990-E999 | Injury resulting from operations of war | 1 | 2.0 | ** | 1 | 2 | |
| | | | | | | | | | |

"N"-ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONING AND VIOLENCE (NATURE OF INJURY).

| AN 139 N805-N809 Fracture of spine and trunk | _ | Total | Other | Indian | Fijian | Euro. | Cause Groups | Detailed List Numbers | Intermediate List Number |
|--|---|-------|-------|--------|--------|-------|--|--------------------------|-----------------------------|
| AN 140 N810-N829 Fracture of limbs | | 33 | | | | 1 | | | |
| AN 141 N830-N839 Dislocation without fracture | | | | | | | | | |
| AN 142 N840-N848 Sprains and strains of joints and adjacent muscle | | | | | | - | | | |
| N 143 N850-N856 Head injury (excluding fracture) | | | | | | | | | |
| N 144 N860-N869 Internal injury of chest, abdomen and pelvis | | 33 | | | | - | | | |
| N 145 N870-N908 Laceration and open wounds | 3 | 13 | 4.0 | 10 | | | | | |
| N 146 N910-N929 Superficial injury, contusion and crushing with intact skin | 5 | 175 | 14 | 70 | 77 | | | | |
| | | | | | | | | | |
| | | 14 | 3 | 5 | 3 | 3 | surface | | |
| | | 14 | 2 | | | | Effects of foreign body entering through orifice | N930-N936 | N 147 |
| N 148 N940-N949 Burns | | 73 | 7 | | | 3 | | N940-N949 | N 148 |
| N 149 N960-N979 Effects of poisons | 3 | 23 | 2 | 6 | 9 | 6 | Effects of poisons | N960-N979 | N 149 |
| AN 150 N950-N959 All other and unspecified effects of external causes 1 11 21 3 36 | 6 | 36 | 3 | 21 | 11 | 1 | All other and unspecified effects of external causes | | AN 150 |

APPENDIX IX (2).

Return of Diseases and Deaths for the year 1953, at the Colonial War Memorial Hospital, Tamavua, Lautoka, Labasa and Levuka Hospitals.

Note.—This classification is based on the International List of Causes of Death, 1929.

| rmediate Number | Detailed List Numbers | Cause Group | 15 | | | | Euro. | Fijian | Indian | Others | Totals | Dear |
|--------------------|--------------------------|--|--------|----------|------|------|--------|----------|---------|--------|----------|------|
| | | | orm. | | one | | | | | | | |
| | | I—INFECTIVE AND PARA | SITIC | DISEA | ISES | | | | | | | |
| 1 | 001-008 | Tuberculosis of respiratory system | | | | - 21 | | 376 | 144 | 43 | 568 | 9 |
| 2 3 | 010 011 | Tuberculosis of meninges and centr Tuberculosis of intestines, peritoner | | | | ands | 1 2 | 22 17 | 17 | 3 2 | 43 34 | 2 |
| 4 | 012,013 | Tubercolusis of bones and joints | | | | | _ | 42 | 8 | 4 | 54 | |
| 5 | 014-019 020 | Tubercolusis, all other forms | | | | | | 24 | 17 | 3 | 44 | |
| 6 7 | 020 | Congenital syphilis | ** | ** | ** | | - | :: | ** | 11 | 2.5 | * |
| 8 | 024 | Tabes dorsalis | | - 10 | | | | | 1 | | 1 | |
| 9 | 025 022, 023 | General paralysis of insane | | | ** | | 2 | 1 9 | 2 26 | | 3 | |
| 10 | 026-029 | All other syphilis | 14 | - 07 | ** | | 2 | 9 | 26 | 2 | 39 | |
| 11 | 030-035 | Gonococcal infections | | 44 | | | 3 | 33 | 30 | 1 | 67 | |
| 12 | 040 | Typhoid fever | | | | | 2 | 12 | 12 | 1 | 27 | |
| 13 | 041, 042 043 | Paratyphoid fever and other Salmo Cholera | | | | | | 7 | 6 | 1 | 14 | 133 |
| 15 | 044 | Brucellosis undulant fever) | | | | 6.0 | | | | | | - |
| 16 (a) | 045 046 | Bacillary dysentery | | | | | 7 | 12 | 56 | | 68 | |
| (b) (c) | 047, 048 | Amoebiasis Other unspecified forms of dysenter | y | | | ** | 1 | 15 | 28 | 3 | 53 | |
| 17 | 050 | Scarlet fever | | | | | | | | | | - |
| 18 19 | 051 052 | Streptococcal sore throat | | | | | | 22. | 1 | 55 | 1 | |
| 20 | 053 | Erysipelas | ** | | - | | "1 | 5 | ** | ** | 6 | |
| 21 | 055 | Diphtheria | | | | | | 2 | 4 | | 6 | |
| 22 | 056 057 | Whooping cough | | | ** | | | 1 | | 3 | 4 | - |
| 23 24 | 058 | Meningococcal infections | ** | | | | | 77 | 2 | ** | 10 | 1 |
| 25 | 060 | Leprosy | | | | | | 7 | 7 | 2 | 16 | |
| 26 | 061 062 | Tetanus | | | | ** | 12 | 11 | | | 23 | 1 |
| 27 28 | 080 | Anthrax | | | | | 1 | 2 | 1 | | 4 | ** |
| 29 | 082 | Acute infectious encephalitis | | | | | | 1 | 1 | | 2 | |
| 30 | 081,083 | Late effects of acute poliomyelitiencephalitis | is and | | | | | 1 | | | | |
| 31 | 084 | Smallpox | | | | | | | 1 | 2.5 | 1 | |
| 32 | 085 | Measles | | | | | 2 | | | | 2 | - |
| 33 34 | 091 092 | Yellow fever | | | ** | | 4 | 15 | 13 | 5 | | |
| 35 | 094 | Infectious hepatitis | ** | | - | | | 15 | 1.5 | | 37 | |
| 36 (a) | 100 | Louse-borne epidemic typhus | | | | | | | | | | |
| (b) (c) | 101 | Flea-borne endemic typhus (murine Tick-borne epidemic typhus |) | | | | | | | | | |
| (d) | 105 | Mite-borne typhus | | | :: | | ** | | :: | | ** | |
| (e) | 102, 103 | Mite-borne typhus Other and unspecified typhus | | | | | | | | | | |
| 37 (a) | 106-108 110 | Vivor malaria (haning testion) | | | | | | 21 | | | 04 | |
| (b) | 111 | Vivax malaria (benign, tertian) . Malariae malaria (quartan) | | | | ** | | 24 | ** | | 24 | :: |
| (c) | 112 | Falciparum malaria (malignant tert | ian) | | | | 1 | i | | | 2 | |
| (d) (e) | 115 113, 114 | Blackwater fever Other and unspecified forms of male | rio. | ** | | | | | ** | | | |
| (6) | 116,117 | Other and unspecified forms of man | no net | 100 | | | ** | 1 | | ** | 1 | |
| 38 (a) | 123-0 | Schistosomiasis vesical (S. kaematok | | | 11 | | | ** | | | ** | |
| (b) (c) | 123·1 123·2 | Schistosomiasis intestinal (S. Manso Schistosomiasis pulmonary (S. japos | | | ** | | | ** | | ** | | |
| (d) | 123-3 | Other and unspecified schistosomias | | ** | 10 | :: | | ** | :: | ** | | |
| 39 | 125 | Hydatid disease | | | | | | 1 | | | 1 | |
| 40 (a) (b) | 127 | Onchocerciasis | ** | ** | | | | | ** | 30 | | |
| (e) | | Filariasis bancrofti) | | ** | 10 | | ** | 22 | | 4 | 26 | |
| (d) | 129 | Other filariasis | | | | | | 21 | 78 | - 5 | 104 | |
| 41 42 (a) | 129 | Ankylostomiasis | astode | infestat | ions | :: | | 22 | 36 | 1 | 60 | |
| (6) | 130-0 | Ascariasis | 4.4 | | | | | 4 | 6 | | 10 | 100 |
| (e) | 130-3 | Guinea worm (dracunculosis) | | | | | | | | | | |
| (d) | 124, 128 130-1, 130-2 | Other disease due to helminths . | 4.4 | | | | *** | 1 | 2 | | 3 | |
| 43 (a) | 037 | Lymphogranuloma venereum | | | | | 2 | 1 | 6 | | 9 | - |
| (b) | 038 | Granuloma inguinale, venereal | | | | | | 2 | 2 | -1 | -5 | |
| (c) (d) | 039 049 | Other and unspecified venereal disea Food poisoning infection and intoxic | | | | - 11 | 1 | 3 9 | 5 | 1 | 16 | |
| (e) | 071 | Relapsing fever | | | | | | | | | 10 | :: |
| | | | | | | 100 | 400000 | - | | 7000 | 100 | - |

| | rmediate Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Others | Totals | Dta |
|-----------------------|--|---|--|---------------|---------------------------------------|--|---------------------|--|-----|
| | S3833838 E39 | 072 073 087 090 095 096-7 120 121 (a) (b) (c) 131 135 036, 054, 059, 063, 064, 070, 074, 086, 088, 089, 093, 096-1-096-6, 096-8, 096-9, 122, 132-134, 136-138 | Leptospirosis icterohaemorrhagica (Weil's disease) Yaws | | 26 2 2 | 2 5 23 | 2 1 1 | 28 5 5 1 10 43 31 | |
| desired desired and a | 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | 140-148 150 151 152, 153 154 161 162, 163 170 171 172-174 177 196, 191 196, 197 155, 160, 164, 165, 175, 176, 178-181, 192- 195, 198, 199 204 200-203, 205 210-239 | II—NEOPLASMS. Malignant neoplasm of buccal cavity and pharynx Malignant neoplasms of oesophagus Malignant neoplasm of stomach Malignant neoplasm of intestine, except rectum Malignant neoplasm of rectum Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary Malignant neoplasm or breast Malignant neoplasm of cervix uteri Malignant neoplasm of cervix uteri Malignant neoplasm of scher and unspecified parts of uterus Malignant neoplasm of skin Malignant neoplasm of bone and connective tissue Other and unspecified sites Leukaemia and aleukaemia Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system Benign neoplasms and neoplasms of unspecified nature | 1 3 1 6 1 7 2 | 1 2 5 | 2 2 2 9 3 5 1 4 4 4 111 6 4 2 10 4 41 | | 7 2 12 8 6 1 6 9 17 14 1 15 5 31 4 | |
| | 61 62 63 64 (a) (b) (c) (d) (e) (e) (e) (e) (e) (e) (f) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f | 250, 251 252 260 280 281 282 283-286 290 291 292, 293 241 240, 242-245, 253, 254, 270- 277, 287-289, 294-299 | III—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES. IV—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS. Nontoxic goitre | | 3 17 1 15 2 11 12 22 22 10 | 16 9 149 2 3 19 18 112 86 134 | 1 2 2 2 | 20 11 171 3 3 40 21 127 102 171 | |
| | 67 68 69 | 300-309 310-324,326 325 | V—MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS. Psychoneuroses and disorders of personality | 3 9 2 | 5 4 4 | 7 17 7 | 1 1 | 16 31 13 | |

| LIST | rmediate Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Totals | Deatl |
|------|--------------------|--|---|----------|-----------|-----------|---------|------------|-------|
| | | | VI—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS. | | | | | | |
| | 70 | 330-334 | Vascular lesions affecting central nervous system | 3 | 13 | 56 | | 72 | 25 |
| | 71 72 | 340 345 | Nonmeningococcal meningitis | 2 | 14 | 15 | 1 | 32 | 3 |
| | 73 | 353 | Multiple sclerosis | 1 | 10 | 5 | 1 | 17 | ** |
| | 74 75 | 370-379 385 | Inflammatory diseases of eye | 6 | 25 15 | 26 92 | 6 | 59 120 | |
| | 76 | 387 | Glaucoma | i | 4 | 4 | | 9 | :: |
| | 77 (a) (b) | 390 391–393 | Otitis externa | 4 | 16 | 39 | 2 | 10 60 | |
| | (c) | 394 | Other inflammatory diseases of ear | 2 | 4 | 3 | | 9 | |
| | 78 (a) | 380-384, 386, 388, 389 | All other diseases and conditions of eye | 4 | 31 | 28 | 3 | 66 | 2.5 |
| | (b) | 341, 344 350-352, 360-369 | All other diseases of the nervous system and sense organs | 13 | 22 | 46 | 7 | 88 | |
| | | 395–398 | | | | | | | |
| | | | | | | | | | |
| | | | VII—DISEASES OF THE CIRCULATORY SYSTEM. | | | | | | |
| | - | 100 100 | | | | | 1 | -0 | |
| | 79 80 | 400-402 410-416 | Rheumatic fever | 4 | 11 12 | 45 51 | 1 3 | 58 70 | 2 |
| | 81 82 | 420-422 430-434 | Arteriosclerotic and degenerative heart disease | 11 8 | 14 | 86 45 | 2 | 113 61 | 2 |
| | 83 | 440-443 | Other diseases of heart | 3 | 4 | 19 | 2 | 28 | |
| | 84 85 | 444-447 450-456 | Hypertension without mention of heart | 5 2 | 1 | 11 5 | 3 | 20 | |
| | 86 | 460-468 | Disease of arteries | 8 | 12 | 54 | 3 | 77 | |
| | | | | | | | | | |
| | | | VIII—DISEASES OF THE RESPIRATORY SYSTEM. | | | | | | |
| | 87 | 470-475 | Acute upper respiratory infections | 10 | 18 | 22 | 4 | 54 | |
| | 88 89 | 480-483 490 | Influenza | 16 13 | 88 107 | 200 66 | 9 | 313 186 | |
| | 90 91 | 491 492, 493 | Bronchopneumonia | 2 5 | 29 | 74 | 3 2 | 108 | 2 |
| | 92 | 500 | Primary atypical, other and unspecified pneumonia | 5 | 30 | 63 | 7 | 105 | |
| | 93 94 | 501,502 510 | Bronchitis, chronic and unqualified | 9 | 6 3 | 36 32 | 6 | .57 39 | |
| | 95 | 518, 521 | Empyema and abscess of lung | 1 | 8 | 21 | 1 | 31 | 1 |
| | 96 97 (a) | 519 523 | Pleurisy | 2 | 13 | 9 2 | 2 | 24 | |
| | (b) | 511-517, | | | | | | | 1,00 |
| | | 520-522, 524-527 | All other respiratory diseases | 4 | 22 | 30 | 1 | 57 | |
| | | | | | | | | | |
| | | | IX—DISEASES OF THE DIGESTIVE SYSTEM. | | | | | | |
| | 98 (a) (b) | 530 531–535 | Dental Caries | 6 | 8 9 | 15 | 3 | 27 48 | |
| | 99 | 540 | Ulcer of stomach | 8 | 7 | 28 | 4 | 47 | 100 |
| | 100 101 | 541 543 | Ulcer of duodenum | 7 5 | 5 36 | 13 52 | 3 | 28 96 | |
| | 102 | 550-553 | Appendicitis | 62 | 34 43 | 236 65 | 22 7 | 354 | |
| | 103 104 (a) | 560, 561, 570 571-0 | Intestinal obstruction and hernia | 8 | 71 | 43 | 7 | 129 129 | |
| | (b) (c) | 571·1 572 | Gastro-enteritis and colitis, ages 2 years and over | 28 | 78 7 | 109 | 4 | 219 17 | |
| | 105 | 581 | Cirrhosis of liver | 3 | 3 | 9 | ** | 15 | |
| | 106 107 | 584, 585 536–539 | Cholelithiasis and cholecystitis | 4 | 3 | 28 | 3 | 38 | |
| | | 542, 544, 545, 573–580, 582, 583, 586, 587 | Other diseases of digestive system | 27 | 62 | 205 | 13 | 307 | |

| Intermediate List Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Totals | Death |
|--|---|--|--|--|--|--------------------------------|--|-------|
| | | X-DISEASES OF THE GENITO-URINARY SYSTEM. | 10 | | | | | |
| A 108 A 109 A 110 A 111 A 112 A 113 A 114 (a) (b) | 590 591-594 600 602, 604 610 620, 621 613 634 601, 603 | Acute nephritis | 2 3 7 4 3 5 8 | 9 10 33 4 3 12 38 19 | 26 38 126 25 7 8 19 75 | 1 1 5 4 8 5 | 38 52 171 37 13 20 70 107 | 2 |
| (*) | 605-609 611, 612 614-617 622-633 635-637 | All other diseases of the genito-urinary system | 59 | 90 | 272 | 15 | 436 | 4 |
| | | VI DELIVERIES AND COMPLICATIONS OF DEC | | | | | | |
| | | XI—DELIVERIES AND COMPLICATIONS OF PREG- NANCY, CHILDBIRTH AND THE PUERPERIUM. | | | | | | |
| A 115 | 640-641, 681, 682, 684 | Sepsis of pregnancy, childbirth and the puerperium | | 4 | 21 | ** | 25 | ** |
| 116 | 642, 652, 685, 686 | Toxaemias of pregnancy and the puerperium | 3 | 5 | 76 | ** | 84 | |
| A 117 | 643, 644 670–672 650 | Haemorrhage of pregnancy and childbirth | 15 | 36 | 90 | 12 | 16 | |
| A 119 A 120 (a) | 651 645-649 | Abortion with sepsis | 3 | 4 | 8 | 1 | 16 | |
| (0) | 673-680 683, 687-689 | Other complications of pregnancy, childbirth and the puerperium | 26 | 59 | 207 | 18 | 310 | |
| (b) | 660 | Delivery without complications | 42 | 149 | 384 | 33 | 608 | |
| | | XII—DISEASES OF THE SKIN AND CELLULAR TISSUE. | | | | | | |
| | | XIII—DISEASES OF THE BONES AND ORGANS OF MOVEMENT. | | | | | | |
| A 121 A 122 A 123 A 124 A 125 A 126 (a) (c) | 690-698 720-725 726, 727 730 737, 745-749 715 700-714, 716 731-736, 738-744 | Infections of skin and subcutaneous tissue Arthritis and spondylitis Muscular rheumatism and rheumatism unspecified Osteomyclitis and periostitis Ankylosis and acquired musculo-skeletal deformities Chronic Ulcer of Skin (including tropical ulcer) All other diseases of skin All other diseases of musculo-skeletal system | 50 7 3 3 2 10 5 8 | 229 39 15 52 9 11 12 29 | 253 47 35 38 9 15 20 16 | 26 2 2 5 1 | 558 95 55 98 20 37 37 56 | :: |
| | | XIV—CONGENITAL MALFORMATIONS | | | | | | |
| A 127 A 128 A 129 | 751 754 750, 752, 753, 755–759 | Spina bifida and meningocele | 2 | 6 24 | 4 4 34 | | 5 10 60 | |
| | | XV—CERTAIN DISEASES OF EARLY INFANCY. | | | | | | |
| A 130 A 131 A 132 (a) (b) (c) A 133 A 134 | 760, 761 762 764 765 763, 766–768 770 769, 771, 772 | Birth injuries Postnatal asphyxia and atelectasis Diarrhoea of newborn (under 4 weeks) Ophthalmia neonatorum Other Infections of newborn Haemolytic disease of newborn All other defined diseases of early infancy | | 1 4 | 3 2 1 1 1 19 | | 5 2 1 1 1 25 | |
| A 135 | 773,776 | Ill-defined diseases peculiar to early infancy, and immaturity unqualified | | 8 | 15 | 3 | 26 | |

| Intermediate List Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Total | Death |
|----------------------------------|---|---|-------|----------------------|-----------------------|-------------------|-------------------------|-------|
| A 136 A 137 (a) (b) (c) | 794 788-8 793 780-787 788-1-788-7 788-9, 789-792, 795 | XVI—SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS. Senility without mention of psychosis | | 1 34 252 29 | 6 42 561 104 | 1 2 90 3 | 8 89 1,006 168 | 3 2 |

"E" CODE—ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE).

| Intermediate List Number | Detailed List Numbers | Cause Groups. | Euro. | Fijian | Indian | Other | Totals | Death |
|-----------------------------|--------------------------|---|-------|--------|--------|-------|----------|-------|
| AE 138 | E810-E835 | Motor vehicle accidents | 5 | 16 | 23 | 1 | 45 | 2 |
| AE 139 | E800-E802 E840-E866 | Other transport accidents | | 1 | 3 | | 4 | |
| AE 140 | E870-E895 | Accidental poisoning | 3 | 13 | 2 | | 18 | |
| AE 141 | E900-E904 | Accidental falls | 18 | 36 | 52 | 4 | 110 | |
| AE 142 | E912 | Accident caused by machinery | 1 | 4 | 7 | 100 | 12 | 1 |
| AE 143 | E916 | Accident caused by fire and explosion of combustible material | | 9 | 9 | 2 | 20 | 2 |
| AE 144 | E917, E918 | Accident caused by hot substance, corrosive liquid, steam | | 0 | 0 | | | |
| | TOTO | and radiation | 2 | 6 | 9 | 3 | 18 11 | ** |
| AE 145 AE 146 | E919 E929 | Accident caused by firearm | | | 5 | | 6 | 1 |
| AE 147 | (a) E920 | Foreign body entering eye and adnexa | 2 | 9 | 12 | | 23 | 51075 |
| AD 147 | (b) E923 | Foreign body entering eye and address | ĩ | | 2 | ** | 3 | ** |
| | (e) E927 | Accidents caused by bites and stings of venomous animals | | 800 | 3.76 | 200 | | |
| | (6) 25021 | and insects | | 2 3 | 1 | | 3 5 | |
| | (d) E928 | Other accidents caused by animals | | 3 | 1 | 1 | 5 | |
| | (e) E910, E911 | | | | | | | |
| | E913-E915 | | | | | | | |
| | E921-E922 | >All other accidental causes | 4 | 51 | 48 | 10 | 113 | 1 |
| | E924-E926 | | | | | | | |
| | E930-E965 | 0 511 1 W. W. W. 151- | | | | | | |
| AE 148 | E970-E979 E980-E985 | Suicide and self-inflicted injury | ** | 1.50 | 2.5 | 4.0 | 2.5 | 2.5 |
| AE 149 | E990-E999 | Homicide and injury purposely inflicted by other persons (not in war) | 3 | 10 | 26 | 2 | 41 | |
| AE 150 | E990-E999 | Injury resulting from operations of war | | 1 | 20 | | 1 | ** |
| TE 100 | Esso-Esso | injury resulting from operations of war | | | | | 100 | |
| | | | | | | | | |

" N "-ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (NATURE OF INJURY).

| Intermediate List Number | Detailed List Numbers | Cause Groups | Euro. | Fijian | Indian | Other | Totals | Death |
|--|--|---|-----------------------------|---------------------------------|---|---------------------------|---|---------------------------|
| AN 138 AN 139 AN 140 AN 141 AN 142 AN 143 AN 144 AN 145 | N800-N804 N805-N809 N810-N829 N830-N839 N840-N848 N850-N856 N860-N869 N870-N908 | Sprains and strains of joints and adjacent muscle | 2 7 17 1 3 6 | 11 15 55 10 17 6 | 13 17 128 6 16 11 3 70 | 1 4 6 3 2 | 27 43 206 17 39 25 3 159 | 2 3 1 1 3 |
| AN 146 AN 147 AN 148 AN 149 AN 150 | N910-N929 N930-N936 N940-N949 N960-N979 N950-N959 N980-N999 | Burns | 6 1 2 5 5 | 24 1 30 4 7 | 31 5 34 8 24 | 2 1 8 1 2 | 63 8 74 18 35 | 1 1 1 |

APPENDIX X

MOSQUITO AND FILARIASIS CONTROL

MALARIA PREVENTION PROGRAMME

Rigid inspection of surface vessels and aircraft at ports of entry was maintained during the period under review. Normal methods of mosquito-control were supplemented by regular residual-spraying of all buildings at the International Airport at Nadi, with fogging of vacant lands with the T.I.F.A. machine. All drainage-systems at the Airport were maintained in good order, and further sections were sealed with concrete. All Airports were kept free from Aedes aegypti.

FILARIASIS CONTROL PROGRAMME

The Filariasis Control Inspectors were stationed in all areas of the Colony. They made regular visits to villages and schools, giving advice on the eradication of Aedes scutellaris pseudo-scutellaris, the main vector of filariasis in Fiji. The inspectors gave formal lectures, followed by advice on the control measures necessary. Each Inspector is accompanied on his rounds by a Provincial or District Constable who issues formal instructions to the village chiefs to carry out the control measures advised in each case. The village constables, in the eastern islands of Lau, have been trained as Filariasis Control Inspectors, so that transport between the islands on tours of inspection has been made unnecessary.

THE HETRAZAN EXPERIMENTS

These were begun in 1952, with the visit of a trained team, under an Assistant Medical Practitioner, to the island of Beqa, for a sample blood-survey of the whole population. Results of this blood-microfilaria survey were as under:—

| | Males | Females | All population |
|---------------------------|-------|---------|----------------|
| No. of Persons Examined . | 355 | 397 | 750 |
| Microfilaria Rate* | 197 | 166 | 181 |
| Elephantiasis Rate | 31 | 23 | 27 |
| "Other Filarial" Rate | 206 | 164 | 184 |
| True Filarial Rate† | 327 | 282 | 303 |

^{*} Rates quoted are cases per mille of total population.

From the above Table it is seen that one-third of this island population was found to be suffering from some degree of infection with the microfilariae of elephantiasis.

All the 136 persons showing positive microfilarial tests were started on treatment by Hetrazan 150 mg. per diem for seven days, with follow-up tests and further treatment at six-monthly intervals.

A further experiment was started late in 1952 in the Ra Province of Viti Levu Island, where the following rates had been found in the course of a sample blood-survey:—

| | Males | Females | All population |
|-------------------------|-------|---------|----------------|
| No. of persons examined | 742 | 681 | 1,423 |
| Microfilaria found in | 190 | 148 | 170 |

This second group of patients was treated with a reduced dose of 50 mgm. Hetrazan on one day per month continuously, with test counts for microfilariae each six months.

The results of the experiments were as follows:-

(1) Bega Island-Given 50 mgm. three times daily for seven days:-

| | Initial m/f counts | | | | At start | | months | After 12 months | | |
|-------------|--------------------|---------|--|-----|----------|-----|--------|-----------------|------|--|
| | per cc | | | No. | RPM* | No. | RPM* | No. | RPM* | |
| 0 | | | | | 1 | 71 | 634 | 62 | 554 | |
| 1- 5 | | | | 19 | 170 | 23 | 205 | 32 | 286 | |
| 6-10 | | | | 32 | 330 | 7 | 63 | 6 | 54 | |
| 11- 30 | | | | .10 | 89 | 10 | 89 | 9 | 80 | |
| 31 50 | | | | 11 | 98 | 1 | 9 | 1 | 9 | |
| 51-100 | | | | 30 | 268 | | | 2 | 18 | |
| 100 + | | | | 5 | 45 | | | | | |
| All blood p | ositiv | e cases | | 112 | 1,000 | 41 | 366 | 50 | 446 | |
| Average m | f cour | nt | | 40 | 0 | | 29 | | 43 | |

[†] The "True Filariasis Rate" is obtained by summation of (a) cases showing microfilaraemia; (b) cases showing signs of elephantiasis but no microfilaraemia; (c) cases showing other signs of filariasis, e.g. typical fever, abscesses, etc., but no microfilaraemia.

(2) Ra Province-Given 50 mgm. one day a month throughout:-

| | Initial | | | Ats | start | After 6 | months | After 12 months | | |
|-----------------------|---------|---------|-----|-------|-------|---------|--------|-----------------|-----|--|
| m/f counts per cc. | | | No. | RPM * | No. | RPM* | No. | RPM* | | |
| 0 | | | | 04.4 | | 121 | 614 | 132 | 836 | |
| 1- 5 | | | 3.3 | 75 | 475 | 29 | 184 | 25 | 158 | |
| 6-10 | | | | 24 | 152 | 1 | 6 | 1 | 6 | |
| 11-30 | | | | 41 | 260 | | | | | |
| 31- 50 | | | | 9 | 57 | | | | | |
| 51-100 | | | | 9 | 57 | | | | | |
| 100 + | | | | | | | | | | |
| All blood p | ositiv | e cases | | 158 | 1,000 | 30 ′ | 190 | 26 | 165 | |
| Average m | /f cour | nt | | 13 | 36 | 3 | | | 4 | |

* RPM - Rate per mille.

Comparison of these results has justified the conclusion that a single tablet taken on one day a month will keep the microfilarial rate at less than five per cc. over a period.

Further experiments with Hetrazan in various doses are now in progress in other areas of the Colony.

TRAINING SCHOOL FOR ANTI-MOSQUITO INSPECTORS

During 1952, 26 students passed through the School, and 15 in 1953.

Six Fijian members of the Staff of the Division were absent on military service in Malaya with the Fiji Military Forces, and there formed a headquarters Mosquito Control Unit.

FILARIASIS AND INSECTICIDE RESEARCH

Through a grant from the United Kingdom Development and Welfare Fund the Colonial Office has made available the services of Mr. C. B. Symes, O.B.E., Entomologist and Adviser to the Colonial Office in the use of insecticides. Mr. Symes arrived in Fiji in December 1953, to undertake research in the control of insects by the use of insecticides with special reference to filariasis. This work will extend for a period of three years.

APPENDIX XI

NUTRITION WORK 1952 AND 1953

Nutrition activities in the Colony fall into two categories. (1) Research activities which are undertaken by the Nutrition Section of the South Pacific Health Service: (2) Hospital Dietetics carried out by a Dietitian and Housekeepers in the main and district hospitals.

In 1952-53 two Nutritionists were employed by the South Pacific Health Service, and one Dietitian was appointed by the Medical Department to reorganize the catering at Tamavua Tuber-culosis Hospital. Throughout the year one Nutritionist worked on education and research in Fiji.

NUTRITION ACTITIVIES

1. Research—A series of three seasonal nutrition surveys were carried out at Naduri Fijian Village, Sigatoka. The purpose of these surveys was to determine whether the diet of the people was influenced by the agricultural development project which was being carried out in this com-

munity.

2. A survey of heights and weights was made at two Fijian Schools in Ovalau. One school

2. A survey of heights and weights was made at two Fijian Schools in Ovalau. One school is at Moturiki where a school lunch programme has been in force for two years, the other school has no programme. The survey will attempt to determine whether the school lunch effects the rate of growth of Fijian children.

EDUCATION

Courses in nutrition and diet therapy were given to junior and senior classes of Nurses and Medical Students. Medical students receive 17 hours of lectures and Nurses 8 hours practical and 14 hours lecture during their respective courses. Lectures were also given to teachers in training, for the Education Department. Fifty-two radio talks on tropical foods and nutrition were given over the local radio and the same number of articles were prepared for the local press. Sets of five posters on infant feeding prepared in Fijian, and English were distributed to public health workers in the Colony.

HOSPITALS AND OTHER INSTITUTIONS

The kitchens for the new Central Medical School building and the Central Nursing School, were planned in conjunction with the Public Works Department, and advice was given on suitable cooking equipment. Advice on catering was given to government and mission institutions in the Colony. Simple special diets and out-patients notes were prepared in all languages for the Medical Department. The catering at the Tuberculosis Hospital was reorganized.

FOOD SUPPLIES

In June, the Senior Nutritionist attended the F.A.O./W.H.O. 3rd Regional Nutrition conference for South East Asia. Following this, discussions were held with the Fiji Agricultural Department concerning the establishment of a fish pond. One small pond was made as an experiment and Tilapia mossambica was imported from Malaya.

Further encouragement has been given to the use of dried skim milk in the Colony. This is now sold in all the townships and it is used in the child welfare programme. It is proving a valuable source of protein.

Following collaboration with the Nutritionist, the Prisons Department established a bulk food purchasing scheme for Government Institutions. The Nutrition Section advises on economical types of food suitable for use in these institutions.

APPENDIX XII

CENTRAL MEDICAL SCHOOL 1952 AND 1953

The four year Medical and Dental Courses leading to qualification as Assistant Medical Practitioner and Assistant Dental Practitioner respectively remained as before with considerable increase in the teaching in the Dental course due chiefly to the assistance afforded by the presence in 1952 of Dr. Cloud and in 1953 of Dr. Udick on loan from the United States Trust Territory.

In 1952 a five year medical course of considerably higher standard was introduced. Nineteen were enrolled including five Fijian Women, seven Fijian Men, five Fiji Indians and one Tongan. Of these all but two obtained passes at the end of the year.

During 1952 courses were being undertaken by students from Fiji and 11 other territories. Fijians and Fiji Indians comprised about 30 per cent of the students, the United States Trust Territories Islands formed about 25 per cent and the remainder came from other territories in the South West Pacific.

While not strictly a part of the Medical School considerable instruction is given with medical and dental students (particularly in the first years) to students enrolled in Pharmacy, Sanitation, Laboratory and Radiography courses. Nearly all of these students are housed in school quarters and consequently come directly under the discipline of the school.

| | | 1952 | 1953 |
|------------------------------------|------|------|------|
| Medical Students in Residence | | 124 | 123 |
| Dental Students in Residence | | 30 | 23 |
| Other Students in Residence (Pharm | acy, | | |
| Sanitation, Laboratory, etc.) | | 32 | 27 |
| Total Students in Residence | | 186 | 173 |
| Medical Students not in Residence | | 5 | |
| Dismissals (Disciplinary) | | 2 | 1 |
| Dismissals (Academic) | | 9 | 7 |
| Graduating Class—Medical | | 9 | 28 |
| Graduating Class—Dental | | 3 | 2 |
| Post-Graduate Students | | 5 | 4 |

ACCOMMODATION

About half the students in 1952 and again in 1953 occupied what must be considered temporary quarters in Suva and the other half at Tamavua. The Medical Department is fully aware of the inadequacy of these quarters, and is patiently awaiting the completion of the new school building which will be ready for occupancy in 1954. It should be recorded that the students have shown commendable understanding of the situation and have accepted it with good humour. Meanwhile classroom accommodation has been exceeding difficult with the increase in size of the school, and only by almost superhuman effort was more practical work in science, anatomy and physiology achieved in 1953.

STAFF

The full time teaching staff in 1952 comprised Dr. A. S. Frater, M.B.E., Principal, Dr. A. R. Edmonds, M.B., B.S., Assistant Principal, September to December and Dr. H. L. Cloud, D.D.S., Dental Educator on loan from the United States Pacific Trust Territory. Dr. Frater resigned in August, 1953 when Dr. Edmonds became acting Principal, and Dr. E. W. Udick, D.D.S., replaced Dr. Cloud on the completion of his secondment from United States Pacific Trust Territory. The school establishment was increased by the appointment of Miss J. Reay, Science Lecturer.

Part-time teaching was provided by the Medical Officers of the Colonial War Memorial Hospital, the Pathologist as from January, 1953, and staff of the dental and health departments. Their services are provided without a remuneration. Mr. D. M. Ellerton, B.D.S., was appointed Senior Dental Officer, June 1953, and assumed responsibility for the direction of the dental course and the colony's dental services. Prior to his appointment Ratu I. L. Vosailagi acted in that capacity. Two part-time lecturers were employed during the period under review to assist in the teaching of the basic science subjects. It is appreciatedly recorded that Dr. D. J. Oldmeadow undertakes the whole of the obstetrics teaching in the maternity department of the Colonial War Memorial Hospital.

HEALTH

Despite the crowded condition of the school living accommodation the health of the students has been reasonably good. 1953 saw less hospital admissions than 1952. A not inconsiderable number of these admissions were occasioned by football injuries. Respiratory tract infectious and boils were the most prevalent other conditions.

SPORT

A Football ground at Suva and the Colonial War Memorial Hospital and Tamavua Hospital Nurses Tennis Courts provide playing space for the students. Rugby Union and Association Football teams are both doing well in the competitions and the students are showing progress in tennis. An equable distribution of Sports Fund money is difficult, but the school helps by providing transport, within reason, for matches in all forms of sport undertaken.

COLONIAL WAR MEMORIAL HOSPITAL, TAMAVUA AND OTHER HOSPITALS

The backbone of the teaching of the Assistant Medical Practitioner and Assistant Dental Practitioner must lie in the hands of their clinical instructors. Sincere thanks are accorded to the Medical and Dental Officers and other workers in the Colonial War Memorial Hospital and Tamavua Hospital; the Central Laboratory and Health Departments who have, under many difficulties carried out the clinical and practical teaching of the students. Particular mention is made of Dr. Gosden, the Government Pathologist for her teaching of Bacteriology, Histology, Pathology, Forsenic Medicine and Clinical Pathology.

It should be fully realized that the staffing of a hospital which is used for teaching requires more staff than a purely service hospital.

APPENDIX XIII

CENTRAL MEDICAL RESEARCH LIBRARY

ANNUAL REPORT 1952 AND 1953

The work of the Library includes the following:-

- Acquisition of new books.
 Classification of new books.
- 3. Cataloguing of new materials received.
- 4. Assistance to students and others.
- 5. Bibliographical work for members of medical staff.
- 6. Lending books and periodicals.
- 7. Circulation and distribution of duplicate journals.
- 8. Clerical work.
- 9. Catalogue cards for periodicals.
- 10. Binding, repairing and care of books, etc.

During 1952 £2,000 of the original grant was spent on the acquisition of books and new furniture. The Colonial Office granted an extension of time for the use of these moneys up to December 1952. Nearly 1,000 volumes were purchased including such valuable additions to the reference sections as the <code>Encyclopaedia-Britannica</code> and the Quarterly Comulative Index Medicus. This means that while in comparison with overseas libraries stock is small, the Colony nevertheless now possesses the nucleus of an excellent working unit which careful additions in the coming years will enlarge to a fine body of medical literature.

Cataloguing and classification has been, and will continue to be, the main work of the librarian. A dictionary catalogue is being built up. For this work the international rules of the American Library Association have been adhered to and all material is classified under the Barnard system, a scheme evolved for tropical medicine.

During the year 1953 nearly 1,072 volumes were received in the Library. 263 volumes were purchased. The balance of the volumes were donated by the Guam Medical School, World Health Organization, South Pacific Commission, and the Medical Department, Suva. The total pamphlets received during the year were 55. Textbooks and other reading materials selected for acquisition during the year, were approved by the members of the Library Committee. Nearly 3,400 catalogue cards were prepared and written for all material received. All cards were arranged in alphabetical order under "letter by letter" or "all through" system.

The students of the Central Medical School and pupil nurses of the Colonial War Memorial Hospital had the use of the Library. They borrowed an average of 150 volumes per week. Assistance was given to students to find materials required for their purposes, and textbooks were also given on loan.

Most of the bibliographical enquiries during the period under review referred to the British Medical Journal, Nature, Lancet, Archives of Diseases in Childhood, Journal of Bacteriology, Biochemical Journal, the Practitioner, The Journal of American Medical Association and Endeavour. Most of the questions were answered through the aid of Quarterly Comulative Index Medicus, which is completed up to Volume 50, December, 1951. Many back numbers of periodicals were missing, but towards the end of the year some missing numbers were received through the aid of the Library Association.

Duplicate periodicals received in the library, were circulated among various medical officers and some periodicals were distributed to the medical staff.

All accumulated papers, such as indents, invoices, bills, and general correspondence were filed properly and separately. Separate files were also opened for each indent and all their corresponding papers from 1950 were filed accordingly. An index catalogue was prepared for the filing system. Catalogue Cards were also made and prepared for all new books placed for order to the Crown Agents. This system will give efficient checking for any book received.

Personal cards for all books and periodicals given on loan were made. Books which were given on loan during 1952 were collected by the aid of this new system. A thorough check was made for each borrower and many books were discovered and collected. Lists of over-due books were prepared each quarter. A notice board for overdue books was also made and displayed in the library for students' attention.

All periodicals received during the year were entered in catalogue cards under their respective titles and main headings. Catalogue cards for all "duplicate" journals and "missing numbers" were kept and the transactions were entered accordingly. The following periodicals were received during the year.

- 1. Abstract of World Medicine.
- 2. Abstract of World Surgery, Obstetrics and Gynaecology.
- 3. American Medical Association, the Journal of-
- 4. American Review of Tuberculosis.
- 5. Archives of Diseases in Childhood.
- 6. Archivum Chirugicum Neerlandicum.
- 7. Australian Pharmaceutical Notes and News.
- 8. Bacteriology, Journal of-
- 9. Biochemical Journal.
- 10. Biological Chemistry, Journal of-
- 11. British Journal of Experimental Pathology.
- 12. British Journal of Radiology.
- 13. British Journal of Surgery.
- 14. British Medical Journal (up to 11th July, 1953 only).
- 15. Dental Magazine and Oral Topics.
- 16. Excerpta Medica.
 - (i) Anatomy.
 - (ii) Internal Medicine.
 - (iii) Medical Microbiology and Hygiene.
 - (iv) Obstetrics and Gynaecology.

 - (v) Surgery. (vi) Tuberculosis.
- Experimental Medicine, Journal of—
- 18. Fiji Royal Gazette (through Principal, C.M.S.)
- 19. Health Education Journal.
- 20. Health Horizon.
- 21. Hospital and Health Management.
- 22. Hygiene, Bulletin of-
- 23. Lancet.
- 24. Library Association Record.
- 25. Libraries, Bulletin for-
- 26. Medical Journal of Australia.
- 27. Medical Officer.
- 28. Mother and child.
- 29. NAPT Bulletin.
- 30. Nature.
- 31. Nutrition, The Journal of-
- 32. Pathology and Bacteriology, the Jou nal of-
- 33. Pharmaceutical Journal.
- 34. Pharmacy International.
- 35. Practical Mechanics.
- 36. Practitioner.
- 37. Royal Sanitary Institute, Journal.
- 38. Science News Letter.
- 39. Transactions of the Royal Soc. of Trop. Medical and Hyg.
- 40. Tropical Diseases Bulletin.
- 41. Tropical Medicine and Hygiene, the Journal of-
- 42. Tuberculosis Index and Abstracts.
- 43. What's new?
- 44. W.H.O. Bulletin.
 - (ii) Chronicle of

 - (iii) Epidemiological Reports. (iv) International Digest of Health Legislation.
 - (v) Reliève Epidemiological.
 - (vi) Weekly Fasciculus.

The British Medical Association of (Fiji Branch), has also stored its periodicals in the library, and the following were received during the year.

Abstract of World Medicine.
 Abstract of World Surgery, Obstetrics and Gynaecology.

3. Annals of Rheumatic Diseases. 4. Archives of Diseases in Childhood.

5. British Heart Journal.

6. British Journal of Industrial Medicine.

- British Journal of Pharmacology and Chemotherapy.
 British Journal of Preventive and Social Medicine.
- British Journal of Social Medicine.
 British Journal of Venereal Disease,
 British Medical Bulletin.

- Clinical Pathology, the Journal of—
 Medical and Biological Illustration.
- 14. Neurology Neurosurgery and Psychiatry, the Journal of

15. New Zealand Medical Journal.

16. Obstetrics and Gynaecology of the British Empire, the Journal.

17. Thorax.

All books with hard covers were treated with book varnish and clear varnish before they were put on shelves. All books and other materials except journals, were marked with "accession No." and "location No.", a system by which books could be easily traced if required. All periodicals were kept in a group with their previous numbers and on completion were forwarded to the Government Printer for binding into volumes. From July to December 1953, approximately 257 volumes of journals were bound by the Government Printer. The titles on all bound journals were done in the library. Several textbooks and other reading materials were found damaged they were repaired in the library and brought into good handling condition.

Mrs. Frater, Librarian, resigned with effect from 21st July, 1953; since then Mr. Salim Baksh has performed the duties of Librarian.

APPENDIX XIV

METEOROLOGICAL REPORTS FOR 1952 AND 1953.

| Laucala Ba | | | SUVA | 2000 |
|---|--------------------|--------------------|---|--|
| | 1952 | 1953 | 195 | |
| Rainfall— Total | 119-69 | s 91-49s | Total | 3s 0s —6-27s |
| Departure from normal— Wet days (0-01 or more) | . 221 | 216 | Wet days (0-01 or more) 17 Wettest day on— 27th June 17-9 | |
| July 12th | | 5-84s | | |
| Temperatures- | 00.1 | 00.0 | Temperatures— | |
| Mean Maximum | | 82-3 | Mean Maximum 83 | C. C |
| Highest recorded | 90-0 on Feb. 26 | 91-2 on Feb. 13 | Highest recorded 92-2 . Dec. 1 | on 93-0 on Feb. 13 |
| Mean Minimum | mo o | 77-2 | Mean Minimum 72- | |
| Lowest recorded | A | 62-8 on | Lowest recorded 61-0 | |
| appricat resource 11. | Aug. 23 | Aug. 31 | Aug. 2 | |
| Mean Temperature & (Max - Min | | 77-2 | Mean Temperature 1 (max = Min) 77- | |
| Departure from normal | | | Departure from normal =0- | |
| Mean Temperature at 9 a.m. | | 78-3 | Mean Temperature at 9 a.m 79- | |
| Humidity— Mean Humidity at 9 a.m. | 79-6= | 79-0= | Humidity— Mean Humidity 9 a.m 76 | 2 76-2 |
| Bright Sunshine- | 0005.0 | 1005.0 | | |
| Total hours | | 1865-3 | | |
| Mean Daily | 5-3 | 5-1 | | |

Outstanding features of 1952 were the severe hurricane of January 28th, a Southerly gale on May 16th, and semi-drought conditions from July 24th to November 1st. Suva had 18 consecutive days without rain. August with a total fall of 1.72" was the driest and sunniest August for 26 years. Suva the mean temperature was 0.5°F, above normal.

The outstanding feature of 1953 was the prolonged drought conditions which prevailed from August to December. July was the wettest on record in Suva.

Thunderstorms, some severe, were frequent up to early April. A severe one occurred on June 10th.

The prevailing wind direction 75 per cent was East with a mean speed of seven knots. A tropical storm in the New Hebrides pass about 250 miles south of Suva on March 8th and a shallow depression to the West between 5th and 7th December brought heavy and much needed rain to the whole of the group, with heaviest falls in the North and West.

APPENDIX XV

URBAN/TOWNSHIP/RURAL SANITARY DISTRICTS OF FIJI REPORT OF HEALTH INSPECTOR FOR YEARS OF 1952 AND 1953

1-SUMMARY OF INSPECTIONS

| | 1952 | | 15 | 153 | 1952 | 1953 |
|---|-----------------|------------|------------------|---------------------|-----------------|--------|
| Type of Premises, etc. | Inspec- tion | Re-inspec- | Inspec- tions | Re-inspec- tions | Total | Total |
| In the Second Second Second | 29,354 | 11,889 | 21,336 | 13,305 | 41.049 | 91.011 |
| Iouse to house Inspection of district | 000 | 678 | 807 | 974 | 41,243 1,504 | 34,641 |
| | 707 | | 593 | 425 | 797 | 1,781 |
| lew buildings sites—before approval | | 587 | | | | 1,018 |
| lew buildings works in progress | 1,473 | 72 | 1,529 | 1,146 | 2,060 | 2,675 |
| nvestigation of infectious disease and disinfection | 999 | 53 | 445 194 | 1/2/2 | 384 | 528 |
| hipping | 004 | 33 | 928 | **** | 342 | 194 |
| ircraft | | 860 | | 1 700 | 884 | 928 |
| louse let as lodgings and lodging houses | 40.4 | 0.00 | 489 | 1,709 | 1,980 | 2,198 |
| actories and workshops | | 118 | 292 | 302 | 542 | 594 |
| emeteries | | 33 | 105 | ***** | 338 | 108 |
| chools | | 62 | 291 | 144 | 424 | 433 |
| hecking sanitary services (a/cs, etc.) | | | 324 | ***** | 1,187 | 324 |
| aundries | | 239 | 765 | 167 | 864 | 933 |
| lairdressers, chiropodists, etc | | 168 | 451 | 446 | 1,094 | 397 |
| oodshops, foodstores, markets, etc | | 869 | 3,273 | 438 | 3,792 | 3,711 |
| ating houses and ice cream premises | | 499 | 1,459 | 797 | 2,619 | 2,256 |
| erated water and ice factories | | 101 | 648 | 408 | 426 | 1,056 |
| ava saloons | | 33 | 162 | 10 | 231 | 172 |
| akehouses | | 114 | 580 | 67 | 806 | 647 |
| Sutcher shops | | 25 | 204 | 54 | 237 | 258 |
| laughterhouses | | 17 | 120 | 26 | 152 | 146 |
| ood vehicles | | 21 | 403 | 137 | 418 | 540 |
| lawkers premises | | 30 | 30 | 3 | 157 | 33 |
| hops other than food shops | | 46 | 9 | 1111 | 288 | 5 |
| Pairies, hotel, boarding house | | 14 | 51 | 15 | 77 | 66 |
| nspection of gangs work | | **** | 511 | **** | 432 | 511 |
| anitary survey of ships | | 77 | 75 | **** | 150 | 78 |
| liscellaneous | 483 | 120 | 41 | 22 | 603 | 50 |
| Total . | 47,306 | 16,725 | 36,098 | 20,668 | 64,031 | 56,766 |

| 2—Writt | EN N | OTICE | s. Ero | Issu | ED | |
|-----------------------------|--------|-------|---------|------|-------|-------|
| | | | ., | | 1952 | 1953 |
| Intimation Notices served | | | | | 3,219 | 3,957 |
| Statutory Notices served . | | | | | 56 | 182 |
| Buildings Surveyed for Clos | sure o | r Den | nolitio | n | 368 | 326 |
| Closing Orders served | | | | | 172 | 324 |
| Demolition Orders served | | | | | 48 | 118 |
| Buildings Demolished after | servi | ce of | Order | s- | | |
| By Owners | | | | | 92 | 178 |
| By Local Authority | | | | | 1 | 5 |

3—BUILDING APPLICATIONS DEALT WITH

| | | 1952 | 1953 | | |
|--|-----------------------------|-----------------------------|----------------------|-----------------------------|--|
| | No. | Value | No. | Value | |
| Applications in respect of New Buildings . Applications in respect of Alterations and Repair Applications in respect of Septic Tanks | s 106 | £612,784 16,369 2,096 | 1,699 189 58 | £808,839 41,248 8,014 | |
| Buildings Completed and Passed of Applications Outstanding in Registron Completed) at end of year— | during year ster (work i | £631,213 1952 873 | 1.939 1953 526 | £858,101 | |
| New Buildings | | 694 53 22 | 2,738 210 107 | | |

| 4—SUMMARY OF SANITARY IMPROVEMENTS | , ETC. (/ | ALL TYPES OF | PREMISES.) | |
|--|----------------|----------------|----------------|--------------|
| | 1952 | | 1 | 953 |
| Items | Order | Completed | Order | Completed |
| Repairing of buildings | 329 | 269 | 384 | 379 |
| Improvements to Lighting and Ventilation of | 001 | 100 | 100 | 055 |
| Buildings | 224 | 183 | 463 | 257 |
| Removal of Unauthorized Erections | 86 | 65 | 189 | 158 |
| Abatement of Overcrowding | 124 | 86 | 110 | 1 272 |
| New Privies (all types) | 1,527 2,710 | 1,315 2,260 | 1,385 1,997 | 1,272 |
| Repairing, Cleansing or Flyproofing of Privies | 997 | 859 | 801 | 1,704 767 |
| Filling in of Insanitary Privies | 174 | 113 | 234 | 220 |
| New Bathrooms or Washing Places | 1/4 | 110 | 204 | 220 |
| | 775 | 601 | 555 | 422 |
| A | 211 | 146 | 250 | 186 |
| Developer of Classica of Vitabana | 463 | 377 | 594 | 470 |
| Develois of New Dealers | 627 | 464 | 592 | 456 |
| Repairing or Cleansing of existing Drains | 1,992 | 1,674 | 1,589 | 1,467 |
| | 192 | 172 | 288 | 188 |
| Description of Walls | 523 | 418 | 552 | 475 |
| AT TO TO TO | 62 | 46 | 68 | 46 |
| Repairing, Screening or Cleansing of Water Tanks | 112 | 104 | 237 | 126 |
| Removal of Accumulations of Refuse, etc | 3,924 | 3,622 | 3,119 | 2.819 |
| C1 : 10 11 Y C | 3,126 | 2,872 | 3,198 | 2,622 |
| TO THE TOTAL PROPERTY OF THE PARTY OF THE PA | 623 | 565 | 1,388 | 1,001 |
| Abatement of Nuisances from Animals or Poultry . | 719 | 623 | 6,649 | 1,110 |
| 11 1 1 1 1 D 11 | 1,717 | 1,759 | 1,082 | 938 |
| CI C I D I D | 721 | 689 | 929 | 740 |
| C. I. T. I. P. I. D. I. | 101 | 90 | 717 | 527 |
| Cleansing of Food Vehicles | 152 | 143 | 261 | 252 |
| Improvements to Food Vehicles | 78 | 63 | 213 | 208 |
| Cleansing or Improvement of Hairdressers Premises | 247 | 216 | 151 | 128 |
| Classic Target of Target and Targ | 126 | 93 | 97 | 85 |
| 01 1 1 1 1 1 1 | 41 | 22 | 115 | 33 |
| CI I CLICK | 134 | 90 | 137 | 85 |
| The second second | 36 | 36 | 76 | 76 |
| | 1,421 | 1,160 | 726 | 680 |
| Miscellaneous | 1,721 | 1,100 | 720 | 000 |
| Total | 24,294 | 21,195 | 24,146 | 19,985 |
| | | | | |
| 5—Mosquito Co | ONTROL | | | |
| | 1952 | | 1953 | |
| Dramicas Inspected for Masquita Larvas | 20,041 | | | |
| Premises Inspected for Mosquito Larvae | | | 16,912 | |
| Premises at which larvae found | 1,872 | | 1,420 | cont |
| Larval Index | 9-34 | per cent | 8-29 per | cent |
| | | | | |
| 6—Disinfection, Disinfest | ATION A | ND FUMIGATI | ON | |
| | | 1952 | 1953 | |
| Type of Premises or Vessels Method | i | No. | | |
| Oversees Vessels HCN | | 15 | 7 | |
| O TOLOGO TOGOTO II II ALIGINI II | | 10 | | |

| Type of Premises | or Ves | ssels | Method | | | 1952 No. | 1953 No. |
|------------------|---------|--------|--------------------|--------|------|-------------|-------------|
| Overseas Vessels | | | H.C.N | | | 15 | 7 |
| " | | | Aerosol Bomb | | | 19 | 13 |
| Local Vessels | | | H.C.N | | | 75 | 50 |
| " | | | Formalin Cyllim | Zalde | cide | 5 | 41 |
| Dwellings | | | Formalin Zaldec | | | 170 | 287 |
| ,, | | | D.D.T | | | 5 | 5 |
| Aircraft | | | Aerosol Bomb | | | 379 | 328 |
| International De | ratting | g Cert | ificates Issued | | | 16 | 11 |
| International De | ratting | g Exe | mption Certificate | s Issu | ed | 1 | 3 |

7-ANTI-RAT MEASURES

| | 1 | 1952 | 1 | 953 | 1952 . | 1953 |
|------------------------------|------------------|----------------------|------------------|----------------------|--------|-------|
| | Rattus Rattus | Rattus Norvegicus | Rattus Rattus | Rattus Norvegicus | Total | Total |
| Rats destroyed by trapping . | . 2,428 | 1,212 | 449 | 485 | 3,640 | 934 |
| Rats destroyed by fumigation | | | | to better fire | 3 | 18 |
| Overseas shipping | . 78 | 5 | 18 | | 83 | 19 |
| Local shipping | . Nil | Nil | 19 | | Nil | Nil |
| Aircraft | . 47 | 42 | Nil | Nil | 11,988 | 4,701 |

8-FOOD INSPECTION AND SAMPLING

| Unsound foodstuffs | condemn | ed and des | stroyed-General 1952, 14 | ,367 lb. | ; 1953, | 46,363 lb |
|--------------------------|---------|------------|--------------------------|----------|---------|-----------|
| | 198 | 52 1953 | | | 1952 | 1953 |
| Food and Water samples t | aken- | | | | | |
| Milk—Genuine | 60 | 3 69 | Fresh water (Bact.) . | | 152 | 104 |
| Non Genuine | 21 | 1 65 | Salt water baths (Bact. | .) | 45 | 13 |
| Ice cream—Genuine | 20 | 25 | Aerated water | | 4 | 4 |
| Non Genuine | 52 | 2 41 | Water chemical | | | 55 |

9-LEGAL PROCEEDINGS

Defendants, offences and results of action-

| Pub | Public Health Ordinance | | | Pure Foo | | | | |
|-------------|-------------------------|--|--------|----------|-------------|------|------|-----------|
| | | | 1952 | 1953 | | | 1952 | 1953 |
| Cases | | | 23 | 61 | Cases | | 22 | 39 |
| Convictions | | | 21 | 59 | Convictions | | 19 | 37 |
| Penalties . | | | £62 10 | 0 £149 | Penalties . | | £161 | £277 19 0 |

10—Remarks and Details of any other Special Works carried out during the month under Review

| Sanitation Campaig | n | | 1952 | 1952 |
|-----------------------|---|----|---------|------|
| Squatting slabs sold | | | 390 | 267 |
| Pedestal Slabs sold . | | 33 | 44 | 52 |



