

## **Report of the Chief Medical Officer / Barbados.**

### **Contributors**

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# ANNUAL REPORT

OF THE

## Chief Medical Officer

FOR THE YEAR

### 1948-49

PRICE : — — TWENTY FOUR CENTS

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1950

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1950



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Chief Medical Officer's Office  
Government Buildings  
The Ward, Bridgetown, Barbados  
30th December, 1949

I have the honor to acknowledge the information of the receipt of the report on the health and sanitary conditions of Barbados for the year 1948-49.

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

JOSEPH P. O'MAHONY  
Chief Medical Officer

The Honourable  
The Colonial Secretary,  
Barbados

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# ANNUAL REPORT

## OF THE

# Chief Medical Officer

FOR THE YEAR 1948—49.

### PART I. LEGAL.

1. The activities recorded in this Report for the year 1st April, 1948 to 31st March, 1949, are governed by the following laws of the Colony:—

The Poor Relief Act, 1892—2.

The Druggists Act, 1894—3.

The Lepers Act, 1904—4.

The Infants Vaccination Act, 1907—6.

The Lunacy Act, 1907—8.

The Public Health Act, 1908—8.

The Quarantine Act, 1909—3.

The Medical Registration Act, 1911—6

The Chief Medical Officer and Sanitation Officer Act, 1928—8.

The Midwives and Nurses Registration Act, 1932—1

The Dangerous Drugs Act, 1936—3.

The Bridgetown Housing Act, 1936—8..

The Dairies Act, 1942—17.

The Voluntary Vaccination Act, 1947—11.

The Barbados General Hospital Act, 1947—28.

2. The Department of Medical Services Act, 1947—14 and the Quarantine Act, 1947—38 mentioned in the last Annual Report have not yet been proclaimed.

3. The New Ordinance relating to Public Health was under consideration by the Legislature but time did not allow of its final passage before the close of the Session. It is hoped to re-introduce this important measure, which has for its object such immanent and transitive benefits to the community, in the new Legislative Session.

4. More modern legislation is needed to take advantage of medical and public health progress and knowledge.

### PART II. GENERAL REMARKS.

5. The health of the Colony remained generally satisfactory during the year under review. The absence of the quarantinable diseases and epidemics of any serious disease contributed to the maintenance of this state.

6. General diseases were similar to those of previous years. More detailed information follows in the various sections. However, it is to be noted from the statistics available in the appendices to this Report that the diseases of early infancy, of the digestive system and of infective and parasitic origin continue to be foremost in causing death. Preventive measures can play a major part in reducing this wastage of human life and the inauguration of public health services to this end is undeniably and urgently needed.

### PART III. VITAL STATISTICS.

7. The following are the principal vital statistical data for the year ending 31st December, 1948:—

Estimated population .. .. .	202,800
Deaths registered .. .. .	3,141
Birth rate per 1,000 of the population .. .. .	32.94
Deaths registered .. .. .	3,141
Death rate per 1,000 of the population .. .. .	15.49
Infant mortality rate .. .. .	148
Maternal mortality per 1,000 live births .. .. .	1.65
Still birth rate per 100 live births .. .. .	2.41

8. Tables showing a summary of the causes of death in each parish and in age groups for the whole Island are given in Appendices V and VI.

#### Comments:

9. The population on the 31st December, 1948 was computed as follows:—

Estimated population 31st December, 1947 .. .. .	199,090
Excess of births over deaths .. .. .	3,539
Excess of Immigration over Emigration .. .. .	171

Population at 31st December, 1948:— .. .. . 202,800

	Males	Females	
Immigration .. .. .	9,115	6,902	16,017
Emigration .. .. .	8,826	7,020	15,846
Arrivals by air .. .. .			10,562
Departures by air .. .. .			10,935

### PART IV. ADMINISTRATIVE.

#### The Present Organisation.

##### A. PUBLIC HEALTH

10. The Central Authority consists of a General Board of Health and the Chief Medical Officer who is a member of the Board. Local authorities are composed of eleven boards known as Commissioners of Health appointed on a parochial basis from the Vestry. The Central Authority has a Sanita-

tion Officer and a small force (six) of Sanitary Inspectors at their disposal for supervising work in the parishes. Each local authority appoints sanitary inspectors varying in number with the size of the parish, with the parishes of St. Michael and Christ Church employing six and one Health Nurses respectively in addition to the Sanitary Staff.

#### B. MEDICAL AID.

11. Parochial Medical Officers are employed by the Vestry in each parish for the purpose of attending the poor and carrying on the medical work at the Almshouses. An Inspector of Poor for each parish investigates the circumstances of sick persons and issues tickets for free medical aid when necessary. The Chief Medical Officer has certain statutory duties to perform in connection with poor relief in the parishes.

### PART V. STAFF AND INSTITUTIONS.

#### Staff:

12. The following medical officers were employed by the Government:—

- Whole-time: The Chief Medical Officer  
 The Sanitation Officer  
 The Bacteriologist and Pathologist  
 The Port Health Officer.
- Part-time: The Assistant Port Health Officer  
 The Visiting Physician, Leper Hospital  
 The Prison Medical Officer  
 The Visiting Physician, Government Industrial Schools  
 The Visiting Obstetrician, Maternity Hospital  
 Six Police Medical Officers.

#### Institutions:

13. **The Barbados General Hospital:** Operating as a Department of Government under the provisions of the Barbados General Hospital Act, 1947—28, the staff is comprised as follows:—

- Whole-time: One Medical Superintendent  
 One Surgeon Specialist  
 One Radiologist
- Part-time: Three Visiting Surgeons  
 Three Assistant Visiting Surgeons  
 One Ophthalmic, Ear, Nose, and Throat Surgeon  
 One House Surgeon and Anaesthetist  
 Three House Surgeons  
 One Medical Officer, Venereal Disease Clinic  
 One Assistant Medical Officer, Venereal Disease Clinic  
 Three Out-patient Medical Officers  
 One Dental Surgeon.

Nursing:           One Matron  
                       One Assistant Matron  
                       One Sister Tutor  
                       Three Nursing Sisters.

14. The re-organisation of the surgical work of the Hospital under the supervision of the Surgeon-Specialist has resulted in improved services to the public. In addition, he performed the duties of Medical Superintendent aided by an Advisory Committee.

15. During the greater part of the year serious shortage of senior nursing staff presented great difficulties but the arrival of the Assistant Matron and two Nursing Sisters in the latter months eased a very serious situation.

16. The post of Radiologist remained vacant throughout the entire year with resultant serious diminution of service and usefulness of the Hospital.

17. The accommodation at the Hospital does not suffice for the needs of the community and the question of enlarging and improving the present Hospital or the provision of a new one is under consideration.

18. Having regard to the benefits of the re-organisation of the surgical services at the Hospital a similar and immediate aim is most desirable for the re-organisation of the medical services. To this end the appointment of a Medical Specialist is essential so that this General Hospital may provide the more balanced service expected of it.

19. Statistical tables relating to the work of the Hospital for the period under review will be found under Appendices XIV—XVII.

#### 20. **The Mental Hospital**

**Staff:** One Medical Superintendent  
           Two Assistant Medical Superintendents  
           One Matron.

21. The Medical Superintendent was absent on pre-retirement leave from the opening of the year.

22. Dr. G. Campbell Young, Assistant Medical Superintendent, acted as Medical Superintendent during the period under review. Aided by a part-time Visiting Medical Practitioner he preserved the reputation of the Institution for excellent work. Dr. G. Campbell Young has been appointed Specialist Psychiatrist, Uganda, and will leave for his new post on the arrival of the newly appointed Medical Superintendent, Lt.-Col. R. M. Lloyd-Still, M.R.C.S., L.R.C.P., I.M.S., who is expected shortly.

23. Major H. M. S. G. Beadnell, M.R.C.S., L.R.C.P., newly appointed Assistant Medical Superintendent, arrived in the Colony on the 13th of March and assumed duty.

24. Thirty-five dormitories, 6 day rooms and 391 single rooms supply the accommodation for patients and of these four dormitories and eighty single rooms were constructed on the male and female side during the year. At the end of March, 1949, there were 757 patients in residence, 329 males and 428 females.

25. Two occupational sheds, one each for the male and female side of the institution were constructed for the use of patients being instructed in handicrafts.

26. The expenditure in connection with the institution was £52,523.  
12. 4. This does not take account of the provisional cost of capital works and maintenance under public works departmental estimates.

27. Modern physical methods are available in the treatment of patients.

28. **The Leper Hospital.** In May, 1948, Dr. Ernest Muir, Medical Secretary, British Empire Leprosy Relief Association, visited the Institution and recommended the use of surphetrone in place of diazone then in use in the treatment of leprosy. This recommendation has been implemented. The beneficial effects of this modern treatment is apparent not only on the disease but also on the mental outlook of the patients.

29. The following information is of interest :—

No. of inmates in residence at 31st March, 1949 .. .. .	38
No. of persons isolated at home during 1948/49 .. .. .	0
New admissions during 1948/49 .. .. .	4
Re-admissions during 1948/49 .. .. .	1
Discharges during 1948/49 .. .. .	3
Deaths during 1948/49 .. .. .	2
Expenditure for the financial year 1948/49 .. .. .	£ 8,975 11 6
After-care of discharged lepers .. .. .	£ 1,050 12 3

30. Of the total of twenty-two admissions for the period 1940-1948, 15 cases arose in the urban area which may be considered as a focus.

31. There is need for health and welfare visiting services to discharged lepers and case contacts and public health services based on modern legislation would meet this need.

### The Maternity Hospital

32. The Maternity Hospital of twenty beds, operating essentially as a teaching hospital, is under the immediate supervision of a Matron and Visiting Obstetrician. Facilities are provided for the training of ten registered nurses over a period of twelve months, and of ten untrained women for a period of eighteen months. Of the ten nurses who completed their training in January, 1949, nine passed the examination.

33. Miss M. Tucker, Matron, resigned her post on 30th November, 1948. Miss J. McKay Ross, the newly appointed Matron, assumed duty on 7th March, 1949.

34. The following records the work of the hospital :—

Deliveries .. .. .	320
Maternal morbidity (eclampsia) .. .. .	1
Still births .. .. .	11
Prematurity .. .. .	9
Foetal abnormality .. .. .	1
Asphyxia Pallida .. .. .	1
Neo-natal deaths .. .. .	1
Haemorrhagic disease of the new born .. .. .	1
Instrumental deliveries .. .. .	3

35. The ante-natal clinic attached to the Hospital continues to operate successfully. It provides twice-weekly for the ante-natal care of those to be delivered in the Hospital and at their homes.

Ante-natal attendances .. .. .	2,927
New cases .. .. .	758

Positive Khan tests on new cases .. .. .	128
% of positive Kahn tests in new cases .. .. .	17%
Post natal returns .. .. .	212

36. **The Prison Hospital.** There is accommodation for male and female prisoners in separate wards. The rate of illness was 2.3 among males and 0.9 among females.

### The Government Industrial Schools

37. **The Government Industrial Schools.** The year was a healthy one generally both for the boys and girls. There was no epidemic disease.

### Parochial Almshouses

38. **Parochial Almshouses.** The standards of medical care within the parishes and the respective almshouses continue of a high order and Boards of Guardians execute their responsibilities with care and interest. The maintenance of buildings continues to be good in general.

### Voluntary Agencies

39. There are five voluntary agencies operating in the interest of the infant and child. Clinics are operated by the following four:—

**The Baby Welfare League,** managed by a Committee of ladies whose active interest is reflected in the admission of 305 babies and 2,510 attendances during the year. Medical supervision is provided.

**The St. Lawrence Child Health Centre** where very good standards continue to the benefit of an average clinic attendance of 33 children. This clinic realises the importance of home visiting and a close link with the parish medical and sanitary authorities.

**St. Philip Baby Welfare Centre** continues its fine effort and a total attendance of 1,688 for its first year with an average weekly attendance of 32 is a measure of the interest displayed.

**The Christ Church Baby Welfare League** continued its good efforts in Christ Church parish. During the year, the average attendance of children who received treatment and nourishment was 162 monthly.

**The Children's Goodwill League** provided care for 40 children in its creche and in addition 63,062 meals were served to necessitous school children. The health of the children in the creche was good during the year. Such excellent work supplies a real need in the community.

### The Nightengale Memorial Home For Children

40. This home provides for the care of destitute children between the ages of 5—18 years from the parish of St. Michael. Twenty boys and eleven girls were accommodated during the year. It is capably administered by the Board of Guardians of the parish and excellently supervised by the Matron who is trained in General Nursing and Social Welfare. The provision of this home has enabled an exchange from the unsatisfactory atmosphere of almshouses to excellent living conditions for child life. An extension of these facilities to other parishes would be a most welcome improve-

ment. The health of the children was satisfactory and medical attention is provided by the two parish medical officers.

### **Nursing Services**

41. The General Nursing Council functioned regularly during the year.
42. The Barbados Nurses Association—a private organisation—operates a nurses employment bureau and continues to administer a Government grant amounting to \$2,184 under the supervision of the Chief Medical Officer. Two District Nurses are employed who visit some schools and provide treatment for minor ailments there and in the homes. Some advice is given in ante-natal and infant care and cases referred by medical practitioners are provided with the necessary care.

## **PART VI.—GENERAL AND COMMUNICABLE DISEASES**

43. Figures in this part of the Report and the statistical tables in the Appendices refer to the calendar year 1948.

### **General Diseases.**

4. **Cancer and other Tumours** were responsible for 166 deaths representing 5.28% of total deaths.
45. **Diseases of the Circulatory System** were responsible for 397 deaths representing 12.64% of total deaths.
46. **Intracranial lesions of vascular origin** accounted for 251 deaths representing 7.99% of total deaths. These causes represented 87% of the deaths due to diseases of the Nervous System and Sense Organs.
47. **Diseases of the Respiratory System** caused 193 deaths representing 6.14% of total deaths. Deaths from pulmonary tuberculosis and whooping cough are not included in this category.
48. **Diseases of the Digestive System** accounted for 360 deaths, representing 11.46% of total deaths.
49. **Diseases of the Genito-Urinary System** were the cause of 182 deaths representing 5.79% of total deaths. Of this number 90% were caused by nephritis.
50. More detailed information is given in the appendices to the Report and special attention is drawn to the eight major causes of death as classified under the Intermediate International List of Causes of Death. These statistics are shown for the period 1941/8.

### **Communicable Diseases**

51. **Enteric Fever:**— 98 cases were reported as against 97 in 1947. Of these fifteen or 15% died. As reported cases are never a true index of the extent of the disease in the community, the incidence of this disease continues to remain too high and raising the standards of sanitation and increasing protection by the appropriate vaccine is most desirable. Model latrines to abate the nuisance of improper disposal of excreta continue to be made available to the public.
52. **Tuberculosis:**— 101 cases were notified as against 99 in 1947. Statistics are available in Appendix XI to the Report which cover a period of

years. It can be reasonably assumed that while tuberculosis is not a major problem in the rural areas, the incidence and rate in the urban area of Bridgetown and St. Michael's parish continue to remain too high and its attack by accepted public health measures is needed.

53. **Dysentery:**— Five cases were reported as against fifteen in 1947. These figures cannot be regarded as a true index of its prevalence. Differentiation is not made between the bacillary and amoebic types.

54. **Diphtheria:**— Twelve cases with two deaths were notified as against fifteen in 1947. Free antitoxin and free prophylactic toxoid continues to be made available free to medical practitioners.

55. **Venereal Diseases:**— Though not notifiable, the five types occurred during the year. Of the 196 deaths caused by syphilis or 6.24% of total deaths, 104 occurred within the first year of life and fifteen occurred from the first to the fourth year. Accurate figures of the extent of venereal disease in the community are not available but reference to the statistical table relating to the causes of death in the first year of life shows congenital syphilis causing 10.53% of infant deaths and reference to the positive index of Kahn Test in the part of the Report relating to the Maternity Hospital gives some indication of the extent of syphilis in a selected but small group of expectant mothers. Venereal disease control should be expected to pay good dividends.

56. **Leprosy:**— Two new cases were reported, the same as 1947. Two deaths occurred. The use of sulphetrone continues to give encouraging results. Special reference to this disease is made in that part of the Report relating to the Leper Hospital.

57. **Tetanus:**— 41 deaths occurred as a result of the disease. Of this number 27 were infants under one year of age, undoubtedly due to infection of the "cord" at birth. The supply of well trained midwives resulting from the establishment of the Maternity Training Hospital should abolish this cause of death in infancy.

58. **Cerebro-spinal meningitis:**— Four cases with four deaths were reported as against eight in 1947. It is hoped that this favourable incidence will be maintained.

59. **Malaria:**— The Colony continues to remain free and anopheline mosquitoes were not found during the year. Disinsectisation of schooners and aircraft continues routinely.

60. **Poliomyelitis:**— One case occurred which died.

61. **Whooping Cough:**— 18 deaths occurred and 12 of these were in the first year of life.

## PART VII. QUARANTINABLE DISEASES.

62. No cases of any of the five quarantinable or "Convention" diseases were notified during the year.

63. It is essential that modern quarantine legislation should be immediately available so that the health of the Colony may receive that measure of protection provided by those internationally recognised methods embodied in such legislation.

64. As an aid to the "barrier" techniques empowered in such legislation which are designed to exclude the importation of these diseases or

limit their spread once imported, certain control measures operate internally.

65. Rat and mosquito control measures continue at the Port of Bridgetown and the Airport at Seawell supervised by the Chief Sanitary Inspector to the Board of Health and Airport Visiting Officer respectively. General mosquito control operates in the parishes.

66. **Smallpox vaccination:**—252 infants were protected by vaccination during the year. Having regard to the number of births and infant deaths, an increment of about 3,000 non-immunes are introduced into the population annually, a very unsatisfactory state of immunity in the population to smallpox would occur in time.

67. This depressingly low figure of smallpox vaccination performed arises through **ignorance, indifference** and opposition to infant vaccination. To dispel this **ignorance** and **indifference** it is considered most advisable to state that every opportunity should be taken through the family doctor and public vaccinators to explain to parents the advantages of primary vaccination in infancy, and to warn them that the full measure of protection against smallpox which vaccination can afford the community will not be obtained unless every healthy child is provided (by means of a first vaccination done during infancy) with a basic immunity against smallpox which should, with little or no subsequent trouble, be maintained on entering and leaving school and on going abroad.

68. Opposition to infant vaccination, as distinct from indifference to it, is sometimes based on remembrance by the parent of some pain or discomfort personally experienced or from an exaggerated fear of its risks. The modern method of vaccination by multiple pressure is almost painless and is unlikely to cause severe local reactions and any real danger is extremely small if vaccination is performed from the sixth to the twelfth month of infancy.

## PART VIII. GENERAL SANITATION.

69. The administration of hygiene and sanitation continued to be administered by eleven separate and independent parochial boards of Commissioners of Health who employ sanitary inspectors. Composed of laymen and operating without expert advice, real and uniform progress presents great difficulties. Such expert advice is envisaged in the new Public Health Bill which has not yet been passed.

70. Raising of the standards of parish inspectorial services is advisable and more uniformity in the standard of selection for the posts of sanitary inspectors is needed throughout the Colony.

71. The General Board of Health continued to function during the year. Its Inspectors continued to visit the parishes and a summary of their services is supplied under Appendix IV.

72. Forty-three model latrines were supplied free by the Medical Department to various parishes as an aid in improving rural sanitation.

73. **Water Supplies:**—Close liaison was maintained with the Waterworks Department. Chlorination at the Belle Pumping Station was advised and introduced and all public water supplies are now chlorinated.

74. **Housing:**—The Housing Board operates under the provisions of the Bridgetown Housing Act, 1936—8. Legislation to establish a Central Authority for the entire Colony with powers in relation to slum clearance and town planning was introduced into the Legislature which has not yet given in final consideration.

75. At the Belfield area in the suburbs of Bridgetown, sixty-eight houses were placed, having been cleared from congested areas. These were provided with sanitary units and a domestic water supply. This type of development is very interesting and promising.

76. A further improvement was made in the Deacons Road Housing Scheme of sixty-six houses where the dry earth type of sanitary unit was converted to a water carriage system.

77. Thirty-eight houses were built on the Pine Estate. Built of local coral stone with kitchen, toilet and bath, they present a most desirable development but high cost of construction and the maintenance of good standards are factors which may defy reconciliation.

78. An interesting experiment was started by the Architect and Planning Officer in connection with "megcrete" blocks for building purposes, the composition of which is megasse and lime with a cement finish.

#### PART IX. FOOD SUPPLIES AND NUTRITION.

79. Good conditions prevailed during the year for the growing of locally produced provision. Price control and subsidisation of flour, rice, salt fish, etc., continued and an adequate supply maintained. These factors helped to maintain the nutritional level of the general population.

80. **School Meals:**—All elementary school children continue to be supplied with a school meal composed either of cows' milk or powdered skimmed milk and food yeast biscuits.

81. **Institutions:**—All institutions availed themselves of food yeast as a normal inclusion in the daily diet and for curative purposes.

82. **Almshouses:**—A number of these supply food yeast to the inmates and general interest has been stimulated towards its wider use.

83. Food yeast is at present supplied from Jamaica in bags of 150 lbs. It would be of the greatest advantage to nutrition of the general population if this excellent product could be available in small packages for retail supply.

#### PART X. SCHOOL HEALTH.

84. At present there is no organised school medical service. Free dental service continued to be given by two part-time dentists and 5,860 children were provided with dental care.

85. 273 children suffering from visual defects received treatment by the Senior Visiting Ophthalmic Surgeon of the General Hospital and 95 children were provided free with spectacles.

#### PART XI. PUBLIC HEALTH EDUCATION.

86. Instruction in Hygiene and Sanitation is given to elementary school children by their teachers.



APPENDIX I

PAROCHIAL EXPENDITURE ON SANITATION FOR 1948-49.

St. Michael .....	\$155,739.09
Christ Church .....	27,243.63
St. George .....	5,293.23
St. Philip .....	6,283.57
St. John .....	3,804.91
St. James .....	5,024.28
St. Thomas .....	4,349.15
St. Peter .....	6,955.65
St. Lucy .....	6,280.78
St. Joseph .....	6,077.76
St. Andrew .....	6,384.42
<b>Total .....</b>	<b>\$233,436.47</b>

PART XII FINANCE

The following financial statement is extracted from the financial statement of Revenue and Expenditure for the year 1948-49:

Chief Medical Officer's Dept.	2,700 0 2
General Hospital	80,758 6 2
Lunatic Asylum	22,572 12 4
Lazaretto	10,026 5 0
Board of Health	4,082 7 8
Port Law Board	500 0 0
Port Health Office	1,100 17 7
General Nursing Council	7 0 0
Maternity Hospital	4,782 6 3
Other Medical Services	2,100 12 0
Grants	
Barbados Nurses Association	500 0 0
Miscellaneous:	
Contingent expenses	88 3 11
<b>Total</b>	<b>1,184,558 6 2</b>

Revenue: General Hospital 2,168,713 11

Note: This statement does not include Cost of Living Allowance to personnel.  
 Dr. F. W. Gramann, Sanitation Officer, acted as Chief Medical Officer until my arrival on 25th November, 1948 when I assumed the duties of Chief Medical Officer.

JOSEPH P. O'MAHONY  
 Chief Medical Officer

## APPENDIX II.

## COST OF PAROCHIAL POOR LAW ADMINISTRATION, 1948-49

BARBADOS.

Parish	No. of persons who received any kind of Poor Relief	No. of persons who received Medical Relief	No. of persons who received Cash Relief	No. of persons who received Relief in kind.	No. of persons housed in Almshouse for non-medical reasons (Destitute)	No. of persons who received Medical relief in Almshouse	No. of persons buried at Parish expense	Total cost of relief
St. Michael ..	8,539	3,124	3,237	3,827	340	1,161	260	\$301,500.55
Christ Church ..	2,763	2,237	387	2	96	89	15	49,598.77
St. George ..	845	610	336	9	70	262	25	22,243.84
St. Philip ..	1,341	1,047	465	4	33	267	11	38,491.58
St. John ..	1,989	1,879	208	274	43	227	24	20,184.95
St. James ..	603	344	307	5	24	147	14	19,582.99
St. Thomas ..	967	890	112	4	24	156	7	19,235.83
St. Peter ..	613	452	144	—	29	180	4	18,983.31
St. Lucy ..	982	756	404	1	39	295	3	23,070.33
St. Joseph ..	635	544	156	20	23	132	3	15,921.23
St. Andrew ..	349	299	59	23	27	89	4	11,880.55
Total ..	19,626	12,182	5,815	4,169	748	3,005	370	\$540,688.93

## APPENDIX III

ANNUAL REPORT OF THE PORT HEALTH OFFICER  
FOR THE YEAR 1948

1. Dr. J. A. Browne continued as Acting Port Health Officer and Dr. W. F. Kerr as Acting Assistant Port Health Officer for the year.

2. Dr. Browne was on sick leave from 14th April to 30th November, 1948. Dr. A. V. Greaves acted in his stead for this period.

3. During the year 1,010 ships were admitted to the Port of Bridgetown, representing a total tonnage of 1,108,908. This tonnage was apportioned as follows:—

Steam and motor propelled vessels .. .. .	1,045,882
Sailing Ships .. .. .	63,026

The appended table shows the figures for five years:—

Year	No. of Ships	Tonnage
1944	682	241,068
1945	698	413,737
1946	910	863,742
1947	1,006	1,251,456
1948	968	1,108,908

4. One thousand two hundred and eighty-seven aeroplanes arrived in 1948. They carried 10,306 passengers for Barbados and 875 intransit. One hundred and forty-four passengers were placed under medical surveillance.

5. The total number of passengers arriving in Barbados by ship for the year was 1,781 1st Class; 199 2nd Class, and 3,610 3rd Class and Deck.

6. Twenty-seven passengers were placed under medical surveillance.

(Sgd.) A. V. GREAVES,  
Acting Port Health Officer.

TABLE "A"

Nationality	S.S.	Schs.	Yawls	Sloops	M.V's	Yachts	Warships	Dredges	Total
British ..	139	488	6	24	147	13	2	—	819
American ..	64	—	2	—	1	—	2	—	69
French ..	32	5	1	4	4	2	—	—	48
Dutch ..	15	—	—	—	10	—	—	—	25
Canadian ..	9	—	—	—	1	—	—	—	10
Norwegian ..	3	—	—	—	—	1	—	—	3
Argentine ..	4	—	—	—	1	—	—	2	8
Colombian ..	—	—	—	—	3	—	—	—	3
Venezuelan ..	1	—	—	—	2	—	—	—	3
Panamanian ..	11	—	—	—	—	—	—	—	11
Swedish ..	—	—	—	—	1	—	—	—	1
Uruguayan ..	—	—	—	—	—	1	—	—	1
Irish ..	—	—	—	—	—	1	—	—	1
Italian ..	3	—	—	—	—	—	—	—	3
Honduran ..	1	—	—	—	—	—	—	—	1
Spanish ..	—	1	—	—	—	—	—	—	1
Danish ..	1	—	—	—	—	—	—	—	1
Finnish ..	1	—	—	—	—	—	—	—	1
Greek ..	1	—	—	—	—	—	—	—	1
Total ..	285	494	9	28	170	18	4	2	1,010

## APPENDIX IV

SUMMARY OF WORK DONE BY THE INSPECTING FIELD FORCE  
FOR THE YEAR 1948-49

## (a) Inspections:—

Houses Inspected	..	..	..	..	..	17,397
Water Closets	..	..	..	..	..	1,580
Pit closets	..	..	..	..	..	8,390
Pail closets	..	..	..	..	..	1,830
Pails or buckets	..	..	..	..	..	1,072
Pit Holes	..	..	..	..	..	3,711
Privy middens	..	..	..	..	..	504
Using in common	..	..	..	..	..	817
Premises with animals	..	..	..	..	..	5,603
Urinals to stables	..	..	..	..	..	1,726
Manure heaps	..	..	..	..	..	1,090
Water receptacles	..	..	..	..	..	2,598
Surface wells	..	..	..	..	..	89

## (b) Nuisances:—

Full pit closets	..	..	..	..	..	135
Insanitary pit closets	..	..	..	..	..	26
Full and/or insanitary pails	..	..	..	..	..	192
Full and/or insanitary pit holes	..	..	..	..	..	83
Insanitary privy middens	..	..	..	..	..	4
Premises with no sanitary arrangements	..	..	..	..	..	69
Premises with disused tins, bottles, etc.	..	..	..	..	..	669
Structurally defective latrines	..	..	..	..	..	326
Manure heaps breeding flies	..	..	..	..	..	421
No. of premises on which mosquitoes were found breeding	..	..	..	..	..	279
Premises keeping animals contrary to bye-laws	..	..	..	..	..	20

## Rat Destruction

Poisonous bait set	..	..	..	..	..	27,644
No. of rats destroyed, trapped and found poisoned	..	..	..	..	..	6,505
No. of mice destroyed, trapped and found poisoned	..	..	..	..	..	2,075

## APPENDIX V.

CAUSES OF DEATHS REGISTERED DURING THE YEAR 1948

DISEASES	NUMBER REGISTERED IN																TOTAL								
	St. Michael		X. Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		M	F	Persons
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
I. Infective and Parasitic Diseases ...	122	105	12	15	23	21	20	22	9	35	12	13	6	3	9	5	12	16	6	6	5	8	236	249	485
II. Cancer and other Tumours ...	20	68	6	13	5	4	1	8	3	9	...	8	2	2	...	5	2	2	...	1	2	3	41	123	164
III. Rheumatism, Diseases of Nutrition and of the Endocrine Glands, Other General Diseases ...	14	27	1	3	...	2	4	1	3	2	1	1	...	6	2	3	...	1	1	1	2	1	28	48	76
IV. Diseases of the blood and Haematopoietic Organs ...	1	2	1	1	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3	6	9
V. Chronic Poisonings and Intoxications ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
VI. Diseases of the Nervous System and Organs of Special Sense ...	68	93	15	21	7	8	7	7	4	5	8	13	5	3	1	1	4	13	4	1	...	1	123	166	289
VII. Diseases of the Circulatory System ...	58	108	6	15	11	14	7	5	10	8	6	17	3	7	10	24	13	23	6	24	6	18	136	263	399
VIII. Diseases of the Respiratory System ...	49	46	11	13	7	9	5	6	5	4	2	7	2	3	4	3	5	1	1	4	3	2	95	98	193
IX. Diseases of the Digestive System ...	70	69	5	11	20	19	19	12	20	6	15	9	6	2	19	18	13	7	11	6	2	1	200	160	360
X. Diseases of the Genito-Urinary System ...	54	47	10	3	8	1	4	5	5	5	4	4	5	1	5	2	3	6	2	2	5	1	105	77	182
XI. Pregnancy, Labour and Puerperal State ...	...	7	...	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	11	11
XII. Diseases of the Skin and Cellular System ...	1	1	...	...	1	1	...	...	...	...	2	...	2	...	...	1	...	1	...	...	...	...	8	2	10
XIII. Diseases of the Bones and Organs of Locomotion ...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	3
XIV. Congenital Malformations ...	3	2	2	1	...	1	...	1	2	...	...	...	...	...	2	...	1	...	1	...	1	...	11	6	17
XV. Early Infancy ...	117	113	21	29	24	29	18	21	11	14	18	29	9	13	21	20	16	18	22	11	16	18	293	315	608
XVI. Senility ...	28	100	3	18	...	7	5	14	3	6	2	6	...	3	2	4	1	...	...	3	...	...	44	162	206
XVII. Violent or Accidental Deaths ...	14	...	5	1	2	...	1	1	1	...	...	...	1	...	1	1	...	...	2	1	...	1	27	5	32
XVIII. Causes of Death not determined ...	19	16	6	11	6	4	5	6	1	1	6	7	1	3	...	...	...	...	3	1	...	1	47	50	97
Total, All Groups ...	638	806	104	155	114	122	98	110	77	98	76	114	42	46	77	87	71	87	60	62	42	55	1,399	1,742	3,141

CAUSES OF DEATHS REGISTERED

SEX		AGE GROUP		RACE		DISEASES	CLASSIFICATION
M	F	M	F	M	F		
114	152	104	808	638	114	Total, All Groups	
8	11	8	18	10	19	Causes of Death not determined	XVIII.
2	1	2	11	9	14	Violent or Accidental Deaths	XVII.
...	...	...	100	93	93	Senility	XVI.
24	20	21	112	93	115	Fatal Intoxication	XV.
...	...	...	2	3	5	Concealed Malformations	XIV.
...	...	...	2	...	...	Locustion	XIII.
1	...	...	1	1	1	Diseases of the Bones and Organs of System	XII.
...	...	...	7	...	...	Diseases of the Skin and Cellular Tissues	XI.
...	...	...	10	...	...	Pregnancy, Labor and Puerperal State	X.
8	3	10	47	34	54	Diseases of the Genito-Urinary System	IX.
20	11	5	68	70	70	Diseases of the Digestive System	VIII.
7	18	11	48	49	49	Diseases of the Respiratory System	VII.
11	18	6	108	58	58	Diseases of the Circulatory System	VI.
7	21	15	93	68	68	Organs of Special Sense	V.
...	...	...	...	...	...	Diseases of the Nervous System and Chronic Poisonings and Intoxications	IV.
...	1	1	2	1	1	Organ	III.
...	3	1	27	14	14	Diseases of the blood and Hematopoietic Organs	II.
...	...	...	...	...	...	Genital Diseases	I.
...	...	...	...	...	...	Diseases of the Endocrine Glands, Other than the Thyroid Gland, and of the Adrenal Glands	
28	18	18	108	122	122	Infective and Parasitic Diseases	
2	18	8	58	30	30	Cancer and other Tumors	







CAUSES OF DEATHS ARRANGED BY AGE GROUP

Age Group	Sex												Total	Rate per 1,000
	M	F	M	F	M	F	M	F	M	F	M	F		
I. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS													
	V. CHRONIC POISONING AND INTOXICATION													
	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS													
	III. RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL DISEASES AND VITAMIN-DEFICIENCY DISEASES													
	Total Group III													
	Total Group IV													
	Total Group V													
	Total Group VI													
	Total Group VII													
	Total Group VIII													

Ref. No. (1)



CAUSES OF DEATH, ARRANGED IN ALPHABETIC ORDER

Age Group	Total				Total	Causes of Death	Ref. No. (1)
	M	F	M	F			
<b>VII. DISEASES OF THE CIRCULATORY SYSTEM</b>							
15-20	...	...	...	...	...	Pericarditis including chronic rheumatic pericarditis	43
20-25	...	...	...	...	...	Chronic alterations of the valves and endocardium	43
25-30	...	...	...	...	...	Diseases of the myocardium, including aneurysm of the heart	44
30-35	...	...	...	...	...	Disease of the coronary arteries and aneurysm of the heart	45
35-40	...	...	...	...	...	Other diseases of the heart	46
40-45	...	...	...	...	...	Atherosclerosis and embolism	47
45-50	...	...	...	...	...	Other diseases of the circulatory system	48
Total Group VII					...		
<b>VIII. DISEASES OF THE RESPIRATORY SYSTEM</b>							
15-20	...	...	...	...	...	Bronchitis	49
20-25	...	...	...	...	...	Pneumonia and broncho-pneumonia	50
25-30	...	...	...	...	...	Tuberculosis (non-tuberculous)	51
30-35	...	...	...	...	...	Other diseases of the respiratory system, except tuberculosis	52
Total Group VIII					...		
<b>IX. DISEASES OF THE DIGESTIVE SYSTEM</b>							
15-20	...	...	...	...	...	Ulcer of the stomach or duodenum	53
20-25	...	...	...	...	...	Dyspepsia and enteritis (under 2 years of age)	54
25-30	...	...	...	...	...	Dyspepsia, enteritis and ulceration of the intestine (2 years of age and over)	55
30-35	...	...	...	...	...	Appendicitis	56
35-40	...	...	...	...	...	Stricture, intestinal obstruction	57
40-45	...	...	...	...	...	Cirrhosis of the liver	58
45-50	...	...	...	...	...	Other diseases of the liver and biliary passages	59
50-55	...	...	...	...	...	Inclusion body colitis	60
55-60	...	...	...	...	...	Other diseases of the digestive system	60
Total Group IX					...		



CAUSES OF DEATHS, ARRANGED BY AGE-GROUPS—REGISTERED

No. of Deaths	Sex	10 years and over		5 years to 10 years		1 year to 5 years		CAUSES OF DEATH	No. of Deaths
		M	F	M	F	M	F		
								X. DISEASES OF THE URINARY AND GENITAL SYSTEMS (NOT VENEREAL OR CONNECTED WITH PREGNANCY OR THE PUERPERIUM)	
61								Nephritis	1
62								Other diseases of the kidneys and ureters	1
63								Calculi of the urinary passages	
64								Diseases of the bladder, except tumours	
65								Diseases of the urethra, urinary sheath, etc.	
66								Diseases of the prostate	
67								Other diseases of the genital organs, not specified as venereal or connected with pregnancy or the puerperal state	
								Total Group X.	1
								XI. DISEASES OF PREGNANCY, CHILD-BIRTH, AND THE PUERPERAL STATE	
68								Diseases and accidents of pregnancy	
69								Abortion without mention of septic conditions	
70								Post-abortive infection	
71								Infection during childbirth and the puerperium	
72								Other accidents and diseases of childbirth and the puerperium	
								Total Group XI.	
								XII. DISEASES OF THE SKIN AND CELLULAR TISSUE	
73								Diseases of the skin and cellular tissue	
								XIII. DISEASES OF THE BONES AND ORGANS OF MOVEMENT	
74								Diseases of the bones and organs of movement, except tuberculosis and rheumatism	

CAUSES OF DEATHS, ARRANGED IN AGE GROUPS, REGISTERED IN BARBADOS DURING THE YEAR 1948.

Ref. No. (1)	CAUSES OF DEATH (2)	Under one year		1 year to 3 years		3 years to 5 years		5 years to 10 years		10 years to 20 years		20 years &c.		30 years &c.		40 years &c.		50 years &c.		60 years &c.		70 years &c.		80 years &c.		90 years and over		Not stated		TOTAL				
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total		
<b>XIV. CONGENITAL MALFORMATIONS</b>																																		
75	Congenital malformations (still births excepted) ...	11	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11	6	17
<b>XV. DISEASES PECULIAR TO THE FIRST YEAR OF LIFE</b>																																		
76	Congenital debility ...	154	181	48	39	...	3	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	203	224	427
77	Premature birth (still-births excluded) ...	45	54	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47	57	104	
78	Injury at birth (still-births excluded) ...	3	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	2	5		
79	Other diseases peculiar to the first year of life ...	37	29	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	40	32	72		
	Total Group XV ...	239	265	53	44	...	3	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	293	315	608				
<b>XVI. SENILITY, OLD AGE</b>																																		
80	Senility, old Age ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	10	21	60	12	69	3	23	...	44	162	206			
<b>XVII. VIOLENT OR ACCIDENTAL DEATHS</b>																																		
81	Suicide ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	3	...	3		
82	Homicide ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
83	Automobile accidents (all motor driven road vehicles)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
84	Other violent or accidental deaths (automobile accidents excepted) ...	1	...	3	...	...	3	...	3	2	3	...	3	...	3	2	1	1	1	...	1	...	2	...	1	1	...	...	24	6	30			
85	Deaths of persons in military service during—and of civilians due to operations of war ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
86	Legal executions ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total All Groups ...	1	...	3	...	...	3	...	3	2	3	...	3	...	4	2	2	1	1	...	3	...	1	1	...	...	...	27	6	33				
<b>XVIII. ILL-DEFINED CAUSES OF DEATH</b>																																		
87	Causes of death unstated or ill-defined ...	2	1	2	3	1	...	2	1	...	2	...	2	7	3	6	2	7	6	5	...	10	10	14	4	4	1	1	...	47	49	96		
	Total All Groups ...	511	493	97	97	7	9	11	7	26	41	45	58	69	65	111	93	102	141	137	...	214	187	281	83	193	11	46	2	4	1,399	1,742	3,141	



## APPENDIX VII

Major Causes of Death in accordance with the Intermediate International List of Causes of Death.

1946.

1946 Census population:	Urban	{Bridgetown	..	..	76,218
	Rural	{St. Michael	..	..	116,582

Classi- fication	Total No of Deaths	Urban Deaths	Per 100,000	
			Urban Rate	Rural Rate
I Infective & Parasitic ..	499	284	373	184
XV Early Infancy .. ..	447	177	232	231
IX Digestive System .. ..	342	135	177	177
XVI Senility .. .. ..	309	158	207	130
VII Circulatory System ..	303	135	177	144
VI Nervous System .. ..	297	145	190	130
X Genito-Urinary .. ..	246	123	161	106
II Cancer .. .. ..	162	85	111	66

## APPENDIX VIII

## Major Causes of Death in accordance with the Intermediate International List of Causes of Death.

1941 — 1948.

Year	Classification		No. of Deaths	% of Total Deaths
1941	IX	Diseases of the Digestive System ..	659	16.88
	I	Infective & Parasitic Diseases ..	570	14.61
	XV	Early Infancy .. .. .	549	14.07
	VII	Diseases of Circulatory System ..	500	12.81
	VIII	Diseases of Respiratory System ..	367	11.97
	VI	Diseases of Nervous System .. ..	316	8.10
	X	Genito-Urinary System .. ..	287	7.36
1942	XVI	Senility .. .. .	272	6.97
	XV	Early Infancy .. .. .	527	16.09
	VII	Diseases of Circulatory System ..	475	14.50
	I	Infective & Parasitic Diseases ..	451	13.77
	IX	Diseases of Digestive System ..	411	12.55
	X	Diseases of Genito-Urinary System ..	266	8.12
	XVI	Senility .. .. .	243	7.43
1943	VIII	Diseases of Respiratory System ..	239	7.30
	XV	Early Infancy .. .. .	472	15.21
	I	Infective & Parasitic Diseases ..	448	14.43
	VII	Diseases of Circulatory System ..	443	14.27
	VIII	Diseases of Respiratory System ..	368	11.86
	IX	Diseases of Digestive System ..	301	9.70
	XVI	Senility .. .. .	270	8.70
	VI	Diseases of Nervous System .. ..	261	8.41
1944	X	Genito-Urinary System .. ..	218	7.02
	I	Infective & Parasitic Diseases ..	545	16.31
	XV	Early Infancy .. .. .	532	15.92
	IX	Diseases of Digestive System ..	384	11.49
	VII	Diseases of Circulatory System ..	323	9.67
	VIII	Diseases of Respiratory System ..	323	9.67
	VI	Diseases of Nervous System .. ..	257	7.69
	X	Genito-Urinary System .. ..	251	7.54
1945	XVI	Senility .. .. .	237	7.09
	I	Infective & Parasitic Diseases ..	468	14.79
	VII	Diseases of Circulatory System ..	423	13.37
	XV	Diseases of Early Infancy .. ..	371	11.73
	IX	Diseases of Digestive System ..	359	11.35
VIII	Diseases of Respiratory System ..	319	10.08	

## APPENDIX VIII —Cont'd

Year	Classification		No. of Deaths	% of Total Deaths
	VI	Diseases of Nervous System .. .. .	307	9.70
	X	Genito-Urinary System .. .. .	242	7.65
	XVI	Senility .. .. .	172	5.44
1946	I	Infective & Parasitic Diseases .. .. .	499	15.17
	XV	Early Infancy .. .. .	447	13.59
	IX	Diseases of Digestive System .. .. .	342	10.40
	XVI	Senility .. .. .	309	9.39
	VII	Diseases of Circulatory System .. .. .	303	9.21
	VI	Diseases of Nervous System .. .. .	297	9.03
	X	Genito-Urinary .. .. .	246	7.48
	II	Cancer .. .. .	162	4.62
1947	XV	Early Infancy .. .. .	588	18.35
	I	Infective & Parasitic Diseases .. .. .	464	14.48
	VII	Diseases of Circulatory System .. .. .	451	14.39
	IX	Diseases of Digestive System .. .. .	338	10.55
	VI	Diseases of Nervous System .. .. .	272	8.49
	VIII	Diseases of Respiratory System .. .. .	271	8.46
	XVI	Senility .. .. .	222	6.93
	X	Genito-Urinary .. .. .	214	6.68
1948	XV	Early Infancy .. .. .	608	19.36
	I	Infective & Parasitic Diseases .. .. .	485	15.44
	VII	Diseases of Circulatory System .. .. .	397	12.64
	IX	Diseases of Digestive System .. .. .	360	11.46
	VI	Diseases of Nervous System .. .. .	289	9.20
	XVI	Senility .. .. .	206	6.56
	VIII	Diseases of Respiratory System .. .. .	193	6.11
	X	Genito-Urinary .. .. .	182	5.79

APPENDIX IX

CAUSES OF DEATHS REGISTERED OF INFANTS UNDER 1 YEAR DURING THE YEAR 1948

	NUMBER REGISTERED IN														TOTAL											
	St. Michael		X. Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		M	F	Persons	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F						
Under 1 day ...	10	7	1	1	3	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	21		
1 day — 6 days ...	39	38	2	2	7	7	6	6	4	4	1	1	3	3	2	2	2	2	2	2	2	1	4	69		
7 days — 1 month ...	14	18	4	7	5	5	2	2	1	3	2	2	2	2	6	4	2	2	5	1	1	1	3	52	48	
<b>Total under 1 month</b>	<b>63</b>	<b>63</b>	<b>7</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>11</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>9</b>	<b>138</b>	<b>138</b>	<b>276</b>
1 month — 2 months	23	23	4	3	5	10	5	4	2	6	7	9	2	1	10	5	2	5	5	1	6	3	74	67		
3 months 5 months...	53	28	4	5	7	7	11	10	8	6	11	11	2	4	10	6	7	8	8	1	1	2	125	94		
6 " 8 months...	39	37	5	8	11	8	15	8	6	12	8	12	..	2	9	8	5	8	5	6	6	5	119	110		
9 " 11 months...	17	25	2	2	8	10	6	5	6	5	3	4	2	2	5	6	9	4	1	4	1	60	70			
<b>Total under 1 year...</b>	<b>195</b>	<b>176</b>	<b>22</b>	<b>28</b>	<b>43</b>	<b>50</b>	<b>46</b>	<b>36</b>	<b>28</b>	<b>40</b>	<b>33</b>	<b>40</b>	<b>13</b>	<b>11</b>	<b>42</b>	<b>33</b>	<b>28</b>	<b>35</b>	<b>17</b>	<b>19</b>	<b>20</b>	<b>378</b>	<b>341</b>	<b>719</b>		
																						<b>516</b>	<b>479</b>	<b>995</b>		

## APPENDIX X.

## BARBADOS.

## Infant Deaths by age in months, % Distribution; 1948.

Age at Death	Deaths in First Year of Life	
	Number	% Distribu- tion
Under 1 Year .. .. .	995	100
Under 1 Month .. .. .	276	28
Under 1 Day .. .. .	40	4
1 — 6 days .. .. .	136	14
7 days — 1 month .. .. .	100	10
1 — 11 months .. .. .	719	72
1 — 2 months .. .. .	141	14
3 — 5 months .. .. .	219	22
6 — 8 months .. .. .	229	23
9 — 11 months .. .. .	130	13

*NOTE:* Of the 6,680 infants born alive in 1948, 276 died in the first month of life; the *neo-natal mortality rate* therefore was 41 per 1,000 live births.

Of the 6,404 infants that survived the first month of life, 719 died before completing the first year of life; the mortality rate for infants in the second to twelfth month of life, therefore, was 107 per 1,000 infants alive at the beginning of the second month of life.

The Infant Mortality Rate was 148 per 1,000 live births.

*Comparative figures for the U.K., U.S.A., and Barbados.*

Country.	Infant Mortality Rate.	Neo-natal Rate	Rest of first year.
United Kingdom .. .. . 1947	41.4	25.4	Not available
„ „ .. .. . 1948	34	20	14
United States of America .. .. . 1940	47	29	10
Barbados .. .. . 1948	148	41	107

## APPENDIX XI

BARBADOS.

## Infant Deaths by age in months for the year 1948.

Age at Death	Deaths in First Year of Life.			
	URBAN		RURAL	
	Number	% Distribu- tion	Number	% Distribu- tion
Under 1 Year ..	371	100	624	100
Under 1 Month ..	126	34	150	24
Under 1 Day ..	17	5	23	4
1 — 6 days ..	77	20	59	9
7 days — 1 month ..	32	9	68	11
1 — 11 months ..	245	66	474	76
1 — 2 months ..	46	12	95	15
3 — 5 months ..	81	22	138	22
6 — 8 months ..	76	20	153	25
9 — 11 months ..	42	12	88	14

## APPENDIX XII

## BARBADOS.

## Causes of Death in the First Year of Life.

Number of Deaths, % Distribution, for the Year 1948.

Cause of Death	Deaths in First Year of Life	
	Number	% Distribution
All Causes .. .. .	995	100
Pre-natal and natal causes .. .. .	485	49
Premature birth .. .. .	107	11
Congenital malformations .. .. .	9	1
Injury at birth .. .. .	13	1
Congenital debility .. .. .	46	5
Other diseases peculiar to the first year of life .. .. .	179	18
Syphilis .. .. .	104	10
Tetanus .. .. .	27	3
Respiratory Diseases .. .. .	72 (a)	7
Gastro-intestinal Diseases .. .. .	242 (b)	24
Epidemic and other communicable diseases .. .. .	15	2
Malnutrition .. .. .	138	14
All other specified causes .. .. .	31	3
Ill-defined and unknown causes .. .. .	12	1

(a) Pneumonia and other Respiratory Diseases.

(b) Chiefly gastro-enteritis.

## APPENDIX XIII

## BARBADOS.

## Causes of Death in the First Year of Life.

Number of Deaths, % Distribution, for the Year 1948.

Cause of Death.	Deaths in First Year of Life.			
	URBAN		RURAL	
	Number	% Distrib.	Number	% Distrib.
All Causes .. .. .	371	100	624	100
Pre-natal and natal causes ..	209	56	277	45
Premature Birth .. .. .	51	14	56	9
Congenital malformation .. ..	4	1	11	2
Injury at Birth .. .. .	6	2	7	1
Congenital debility .. .. .	15	4	47	7
Other diseases peculiar to 1st year of life .. .. .	83	22	80	13
Syphilis .. .. .	40	11	64	10
Tetanus .. .. .	10	2	17	3
Respiratory .. .. .	28	8	44	7
Gastro-Intestinal Diseases .. ..	79	21	163	26
Epidemic and other communi- cable diseases .. .. .	2	0.5	11	2
Malnutrition .. .. .	43	12	89	14
All other specified causes .. ..	8	2	18	3
Ill-defined or unknown causes	2	0.5	17	3

## APPENDIX XIV

## BARBADOS.

## TUBERCULOSIS: Deaths and Death Rate per 100,000 population.

Years.	No. of Deaths	Death Rate per 100,000 pop. (estimated)
1930/4 ..	111 (mean)	62.6
1935/9 ..	115 "	60.3
1940/4 ..	122 "	60.7
1945/8 (4 yrs.)	121 "	59.8

## TUBERCULOSIS: Deaths and Death Rate per 100,000 population, using the 1946 Census Year population of 195,398.

Year.	No. of Deaths	Death Rate per 100,000 pop.
1945 .. ..	114	58.3
1946 .. ..	119	60.9
1947 .. ..	112	57.3
1948 .. ..	139	71.1

## TUBERCULOSIS: Death Rate per 100,000 living, Urban and Rural.

Year.	Urban.	Rural.
1933 .. ..	80	36
1942 .. ..	127	31
1948 .. ..	117	38

APPENDIX XV

**Barbados General Hospital**

A. TABLE SHOWING THE ADMISSIONS FOR THE FIVE YEARS ENDED ON 31ST MARCH, 1949

Barbados.

Year	St. Andrew										Grand Total				
	Xt. Church	St. John	St. Philip	St. Joseph	St. George	St. Thomas	St. James	St. Peter	St. Andrew	St. Lucy		Total from out Parishes	St. Michael	Seamen	Other Non-Residents
1944-45	649	206	265	167	280	212	209	172	109	155	2,424	3,211	104	30	5,769
1945-46	738	219	303	199	397	233	233	228	91	135	2,776	3,850	54	44	6,724
1946-47	789	267	357	207	534	248	291	215	136	134	3,178	4,210	67	42	7,497
1947-48	1,017	286	371	171	436	315	282	201	147	161	3,387	4,074	68	21	7,550
1948-49	1,083	314	351	230	491	358	342	202	148	201	3,720	4,477	53	38	8,288

B. STATISTICAL TABLE OF INDOOR DEPARTMENT FOR THE FIVE YEARS ENDED ON 31ST MARCH, 1949

Year	ADMISSIONS			DISCHARGES						DEATHS			NUMBER TREATED				MORTALITY			
	Total	Female	Male	Cured	Relieved	No Result	Incurable	Total	Average Stay of	Longest stay in Hospital	Male	Female	Total	Average stay of	No. of Deaths in Hospital at end of previous year.	No. of Admissions	Total under Treatment	Rate of Mortality	No. of Deaths Within 48 Hours	Rate of Mortality Exclusive of These.
1944-45	2,939	2,830	1,109	3,157	1,797	402	2	5,358	15	256	232	167	399	7	234	5,769	6,003	6.7	168	3.9
1945-46	3,410	3,314	1,274	3,904	1,953	393	0	6,250	14	279	249	209	458	7	246	6,724	6,970	6.6	174	4.1
1946-47	3,514	3,983	1,497	3,782	2,733	536	1	7,052	14	253	226	216	442	8	262	7,497	7,759	5.7	176	3.4
1947-48	3,613	3,937	1,550	4,104	2,428	557	0	7,089	13	342	254	192	446	10	265	7,550	7,815	5.7	200	3.1
1948-49	4,008	4,280	1,688	4,336	2,787	602	52	7,777	12	398	274	217	491	6	280	8,288	8,568	5.7	210	3.2

There were 50,555 attendances recorded in the Out-Patients Department during

Out-patients.

the year. Of this number 18,141 were new cases and 32,414 were After-Attendances.

## APPENDIX XVI

## BARBADOS.

The Chief Diseases Treated at the Barbados General Hospital  
During the Year 1948.

Diseases	Cases	Cured	Relieved	No result	Incurable	Deaths
Abortion .. .. .	155	132	22	—	—	1
Adenoids .. .. .	99	91	4	4	—	—
Anaemia .. .. .	29	5	20	3	—	1
Aneurysm .. .. .	8	3	2	2	1	—
Appendicitis .. .. .	601	573	19	4	—	5
Arthritis .. .. .	76	20	49	1	—	6
Bronchitis .. .. .	125	68	46	2	—	9
Broncho-pneumonia .. .. .	150	85	21	2	—	42
Burns .. .. .	103	71	27	—	—	5
Carbuncles .. .. .	16	9	7	—	—	—
Carcinoma .. .. .	96	17	29	23	13	14
Cardiac Disease .. .. .	84	4	39	1	—	40
Cataract .. .. .	46	26	11	8	1	—
Cellulitis .. .. .	91	50	37	4	—	—
Colitis .. .. .	2	—	1	—	—	1
Conjunctivitis .. .. .	30	21	7	2	—	—
Diabetes .. .. .	55	6	33	1	—	15
Diarrhoea .. .. .	27	21	3	1	—	2
Dysentery .. .. .	34	27	4	—	—	3
Dysmenorrhoea .. .. .	41	12	24	5	—	—
Endometritis .. .. .	13	9	3	1	—	—
Enteric Fever .. .. .	77	55	7	—	—	15
Fibroid .. .. .	276	258	12	5	—	1
Fractures .. .. .	338	113	203	16	—	6
Gangrene .. .. .	54	40	6	1	—	7
Gastro-enteritis .. .. .	184	119	14	3	—	48
Glaucoma .. .. .	22	3	17	2	—	—
Hernia .. .. .	251	206	26	14	—	5
Hydrocele .. .. .	38	29	5	2	—	2
Jaundice .. .. .	48	30	8	1	—	9
Marasmus .. .. .	51	2	6	1	—	42
Menorrhagia .. .. .	27	16	9	2	—	—
Nephritis .. .. .	22	6	7	2	—	7
Neuritis .. .. .	20	9	9	1	1	—

## APPENDIX XVI—Continued

## BARBADOS

The Chief Diseases Treated at the Barbados General Hospital  
During the Year 1948.

Diseases				Cases	Cured	Relieved	No result	Deaths	Incurable
Orchitis	..	..	..	13	9	4	—	—	—
Osteomyelitis	..	..	..	37	15	16	5	—	1
Pelvic Cellulitis	..	..	..	113	66	46	1	—	—
Peritonitis	..	..	..	24	5	4	1	—	14
Pleurisy	..	..	..	14	7	7	—	—	—
Pneumonia	..	..	..	123	92	11	—	—	20
Poisoning	..	..	..	19	17	2	—	—	—
Salpingitis	..	..	..	75	57	17	—	—	1
Septicaemia	..	..	..	1	—	—	—	—	1
Syphilis	..	..	..	126	5	107	11	—	3
Tetanus	..	..	..	56	27	2	—	—	27
Tonsillitis	..	..	..	126	100	23	3	—	—
Toxaemia	..	..	..	46	8	33	2	—	3
Tuberculosis	..	..	..	37	8	18	5	1	5
Tumours	..	..	..	13	3	6	4	—	—
Ulcers	..	..	..	51	42	93	12	—	4

## APPENDIX XVII

## BARBADOS.

## List of operations performed at the Barbados General Hospital for the year 1948.

Operations	No. of Cases	Deaths
Minor Operations .. .. .	1,428	1
Amputation of leg .. .. .	23	7
Other amputations .. .. .	30	3
Appendicectomy .. .. .	663	7
Appendix Abscess, drainage of .. .. .	10	1
Caesarean Section .. .. .	25	1
Caldwell Luc .. .. .	8	0
Cholecystectomy .. .. .	7	0
Colostomy .. .. .	3	0
Cystoscopy .. .. .	29	0
Fistula in Ano .. .. .	13	0
Fractures, compound, operation for .. .. .	4	0
Fractures, open reduction .. .. .	13	0
Gastric and duodenal ulcers, perforated, repair of .. .. .	4	2
Gastrectomy .. .. .	3	0
Gastro-Enterostomy .. .. .	3	0
Gastro-Enterostomy and Vagotomy .. .. .	9	0
Gastrosocopy .. .. .	25	0
Hernia, Epigastric or Ventral .. .. .	8	0
Hernia, inguinal .. .. .	152	1
Hernia, strangulated .. .. .	9	1
"  Umbilical .. .. .	11	1
Haemorrhoidectomy .. .. .	18	0
Hydrocele .. .. .	24	1
Hysterectomy, Subtotal .. .. .	250	0
"  Total .. .. .	11	0
"  Wertheim's .. .. .	7	0
Imparotomy .. .. .	34	7
Mastectomy, Local .. .. .	6	0
"  Radical .. .. .	20	1
Mastoidectomy .. .. .	3	0
Myomectomy .. .. .	2	0
Nephrectomy .. .. .	3	0
Oesophagoscopy .. .. .	2	0
Osteomyelitis, operations for .. .. .	8	0
Patella, Excision of .. .. .	2	0
Prostatectomy .. .. .	16	0
Salpingo-Oophorectomy .. .. .	89	0
Skin graft .. .. .	11	0
Supra-pubic Cystostomy .. .. .	27	2
Tendon, Suture of .. .. .	12	0
Tenotomy .. .. .	3	0
Thyroidectomy .. .. .	28	0
Tonsillectomy and/or Adenoidectomy .. .. .	168	1
Vaginal Operations .. .. .	19	0
Valvulus, reduction of .. .. .	3	0
Other major operations .. .. .	69	10
	<hr/>	<hr/>
	3,315	47

Eye operations

Cataract	..	..	..	..	24	0
Cyclodialysis	..	..	..	..	7	0
Enucleation	..	..	..	..	5	0
Evisceration	..	..	..	..	4	0
Iridectomy	..	..	..	..	6	0
Excision of Lacrymal Sac	..	..	..	..	5	0
Needling	..	..	..	..	3	0
Paracentesis	..	..	..	..	5	0
Other Eye Operations	..	..	..	..	12	0
					<hr/>	<hr/>
					71	0
					<hr/>	<hr/>

## APPENDIX XVIII

## BARBADOS.

**Barbados General Hospital, X-Ray Examinations.  
1948 — 1949.**

No. of Cases from April, 1948 to March, 1949 .. .. .		4,681
No. of private cases .. .. .	745	
No. of public cases .. .. .	3,936	
No. of cases in Hospital .. .. .	1,669	
No. of cases outside Hospital .. .. .	3,012	
 <i>Classification.</i>		
X-Ray of Bones .. .. .	2,998	
"    " Urinary tracts .. .. .	94	
Opaque Meals .. .. .	52	
Dentals .. .. .	20	
Opaque Enemas .. .. .	17	
Intravenous pyelograms .. .. .	31	
Nasal Sinuses .. .. .	29	
Chests .. .. .	1,087	
Gall Bladders .. .. .	47	
Hearts .. .. .	39	
Pregnancies .. .. .	132	
Foreign bodies .. .. .	135	

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APPENDIX XVIII

Herbario General Hospital, X-Ray Examinations.  
1948 — 1949

TABLE

1948

No. of cases from April, 1948 to March, 1949		No. of cases in Hospital		No. of cases outside Hospital		Classification	
No. of patients	No. of X-ray cases	No. of patients	No. of X-ray cases	No. of patients	No. of X-ray cases	No. of patients	No. of X-ray cases
185	182	182	182	3	0	Foreign bodies	0
182	182	182	182	0	0	Fractures	0
30	30	30	30	0	0	Dislocations	0
1087	1087	1087	1087	0	0	Other	0
17	17	17	17	0	0	Intervertebral pyelitis	0
20	20	20	20	0	0	Other	0
34	34	34	34	0	0	Other	0
2,008	2,008	2,008	2,008	0	0	Other	0
3,908	3,908	3,908	3,908	0	0	Other	0
1,000	1,000	1,000	1,000	0	0	Other	0
143	143	143	143	0	0	Other	0



Checked by  
E. G.

