

15, Ross Avenue,
Singapore, 11.

27th June, 1961.

The Registrar,
University of Malaya in Singapore,
Cluny Road,
Singapore, 10.

*Apply for
professorship
S'pore*

Dear Sir,

I have the honour to apply for appointment to the Chair
of Social Medicine and Public Health in the University of Malaya.

... Attached you will find details of my qualifications,
experience and publications, together with personal data and the
names and addresses of persons to whom reference may be made.

Yours faithfully,

W. DAHARAJ

- ✓ NAME: Winifred DANARAJ née LEWIS
- ✓ PRESENT APPOINTMENT: *Professor Dept SM + PH*
Senior Lecturer in the Department of
Social Medicine and Public Health and
Acting Head of the Department,
University of Malaya in Singapore.
- ✓ PERSONAL DATA: Born on 8th August 1916 in Singapore.
Singapore citizen.
British Nationality.
Married.
Two children.
- ✓ QUALIFICATIONS: Licentiate in Medicine and Surgery,
King Edward VII College of Medicine,
Singapore, 1938.
Master of Public Health, magna cum laude,
Harvard School of Public Health,
Harvard University, 1952.
Diploma in Child Health of the Royal
College of Physicians of London and the
Royal College of Surgeons of England, 1952.
- ✓ REFEREES:
1. Dr. A.A. Sandosham, L.M.S., Ph.D., F.R.E.S.,
F.L.S., F.Z.S., F.R.M.S., Hon. M.D.,
formerly Principal, University of Malaya
in Singapore, and Professor of Parasitology,
University of Malaya,
c/o World Health Organisation,
8 Oxley Rise,
Singapore, 9.
 2. Dr. Hugh Rodman Leavell, M.D., Dr.P.H.,
Professor of Public Health Practice and
Head of the Department,
Assistant Dean,
Harvard School of Public Health,
55 Shattuck Street,
Boston, Massachusetts,
U. S. A.
 3. Dr. W.W. Yung, M.D., M.P.H.,
W.H.O. Area Representative,
8 Oxley Rise,
Singapore, 9.
 - ⁺4. Dr. Carl E. Taylor, M.D., F.R.C.P., Dr.P.H.,
Associate Professor of Preventive Medicine
and Public Health,
Department of Microbiology,
Harvard School of Public Health,
55 Shattuck Street,
Boston, Massachusetts,
U. S. A.

⁺ I have taken the liberty of naming an additional referee,
Dr. Carl Taylor, who is in charge of the Program for Teachers of
Preventive Medicine and Public Health, which I attended during
my studies at Harvard School of Public Health, 1958/59.

SCHOLARSHIPS AND DISTINCTIONS:

Passed the Cambridge Junior Examination in 1930 with honours and with distinctions in Geography, Hygiene and Drawing.

Passed the Cambridge School Certificate Examination in 1931 with honours and with distinctions in English and Geography.

Awarded the Khoo Teck Siong Esq. (Entrance) Scholarship to the King Edward VII College of Medicine in June 1932.

Distinctions in Bacteriology, Pathology, Pharmacology and Materia Medica, Medical Jurisprudence and Public Health.

Bailey Memorial Prize in Public Health.

Silver Medal in Final Professional Examination Part I.

Awarded the Queen's Fellowship for Singapore for 1950, an annual competitive award for two years post-graduate study abroad for graduates of the University of Malaya and its preceding colleges.

Elected a member in 1952 of the Beta Chapter of the Delta Omega Society of the U.S.A., an honour Society in the field of public health.

APPOINTMENTS AND EXPERIENCE:

1. Lady Medical Officer in the service of the Government of the Straits Settlements from 1938 to 1947, serving both in Singapore and in the Federation of Malaya.

Clinical experience: $6\frac{1}{2}$ years of clinical experience in medicine, including paediatrics, venereal diseases and tuberculosis, and two years in midwifery and gynaecology gained in Government hospitals and clinics in Singapore and in the Federation of Malaya.

Experience in public health practice: 6 months of public health work with special reference to school children. During the period of clinical work, for 6 months in Penang, my duties also included maternal and infant care, and for a further $3\frac{1}{2}$ years I was in charge of the Women and Children's Welfare Clinic in Ipoh.

2. Private general medical practice from 1947 to 1949. This was of considerable value in gaining knowledge of certain aspects of social medicine.
3. Date of appointment in the Department of Social Medicine and Public Health, University of Malaya: 8th October 1949. Promoted to Senior Lecturer on 1st July 1958. My experience and activities as a member of the Department of Social Medicine and Public Health are given in subsequent paragraphs.

TEACHING EXPERIENCE:

A. Teaching within the Department:

Postgraduate Diploma in Public Health Course.

Responsible for the teaching of medical graduates attending this course with special reference to:

Maternal and Child Health since the inauguration of the D.P.H. course in 1953.

Epidemiology since 1956.

Public Health Statistics for 1960/61, during the absence on study leave of Mr. Tye Cho Yook, medical statistician.

Guidance of students in the preparation of dissertations as required in the D.P.H. course.

Medical Students in the clinical years.

Responsible for lectures, seminars, tutorials and field visits for undergraduates on various topics in the field of Social Medicine and Public Health. These topics include among others, maternal and child health, epidemiology and the control of disease, nutrition.

Home visits, ward teaching and tutorials in social and preventive medicine carried out for half the class, much of the teaching being done on an individual basis.

Supervision and guidance of the whole or one-half of the 5th year class in the carrying out of a public health survey in a selected village area over a period of one month.

B. Teaching outside of the Department:

Health Education Course for University graduates studying for the Diploma in Education in the University of Malaya from 1950 till 1960.

Courses in Nutrition and Epidemiology during 1956 and 1957 for Public Health Sanitary Inspectors undergoing a training course under the auspices of the Royal Sanitary Institute.

Course in Maternal and Child Health Statistics and Health Education for nurses taking the Health Visitors and School Nurses Course 1960/61.

C. Preparation of teaching materials:

The absence of suitable textbooks to meet local needs has necessitated the preparation of notes incorporating local information and examples. Much time has been spent in searching local records and studying local conditions to provide basic data for use in the courses on maternal and child health, health education and epidemiology. This material has not yet been published but is available within

ADMINISTRATIVE EXPERIENCE:

1. Appointed to act as Head of the Department of Social Medicine and Public Health on ~~seven~~^{eight} occasions since 1958 during the absence on leave of Professor T.A. Lloyd Davies.

I have been acting in this capacity from March of this year, following Professor Lloyd Davies' resignation from the Chair.

2. In 1956, I was asked to take over the organisation and co-ordination of the Diploma in Public Health Course, and have been responsible for its management since. The course includes a two-week field visit to the Federation of Malaya to study public health problems and practice against the Malayan background.

RESEARCH ACTIVITIES

1. An investigation into the incidence and sources of lead poisoning in Singapore was started in 1950, but was interrupted when I proceeded on study leave in 1951. Following the admission into General Hospital, Singapore, in 1954, of six cases of acute lead poisoning, further investigations were carried out. Certain Chinese medicine powders were found to be heavily adulterated with lead and were implicated as dangerous sources of poisoning. The Director of Medical Services was informed of this, and appropriate action was taken to protect the public from these dangerously adulterated drugs.
2. In co-operation with the Department of Medicine, a study was made into ethnic group differences in coronary heart disease as seen at necropsy. This study has shown a relatively high prevalence of coronary heart disease in Indians as compared with Chinese and forms the basis for further studies into the epidemiology of coronary heart disease. One aspect that is now being pursued is the evaluation of data with respect to blood cholesterol levels found in different ethnic groups in Singapore.
3. Dr. M.C. Balfour of the Population Council Inc., New York, has asked me to undertake long-term field studies into the factors related to population growth and to test methods aimed at a reduction in the rate of increase in Singapore. This project is still in the early stage of planning.

CONSULTATIVE ACTIVITIES:

Help in epidemiologic studies and statistical advice in connection with research projects of the Departments of Medicine, Parasitology and Pathology in the Faculty of Medicine.

POSTGRADUATE STUDY:

1. On the award of the Queen's Fellowship to me in 1950, the University granted me leave to study abroad from 1951 to 1953. The first year was spent at the Harvard School of Public Health and the degree of Master of Public Health, Magna cum Laude was conferred on me. Though I majored in the field of Tropical Public Health, much time was also spent in full courses in Maternal and Child Health, Health Education and Epidemiology. The second year was spent in the United Kingdom attending the Hospital for Sick Children, Great Ormond Street; visiting and studying social and public health services in London, Newcastle-on-Tyne and Edinburgh; visiting the University Department of Public Health in Edinburgh; and attending various courses in Infectious Diseases, Child Health and Health Education. I was awarded the Diploma in Child Health, London.

2. A second tour of leave was granted by the University from August 1958 to May 1959. This period was again spent at Harvard School of Public Health where, after preliminary preparation and attendance at courses in statistics, epidemiology and nutrition, I passed the qualifying examination and was accepted as a candidate for the degree of Doctor of Public Health. A research plan for an investigation into ethnic group differences in respect of atherosclerosis was accepted. Unfortunately since my return, this program of research has had to be postponed due to teaching and administrative commitments within the Department. In addition, while at Harvard, I attended an instructive seminar in Preventive Medicine and Public Health designed for teachers in this subject, and spent two weeks in New York, studying the undergraduate teaching of Environmental Medicine and Community Health at the State University of New York and the Medical Care Program run by the Division of Social Medicine, Montefiore Hospital, New York.

PUBLICATIONS:

1. Symposium on "The Treatment of Peptic Ulcer": Social Aspects. Proceedings of the Alumni Association, King Edward VII College of Medicine, 1951, 4, 108-113.

2. Chinese Medicine Powders Causing Lead Poisoning in Singapore. Proceedings of the Alumni Association, Malaya, 1954, 7, 261-274.

3. Lead Encephalopathy. Proceedings of the Alumni Association, Malaya, 1956, 9, 107-120.

4. Amoebic Vaginitis. Proceedings of the Alumni Association, Malaya, 1956, 9, 229-231.

5. Ethnic Group Differences in Coronary Heart Disease in Singapore: an Analysis of Necropsy Records. American Heart Journal, 1959, 58, 516-526 (in conjunction with T.J. Danaraj, M.S. Acker, Wong Hee Ong and Tan Bock Yam).

ATTENDANCE AT CONFERENCES:

1. Invited by the Government of Singapore to represent Singapore as a participant at the World Health Organization Second Zonal Seminar on Environmental Sanitation held in Singapore, 1957.
2. Invited by the Government of Singapore to represent the University of Malaya as an observer at the World Health Organization Public Health Conference and Study Tour of Singapore and the Federation of Malaya, August 1960.

MEMBERSHIP OF SOCIETIES:

1. Member of the Beta Chapter of the Delta Omega Society of the U.S.A., an honour Society in the field of Public Health.
2. Fellow of the Royal Society of Tropical Medicine and Hygiene.
3. Member of the Royal Society for the Promotion of Health.
4. Member of Singapore Medical Association.

OTHER ACTIVITIES:

1. Member of the Faculty of Medicine Selection Committee and of the Singapore Divisional Board of Admissions, University of Malaya, since March 1959.
2. Representative of the University of Malaya on the Medical Council of Singapore from 1960 to 1961.
3. University of Malaya's representative on various Selection Boards of the Public Services Commission, Government of Singapore.
4. Examiner for the Health Visitors and School Nurses Examination of the Royal Society of Health, Singapore for 1958 to 1961 and for the Federation of Malaya from 1959 to 1960.

Member of Organizing Committee,
Inter-Regional Training Course
on Vial Laboratory Techniques,
March 12 to 30, 1962, Singapore.