Postgraduate Medical Studies Programme

Memorial University of Newfoundland
Faculty of Medicine
and
Affiliated Teaching Hospitals
MEMORIAL UNIVERSITY OF NEWFOUNDLAND

FACULTY OF MEDICINE

and

AFFILIATED TEACHING HOSPITALS

Artist's concept of the Health Sciences Complex located on the Campus of Memorial University (under construction).
# TABLE OF CONTENTS

**FOREWORD** ................................................................. 5

**GENERAL INFORMATION**
- University Affiliation .................................................. 7
- University Registration .................................................. 7
- Licensure ........................................................................ 7
- E.C.F.M.G. ..................................................................... 7
- Salaries .......................................................................... 8
- Vacation .......................................................................... 8
- Work Schedule .................................................................. 8
- Accommodation ................................................................ 8
- Transportation .................................................................. 9
- Immigration ...................................................................... 9
- Faculty of Medicine Library ............................................. 9
- M. Sc. and Ph.D. Degree Work in the Medical School .............. 11

**INTERNESHIP PROGRAMMES** ............................................. 12

**RESIDENCY PROGRAMMES** .................................................. 15
- Anaesthesia ..................................................................... 16
- Family Practice .............................................................. 18
- Medicine .......................................................................... 19
- Obstetrics-Gynaecology ..................................................... 22
- Orthopaedics ................................................................... 22
- Paediatrics ...................................................................... 23
- Psychiatry ........................................................................ 26
- Diagnostic Radiology ......................................................... 28
- Surgery ............................................................................ 30

**AFFILIATED TEACHING HOSPITALS** ................................. 33
- The St. John's General Hospital ........................................... 33
- The Grace General Hospital ............................................... 35
- St. Clare's Mercy Hospital .................................................. 37
- The Dr. Charles A. Janeway Child Health Centre ...................... 39
- The Waterford Hospital ....................................................... 41
- The Charles S. Curtis Memorial Hospital ................................. 43
- Licensing Examinations in Newfoundland .............................. 44
FOREWORD

This handbook has been prepared to provide information to applicants for Internships and Residencies at Memorial University and its affiliated hospitals.

Even before the formal inception of an undergraduate medical school, Memorial University of Newfoundland initiated a fully-integrated programme of Postgraduate Medical Education for interns and residents, in cooperation with the major affiliated hospitals in St. John’s. The Faculty of Medicine at Memorial University accepted its first undergraduate students in September, 1969 - the graduating class of June, 1973. By 1973, approximately 80 full-time faculty appointments had been made together with some 70 part-time clinical appointments. These faculty members have come from academic medical centres in Canada, the United States, Great Britain and elsewhere.

Graduate degree programmes leading to the M.Sc. or Ph.D. degrees in clinical and basic science areas are offered within the Faculty of Medicine. These provide additional opportunities for interested and qualified Residents in the various approved programmes that are offered in the major specialties.

Additional information may be found in the calendar of the Faculty of Medicine and the calendar for Graduate Studies.

Of particular interest to many applicants is the establishment in 1973 of a two-year Residency programme in General Practice with opportunity for entry immediately upon completion of the undergraduate medical programme.

Memorial University is fortunate in having a close formal affiliation with a broad spectrum of teaching hospitals both within St. John’s and across the province, providing opportunities for experience in large teaching-referral hospitals and - where appropriate - in regional hospitals and cottage hospitals. An active programme of Continuing Medical Education provides educational opportunities for physicians in all areas of the Province.

Ian E. Rusted, M.D., F.R.C.P. (C)
Dean of Medicine
GENERAL INFORMATION ★

UNIVERSITY AFFILIATION

The Memorial University of Newfoundland Faculty of Medicine is affiliated with The St. John’s General Hospital, the Grace General Hospital, the Dr. Charles A. Janeway Child Health Centre, St. Clare’s Mercy Hospital, the Waterford Hospital, the Charles S. Curtis Memorial Hospital, and the Carbonear Community Red Cross Memorial Hospital. Internes and Residents are postgraduate students of the Faculty of Medicine with an Associate Dean of Clinical Affairs responsible for the co-ordination of clinical postgraduate training. University facilities such as the Medical Library, gymnasium, squash courts, and swimming pool, are fully available, and formal registration is required. Membership in the Graduate Students Union is also open to Internes and Residents.

The University organizes a series of Basic Science Seminars with clinical application and also sponsors visiting lecturers from various parts of the world. The Department of Continuing Medical Education organizes regular courses and symposia which are open to Internes and Residents. Suitably qualified Residents may undertake studies leading to the M.Sc. and Ph.D. degrees in the Faculty of Medicine.

UNIVERSITY REGISTRATION

All Internes, Residents and Fellows are required to register as postgraduate students in the Faculty of Medicine. Membership in the Graduate Students Union is also open to Internes, Residents and Fellows.

LICENSURE

The Newfoundland Medical Board has reciprocity for full licensure with the Home List of the United Kingdom, without further requirements (e.g.) L.M.C.C. Those who wish to obtain permanent license to practise in Newfoundland, please see Appendix 1 at the end of the brochure.

EDUCATIONAL COUNCIL FOR FOREIGN MEDICAL GRADUATES

Graduates of foreign medical schools are required to have the ECFMG before an application for Interneship or Residency can be considered. Exempt from this rule are graduates from any medical school in the United Kingdom, Republic of Ireland, Australia, New Zealand, South Africa, and the United States of America.

★ All information in this booklet is subject to change.
SALARIES — INTERNES AND RESIDENTS

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Administrative Resident Allowance - $1,000.

Residents in Psychiatry are eligible to apply for an additional $6,000 per annum bursary through the Department of Health.

All salaries are subject to Canadian Income Tax regulations.

VACATION — INTERNES AND RESIDENTS

All Internes will receive three weeks vacation a year.

All Residents will receive four weeks vacation a year.

Internes and Residents will receive one working day paid leave for each of the eight statutory holidays per year as prescribed by the employer.

WORK SCHEDULE — INTERNES AND RESIDENTS

Internes and Residents I and II will be on duty in the hospital not more frequently than one night in three and Residents III and IV not more often than one night in four except in unusual circumstances. Where there are educational needs for more frequent night duty, it is understood that rotations will be at the discretion of the appropriate programme director or his hospital designate.

ACCOMMODATION — INTERNES AND RESIDENTS

Duty rooms are provided. In addition, a limited number of rooms are available to single members of the house staff for which a monthly charge of $75 is made. Meals are available in hospital cafeterias and are paid for on an individual basis. Uniforms are provided and laundered. A number of accommodations for single and married Residents are available for those working in the Waterford Hospital and the Janeway Child Health Centre.

Enquiries regarding rental of houses and apartments in St. John's and environs should be directed to:

Director of Personnel,
The St. John's General Hospital,
St. John's, Newfoundland,
Canada.
TRANSPORTATION

Transportation costs to St. John’s will be reimbursed based on economy air fares to a maximum of $300 in return for one year’s service. Return transportation on the same basis for repatriation purposes only, is paid on satisfactory completion of the year. Costs of transporting dependents or household effects will not be reimbursable.

Residents working in the Waterford Hospital are eligible for additional assistance with travel expenses for themselves and their dependents.

IMMIGRATION

It is advisable to ascertain the requirements for immigration well in advance of the expected date of arrival in Canada. Such information is available from the offices of Canadian Immigration authorities. The means of entry are either by student visa or as a landed immigrant. A valid passport and medical examination are required except for citizens of the U.S.A. coming directly from the United States to Canada.

FACULTY OF MEDICINE LIBRARY

Medical Librarian: Fredericksen, R., B.A., M.Sc.

Public Services Librarian: Johnston, G., M.A., M.L.I.S.

LOCATION

The library is at present located in Temporary Building T9-26 which is adjacent to the corridor connecting T7 and T9.

HOURS

- Monday - Friday: 8:30 a.m. - 11:00 p.m.
- Saturday: 9:00 a.m. - 5:00 p.m.
- Sunday: 1:00 p.m. - 9:00 p.m.

Variations in this schedule are posted near the library entrance and also announced in the library Newsletter and the MUN Gazette.

COLLECTION

The total collection now includes over 8,000 volumes and approximately 1,000 current periodicals in the health sciences. Suggestions for purchase are welcome and may be left with any staff member.
The book collection is organized according to the Library of Congress classification system. Journals are arranged alphabetically by title as they are listed in Index Medicus. The regularly published Newsletter announces recent additions to the library collection.

The University’s Main Library provides back-up support in life science subject areas which are not presently represented in the Medical Library - primarily in the fields of biology, biochemistry and psychology.

INTERLIBRARY LOAN SERVICE
Material which is not available within the University library system may sometimes be obtained from a local hospital library. A union list of medical journal titles for the St. John’s area is maintained in the library. Material requested from a local resource can generally be delivered within three working days after the request. Books and journals not available locally are requested through a regional and national library network. These requests can generally be filled within ten working days.

REFERENCE SERVICES
Library staff members are available from 9:00 a.m. to 5:00 p.m. Monday through Friday to answer reference questions, give assistance in the use of the card catalog and with reference tools and indexes. Orientation programmes for groups or individuals will be arranged upon request.

Limited scope bibliographies can also be prepared when requested by Faculty and research staff. The library will also assist in the verification of bibliographic citations of references to be used in papers submitted for publication.

Assistance in the preparation of requests for computerized services of the medical literature from the National Library of Medicine’s MEDLARS (Medical Literature Analysis and Retrieval System) tapes is also available as is assistance in the preparation of interest profiles for the current awareness services offered by CAN/SDI (Canadian Selective Dissemination of Information). Both the MEDLARS and CAN/SDI services are provided through the Health Science Resource Centre of the National Science Library on a fee basis.

BORROWING PRIVILEGES
Borrowing privileges are extended to Faculty, students, and staff of Memorial University of Newfoundland and to physicians practising in the Province. Physicians who reside and practise outside the St. John’s area may request material by mail.
The Faculty of Medicine offers M.Sc. and Ph.D. degrees in both clinical and basic science areas of medical research. Since medical research today is often interdisciplinary and since this Medical School is committed to dissolving the traditional departmental barriers, we have been given permission to offer graduate programmes on the basis of individual Faculty members rather than on the basis of departments. Thus it is possible to do graduate work in any part of the Medical School, including clinical areas, provided that there is, in the opinion of the Faculty of Medicine Graduate Studies Committee, a suitable supervisor and a suitable environment for the work proposed.

Several graduate students already are registered in the programme, working on such projects as "Inflammatory factors produced by cultured lymphocytes," "The rate of plasma protein replacement following cardiopulmonary bypass," "Gas chromatographic analysis of urinary steroids in hypertension," "Genetic studies in schizophrenia," "Metabolic activity of nuclear and cytoplasmic DNA," and "Induction of metabolic changes in cells of higher organisms by bacterial DNA."

It is possible for a Resident, providing his credentials are acceptable to the Faculty Graduate Studies Committee, to use one year of the four-year Residency programme working for a graduate degree (M.Sc.). Further extension of the Residency Programme can be arranged for Ph.D. candidates.

For Graduate Calendar, application forms, and detailed information including summaries of the research projects that are currently being undertaken in this Medical School, please write to Mrs. H. L. Starcher, Secretary, Graduate Studies Committee, Faculty of Medicine, Memorial University of Newfoundland, St. John’s, Newfoundland, Canada.
INTERNESHIP PROGRAMME

The Memorial University of Newfoundland Affiliated Interneship Prog­ramme involves the following hospitals:

The St. John’s General Hospital, St. John’s, Newfoundland
St. Clare’s Mercy Hospital, St. John’s, Newfoundland
The Grace General Hospital, St. John’s, Newfoundland
The Dr. Charles A. Janeway Child Health Centre, St. John’s, Newfoundland
The Waterford Hospital, St. John’s, Newfoundland
The Charles S. Curtis Memorial Hospital, St. Anthony, Newfoundland

In addition, the elective period may be spent in one of the Cottage Hospitals or at Comer Brook, Grand Falls, Carbonear, or St. Anthony, the latter being the main centre of the Grenfell Mission and recognized by accrediting agencies for selected portions of Interne and Residency programmes.

The Interne Programme is approved by the appropriate accrediting bodies including the Canadian Medical Association, the Medical Council of Canada, the Royal College of Physicians and Surgeons of Canada and the Council on Medical Education of the American Medical Association. The Internship is also recognized by the General Medical Council of Great Britain for the pre-registration year, but permission must be obtained first from the University or institution which granted the Medical degree.

Both Rotating and Straight Interneship Programmes normally commence mid-June.

ROTATING INTERNESHIP (one year duration)

The following rotations are provided:
8 weeks Medicine
8 weeks Surgery
8 weeks Obstetrics and Gynaecology
8 weeks Paediatrics
8 weeks Psychiatry
4 weeks Emergency Service
4 weeks Elective (a wide variety of subjects are offered including Dermatology, Child Psychiatry, Diagnostic Radiology, Radiotherapy, Anaesthesia and Intensive Care, Haematology, Ophthalmology, Otolaryngology, Cancer Immunology, and Respiratory Diseases)
4 weeks Vacation
Internes with an approved clinical clerkship may modify the Rotating Interneship by making arrangements with the Intern Coordinator.

STRaight InternESHIP (one year duration)

Straight Internships are offered in the following disciplines:

- Medicine
- Surgery
- Paediatrics
- Obstetrics and Gynaecology
- Psychiatry
- Family Practice

All applicants for a Straight Internship must submit a letter from the Dean of their Medical School stating that an approved clinical clerkship has been completed. The Federation of Provincial Licensing Authorities defines an approved clinical clerkship as follows: “The undergraduate clinical clerkship shall involve supervised responsibility for the care of patients and be of at least 40 weeks duration (exclusive of holiday time) including those clerkships regularly scheduled for all students and those chosen as electives. It shall be in the second half of the total undergraduate Medical Curriculum. Clinical clerkship experience shall include at least.

- 8 weeks Medicine
- 8 weeks Surgery
- 4 weeks Obstetrics
- 4 weeks Paediatrics
- 4 weeks Psychiatry

Non-clinical periods, whether prescribed or elective shall not be considered as part of the required 40 weeks of clinical experience”.

The Straight Internship is designed to meet the needs of those graduates who intend to continue training in the appropriate specialty. The year is accepted by the Royal College of Physicians and Surgeons of Canada as one of the two core years of Residency training.

MIXed InternESHIP

Specifically designed mixed Internships may be arranged based upon previous clinical clerkship experience and upon immediate and long term career objectives.
EVALUATION OF INTERNE PROGRESS

At the conclusion of each rotation, the Interne's progress is evaluated by the teaching staff, and a report forwarded to the Postgraduate Medical Studies Office and the hospital administration.

A Certificate of Training is issued upon satisfactory completion of the programme.

APPLICATION

Application forms may be obtained by writing to:

POSTGRADUATE MEDICAL STUDIES
FACULTY OF MEDICINE
MEMORIAL UNIVERSITY OF NEWFOUNDLAND
ST. JOHN'S, NEWFOUNDLAND
CANADA
A variety of education opportunities are available through the Anaesthesia training programme of the Faculty of Medicine, approved by the Royal College of Physicians and Surgeons of Canada. Candidates may apply to the Professor of Medicine of Memorial University of Newfoundland for the required year of training in that specialty.

The three-year programme in Anaesthesia is divided so that candidates spend two years in clinical training and one year in a specialized type of either clinical or research training as determined by the background and experience of the individual trainee as well as his current interests and future goals.

The two years of training in clinical anaesthesia will attempt to provide the trainee with a basis for continuing development of professional skills and knowledge. The basic principles of preoperative, intraoperative, and postoperative care will be stressed. The trainee will be required to obtain skills with all currently-used anaesthetic agents and techniques, and every type of clinical anaesthesia procedure, including paediatric, adult, geriatric, obstetric, thoracic, open-heart bypass, and neurosurgical will be a part of his education. In the event that a trainee's future goals can best be met by a third year of training in clinical anaesthesia, a definite programme in one or two specific areas will be outlined and a course of study prepared.

Trainees are encouraged to spend one year in the study of research methodology. An anaesthesia research laboratory has been established to provide for the research training. Several programmes are available to meet varying personal interests, including basic science and research, study of animal physiology and pharmacology in the surgery-anaesthesia laboratory, study of a specific clinical pharmacology project, and study of one of a number of applied clinical anaesthesia research projects. The advanced degrees of Master of Science (M.Sc.) or Doctor of Philosophy (Ph.D.) can be carried through the anaesthesia research programme.

The Division of Intensive Care and Inhalation Therapy within the Department of Anaesthesia offers additional opportunities to candidates to participate in this type of specialized care of patients under the supervi-
sion of a qualified physician. Residents in anaesthesia will be assigned to the Intensive Care Unit as a normal part of their rotation.

There is an active service for the treatment of intractable pain by intrathecal alcohol techniques and the management of acute pain problems by other nerve block techniques. Experience in Pulmonary Function is also provided.

Weekly seminars and weekly case study presentations have been organized at which the attendance of all Residents is required and in which all of the Anaesthesiologists of the City participate. The didactic programme includes chemistry and physics, pharmacology, anatomy, physiology, pathology, anaesthesiology principles (general consideration of anaesthetic practice, anaesthetic equipment, and general and regional anaesthesia techniques), and considerations of specific pathological conditions in relation to specific surgical requirements. Residents are encouraged to participate in research and present material of particular interest relevant to the field.

A course of lectures in the basic medical sciences and their clinical application is given in the Medical School of Memorial University as part of the postgraduate medical education programme. These occur weekly, covering many topics of general interest, such as acid-base regulation, immunology, nervous system functions, circulation, etc. In addition, an Interne and Resident educational programme operates at each hospital, consisting of weekly teaching sessions in virtually all departments including clinical-pathological conferences and clinical meetings of the various departments and divisions.

A continually expanding medical library makes available any medical publication, either as a part of its own collection or through interlibrary loan. The Anaesthesia Department purchases and maintains periodicals relating to anaesthesia, physiology, pharmacology, and the clinical application of these basic sciences.

Videotape recording in the operating room is a part of our training programme, to be used as a basis for personal teaching sessions and self-evaluation.

Candidates are accepted for Residency training in Anaesthesia only after completion of an approved Internership of at least one year. Anaesthesia also is available as an elective for Internes, with a minimum one-month assignment.
FAMILY PRACTICE
Associate Professor and Chairman
John M. Ross, M.B., Ch.B., F.C.F.P. (C)

The Residency Programme in Family Practice will emphasize ambulatory care and the outpatient aspects of health care and its delivery.

The total programme will normally consist of a two year Residency. There will be options for a third year for:

(a) Those who wish to develop special procedural skills, e.g. surgery, obstetrics, etc. for those who may wish to undertake practice in a setting where this may be a necessity, and

(b) for those who contemplate teaching or research and who may wish to enter the academic field.

The first year will consist of a one month period of Anaesthesia during the first three months of the rotation, following which Residents will be responsible for anaesthetising, under supervision, those patients from the practice whom they admit to hospital and who may require surgery. There will be a six month block of time during which the Resident will be seconded to Medicine and rotate through the St. John's affiliated hospitals, a period of approximately two months in each of three general hospitals so that there is a broad exposure to most of the aspects of internal medicine that have a direct bearing on general practice. There will be opportunity provided for outpatient clinics and consultations so that aspects of primary contact with the patient are emphasized. A period of three months will be devoted to Paediatrics and a further period of three months devoted to Obstetrics. During the whole of the first year there will be a stream of Psychiatry including Psychiatric Outpatients with follow-up of selected patients for the whole of the 12 month period. This will be associated with some time in Child Psychiatry, both in a longitudinal fashion and during the rotation in the Janeway Child Health Centre.

The second year will consist of a two to three month period in a Community Hospital, followed by a rotation through Surgery and a period of six months in practice directly associated with selected general practices in the city. There will be ongoing attachment and training in Ear, Nose and Throat work, Eyes and some sub-specialities, throughout this second year all emphasizing the ambulatory care aspects of the sub-specialties.

It is intended that the course provide sufficient flexibility so that individuals with any particular interest may achieve a desirable depth of training in that field. For this there will be elective periods of time provided.
A four-year programme of training is offered in Medicine in conformity with the requirements of the Royal College of Physicians and Surgeons of Canada for the Certification or Fellowship in Internal Medicine. The Straight Internship and Residency programmes provide staged responsibility for patient care and opportunity to gain experience in various subspecialties in Medicine. The programme, also, is orientated to the special requirements of qualified graduates who may plan a career in academic Medicine.

REQUIREMENTS FOR ADMISSION

1. Satisfactory completion of an undergraduate clinical clerkship and/or subsequent Internship acceptable to the Royal College of Physicians and Surgeons of Canada.

2. Graduates of foreign medical schools must possess a permanent certificate of the Education Council for Foreign Medical Graduates (ECFMG) or be eligible for registration on the educational register of the Newfoundland Medical Board.

TEACHING PROGRAMME

The programme consists of four years of training arranged to give a broad experience in the field of General Internal Medicine during the first two years of the programme, following which the majority of candidates will wish to undertake Part I of the Examinations of the Royal College of Physicians of Canada. The second two years of the programme may be tailored specifically to the needs of the trainee who may wish to complete training in the field of General Internal Medicine or in one of the subspecialties of Internal Medicine.

1. The first-year Resident works in conjunction with one or more Internes or Clinical Clerks and undertakes major responsibility for care of the patients assigned to his service. He is guided by more senior Residents and by the clinical teaching physicians. His rotation includes a predominant experience on General Medical Services and in a specially-designed rotation through the Intensive Care Unit - Emergency. In addition, he may elect to undertake a three-month rotation through one of the sub-specialty services.
2. The second-year Resident will have opportunity for further training in General Internal Medicine and/or rotation through selected sub-specialty areas. The Resident may elect to spend up to nine months in sub-specialty areas (Cardiology, Neurology, Haematology, Dermatology, Psychiatry, Paediatrics, Gastroenterology, Nephrology or Respiratory Disease).

3. The third-year Resident may undertake a specially-designed year as follows:

(a) Further training in Internal Medicine.

(b) Resident training in a sub-specialty of Medicine.

(c) Research Fellow in a sub-specialty with opportunity to undertake clinical or basic research related to that discipline. Entry into a Master of Science or Ph.D. programme can be arranged for well-qualified candidates.

(d) Pathology and/or Laboratory Medicine.

4. The fourth-year Resident may undertake a senior residency in Medicine, a position designed for the candidate who wishes to qualify for the Fellowship of the Royal College of Physicians and including opportunity in teaching of Internes, Residents and Clinical Clerks, supervisory responsibilities, and the opportunity to see a wide variety of consultations in conjunction with clinical teaching staff.

(b) A clinical Residency or research fellowship in a sub-specialty.

(c) Further training in another medical centre.

Trainees in other clinical disciplines may apply for Residency training in Medicine for periods of six months to one year. In general, the greatest value to the trainee from another discipline who enters the six-month to one-year programme in Medicine, is derived if this training in Medicine is undertaken early in the training programme rather than at the end of the specialty training period.
IN-TRAINING ASSESSMENT

An evaluation is conducted at the end of each rotation at which time the senior physician of the service discusses with the Resident an evaluation of the Resident's performance.

MAJOR TEACHING ROUNDS AND SEMINARS

1. Basic Science Seminars - This series of evening seminars is designed to provide a review of basic topics at weekly intervals extending over a two-year period.

2. Seminars in Medicine - A major clinical topic is reviewed in depth each week by a member of the resident staff. Seminars are attended by clinical and/or basic faculty and staff who serve as resource individuals. Full typewritten notes are provided.

3. Medical Rounds - Weekly - The St. John's General Hospital

4. Medical Rounds - Weekly - The Grace General Hospital

5. Medical rounds - Weekly - St. Clare's Mercy Hospital

6. Clinical Pathological Conference - Weekly - The St. John's General Hospital

7. Neurology and Neurosurgery Rounds - Weekly - The St. John's General Hospital

8. Haematology Rounds - Weekly - The St. John's General Hospital

9. Cardiology Rounds - Weekly - The St. John's General Hospital

10. Dermatology Rounds - Weekly - The Grace General Hospital

11. Rheumatology Rounds - Weekly - St. Clare's Mercy Hospital


The chief learning experience is that attained through patient care with graded responsibility. Seminars, lectures and formal ward rounds provide didactic teaching, but it must be emphasized that the trainee has major responsibility for his graduate education. He is encouraged to utilize the library resources of the Affiliated Hospitals and the Central Library of the Faculty of Medicine on campus. In preparation for the Royal College
examinations in Medicine and its sub-specialties, practice in taking written and oral examinations will be provided.

Clinical rotations utilize facilities of all the Affiliated Hospitals in St. John's and, in addition, the Resident may elect to have up to three months of his training at the hospital of the I. G. A. in St. Anthony.

**OBSTETRICS GYNAECOLOGY**

Professor and Chairman  
G. H. Flight, M.D., C.M., F.R.C.S. (C)

The programme in Obstetrics and Gynaecology is fully approved by the Royal College of Physicians and Surgeons of Canada. There are three affiliated hospitals - the Grace General Hospital and St. Clare's Mercy Hospital with active obstetrical and gynaecological services, and The St. John's General Hospital with an active gynaecological service.

There are 4,000 deliveries a year with a large percentage of referred high-risk obstetrics. There is a wide range of operative gynaecological cases and there are two gynaecological clinics per week. There is a Gynaecology/Radiotherapy Tumor Clinic where all new and return patients are seen regularly once a week.

A postgraduate course is arranged by the Department for Obstetrics and Gynaecology, including both Basic Science and clinical subjects.

**ORTHOPAEDICS**

Professor  
O. Vaughan-Jackson, F.R.C.S.

In Orthopaedics there are now six Residency appointments. These are on a rotation basis through three hospitals concerned: The St. John's General Hospital (Adult Orthopaedics and Trauma), St. Clare's Mercy Hospital (Adult Orthopaedics with emphasis on reconstructive surgery) and the Dr. Charles A. Janeway Child Health Centre. The rotation through St. Clare's Mercy Hospital will include work in the Rheumatology Unit. Treatment of patients is carried out in close liaison with the Rheumatology group and Orthopaedic Surgeons. The Resident concerned will be expected to be involved in the care of surgical patients in the Rheumatology beds.
A four year programme of training is offered in Paediatrics at the Dr. Charles A. Janeway Child Health Centre in conjunction with the neonatal units at the Grace General Hospital and St. Clare's Mercy Hospital. This programme is designed to meet the requirements of the Royal College of Physicians and Surgeons of Canada for the examination in Paediatrics. The Straight Interneship and Residency programme provides a graded responsibility of patient care, as well as an opportunity to gain experience in selected sub-specialties in Paediatrics. This programme is primarily oriented towards the individual who wishes to be a consultant in general paediatrics. The programme is designed so that opportunity is allowed for individuals to change to a sub-specialty if so desired.

REQUIREMENTS FOR ADMISSION

1. Satisfactory completion of undergraduate clinical clerkship or Interneship acceptable to the Royal College of Physicians and surgeons of Canada for graduates of Canadian Medical schools.

2. Graduates of U.S. A., Australia, South Africa, New Zealand, United Kingdom and Irish medical schools are eligible if licensed in their own country.

3. Graduates of other foreign medical schools must have a permanent certificate from the Education Council of Foreign Medical Graduates (ECFMG) to be eligible for registration on the Educational Register of the Newfoundland Medical Board.

PROGRAMME

The programme consists of four years of training to give a broad experience in the field of General Paediatrics. The first two years are designed to meet the core requirements of the Royal College of Physicians of Canada for training in Paediatrics.

1. **Core Training**: This period extends for twenty-four months. Residents may take one year of core training but preference will be given to candidates applying for the two-year programme. The first year of core training consists of graded responsibilities on
the wards of the Dr. Charles A. Janeway Child Health Centre, with some responsibility for the supervision of Internes and clinical clerks. During this year, in general, a period of two months is spent on neonatology and also a period of two months in the ambulatory care area.

The second year of core training includes a further two-month period on neonatology and a two-month period on ambulatory care, but, in addition, includes further ward experience plus the opportunity for residents who have completed their first year of core training at this centre to rotate through sub-specialty services. Up to three months may be spent at the International Grenfell Association Hospital, St. Anthony, Newfoundland.

2. Following core training, the residents may complete the required two years of additional training by selecting from the following:

(a) A period of one year of further training in General Paediatrics, including, if desired, ambulatory paediatrics, neonatology, and a period at St. Anthony, Newfoundland, and on the Labrador Coast with the International Grenfell Association.

(b) Appointments as a Chief Resident or Teaching Fellow, which is acceptable for training, may become available from time to time for a period of one year.

(c) One year rotation with attachment to sub-specialty areas: Neurology - 4 months, Child Psychiatry - 4 months, Cardiology - 4 months. Alternatively, Haematology may be substituted for one of the other three specialties.

(d) A one-year period on pathology and/or laboratory medicine. This can be arranged so that there is special stress on the paediatric aspects of pathology and laboratory medicine.

(e) Six month rotation on any two of the following is available to suitable candidates:

(1) Clinical Pathology - Haematology

(2) Paediatric Surgery

(3) Internal Medicine
(f) Research, in association with other disciplines at Memorial University of Newfoundland, can be arranged under special circumstances to make the candidate eligible for an M.Sc. or a Ph.D. Such programmes are, in general, two year programmes.

(g) One year to be spent at another centre.

IN-TRAINING ASSESSMENT
The candidates for Royal College qualifications will have regular in-training assessment. Candidates at the end of the second year are advised to write the first part of the paediatric examinations for the Royal College of Physicians of Canada. In addition, Residents will receive a pre-testing early in their period of Residency, in order that progress in the programme can be measured and in order that any areas of weakness can be recognized and strengthened.

TEACHING
Teaching Rounds & Seminars: Grand Rounds are held daily. Following is the present schedule:

MONDAY
1300 Hours: X-ray Conference held in the X-ray Conference Room.

TUESDAY
0830 - 0930 Hours: Orthopaedic Conference in the Main Conference Room. This is especially designed for internes and paediatric residents and is not primarily a surgical round.

1300 Hours: Pathology Conference.

WEDNESDAY
1200 Hours: Medical Admissions Conference.

THURSDAY
1200 Hours: Medical Grand Rounds.

FRIDAY
1300 Hours: Surgical Grand Rounds. Note: These rounds are, in the main, designed to include much of the medical aspects of the surgical conditions discussed.
Basic Science Seminars: A series of evening seminars designed to provide a review of basic topics are held on a weekly basis over a two-year period.

In addition to the above, residents have an opportunity to attend various sub-specialty rounds either at the Dr. Charles A. Janeway Child Health Centre or at the St. John's General Hospital where such rounds would appear to be contributory to his training.

Although formal rounds and didactic sessions are provided, it is felt that the most effective method of training is an opportunity to learn through patient care with a graded form of responsibility, and that the discipline of self-learning must be encouraged. The postgraduate student must assume major responsibility for his own education. The facilities of the Library within the Janeway Child Health Centre, plus that at the Faculty of Medicine on Campus, are available to the residents.

For those residents who are candidates for the examinations of the Royal College of Canada, opportunities will be provided for them to familiarize themselves with the techniques of examination, both written and oral, as utilized by that body.

PSYCHIATRY
Professor and Chairman
John Hoenig, M.D., M.R.C.P., D.P.M.

The residency teaching and training programme in Psychiatry is coordinated and fully approved by the Royal College of Physicians and Surgeons of Canada. The programme can accommodate Residents at every stage of their training, and includes so-called "core" years and "non-core" years.

The aim of the teaching programme is to give the Resident an all-round knowledge of modern psychiatry, including all its various sub-specialties like child psychiatry, forensic psychiatry, mental retardation, social psychiatry, psychotherapy, etc. The Resident will also be introduced into the basic disciplines underlying or associated with psychiatry, such as, clinical psychology, sociology, anthropology, ethology, statistics, genetics, the neurosciences, etc. In view of the special position of psychiatry having to deal - more than other branches of medicine - with both the biological and the behavioural sciences, as well as with the humanities, teaching in the philosophy of science and methodology is included in the programme.
THE TEACHING PROGRAMME

The clinical teaching and training is both practical and theoretical, the two being integrated as far as possible throughout the four years by making the case-conference-teaching exercises in the practical application of the clinical sciences. The resident takes clinical responsibility under supervision, and will take part in out-patient, day-patient, in-patient work. There are short stay and long stay beds to widen his experience and the Waterford Hospital also provides a boarding-out service as well as rehabilitation department where he can work.

There is a special clinical unit for child psychiatry with in-patient day-patient and out-patient services, and consultation services for the general child health centre in which the child psychiatry department is situated.

The theoretical teaching is conducted in seminars, journal club meetings, etc. and takes place on two afternoons per week throughout the academic year. Visiting teachers as well as local teachers from other disciplines take part in this programme.

ROTATION

The study-plan for each resident is determined by the Chairman in Psychiatry after discussion with the Resident concerned, so as to best meet his needs and interests. In order to give the Resident experience in the various fields of clinical practice he works in rotation in different types of clinical facilities, such as a general hospital psychiatric unit, a child psychiatric unit, a day hospital, a mental hospital, and a unit for the criminally insane. He will gain experience in electroencephalography, and other techniques associated with clinical practice.

There are possibilities to gain experience in various types of community services, such as, prison psychiatry, in school health services, and in a training centre for mentally retarded patients.

Prolonged research experience as well as up to one year in another training centre in this country or abroad is also looked on with favour and assistance is given in making such arrangements.

COMMUNITY ORIENTATION

Modern psychiatry is more and more concerned with treating patients in the community and hospitalization is looked on as merely an episode in the total management of the patient. In order to prepare the student for this type of practice, the programme makes full use of the community services which exist in the Province, including cottage hospitals, the Grenfell Mission Health Services for the Northern Peninsula and Labrador which
include radio links with outstations, and members of the Department of Health take an active part in the teaching. Full attention is given to administrative and organizational aspects of mental health care. The Province of Newfoundland has a long tradition of community mental health care and this is considered an important training ground.

M.Sc. AND Ph.D.
Graduate students wishing to obtain training in research can apply to be admitted to courses leading to an M.Sc. or Ph.D. Research projects in the field of clinical psychiatry are acceptable as well as projects in the field of the basic sciences pertaining to psychiatry. The courses may be taken part-time while the student is employed in a hospital or other type of work.

THE HOSPITALS
The following hospitals which are affiliated with Memorial University of Newfoundland offer training facilities in psychiatry:

The Waterford Hospital, St. John's
The St. John's General Hospital, St. John's
The Grace General Hospital, St. John's
St. Clare's Mercy Hospital, St. John's
The Dr. Charles A. Janeway Child Health Centre, St. John's

DIAGNOSTIC RADIOLOGY

Professor and Chairman
C. J. Hodson, F.F.R., F.R.C.P.

The programme in Radiology offers 4 years training fully approved by the Royal College of Physicians and Surgeons of Canada.

1st YEAR
Programme includes teaching of Physics and Photography related to Radiology, Radiobiology and Radiographic Anatomy. Pathology teaching is continuous throughout the first 3 years in the form of a Basic Science
Course supported by seminars, conferences and additional lectures on selected topics. Applied medical physiology includes the physiology of contrast media and diagnostic isotopes.

As well, a progressive exposure to radiological techniques of all sorts and basic instruction in the principles of film interpretation takes place throughout this year.

2nd, 3rd or 4th YEARS

The Diagnostic Radiological content of these years is spread widely over all the activities of radio-diagnosis including specialized procedures of all types. As well, continual clinical correlation is carried out through weekly Grand Rounds, Clinical and Pathological conferences, together with daily discussions with clinical groups in the Department. Weekly didactic lectures, daily seminars, daily case discussions and a tutorial system provide further guidance and stimulation throughout the three years. Rotation between the Affiliated Hospitals ensures that all Residents get specialized experience in Obstetrics, Paediatrics and Ultra-sound examinations together with the principles of Isotope examination.

3rd or 4th YEARS

Either in the third or fourth year Residents must spend one or two 6-month periods in one or more of the following:

(1) Internal Medicine, or a Clinical branch of Medicine related to Radiology.

(2) General Surgery, or a surgical specialty.

(3) Obstetrics.

(4) Full time basic science, or a full time research project.

(5) Training in Nuclear Medicine.

As an alternative to the above, for a period of 6 months, approved training may include 6 months in Diagnostic Radiology or 6 months in Therapeutic Radiology or 6 months in Nuclear Medicine.
SURGERY

Professor and Chairman
J. B. Littlefield, M.D., F.A.C.S.

GENERAL SURGERY

STRAIGHT INTERNESHP

Straight Intern positions are available for applicants who have completed a satisfactory clinical clerkship. This position is recognized by the Royal College as a year of Residency training; the Straight Intern functions within the Department as a First-Year Assistant Resident (Resident I).

The Straight Intern spends not less than 6 months in General Surgery; the remaining period is devoted to surgical sub-specialty rotations.

RESIDENCY TRAINING

The Memorial University Graduate Training Programme in General Surgery is carried out in the Affiliated Hospitals of Memorial University under the direction of the Chairman of the Department. The programme is recognized for full training by the Royal College. All trainees are postgraduate students in Memorial University during their residency training.

The residency period of 4 years offers graduated responsibility and experience in General Surgery, plus rotations designed to provide the trainee with a basic knowledge of Neurosurgery, Urology, Orthopaedics and Gynaecology (optional). Cardio-Thoracic, Paediatric and Plastic Surgery are integrated within General Surgery.

Throughout the programme there is an integrated exposure to applied basic science.

The Residency Programme is organized into three stages:

(a) A 2-year "core" period of basic surgical training in the capacity as an Assistant Resident (Resident - I and Resident - II). In each of these years not less than 6 months is spent in General Surgery, plus rotations of 3 months in each sub-specialty.

(b) The third year of the Four-Year programme is flexible but would normally include 6 months of Pathology with the remaining 6 months spent in General Surgery as a Senior Assistant Resident (Resident - III).
(c) The final year comprises an appointment as a Chief Resident. During this time there is provision for wider experience in General and Thoracic-Cardiovascular Surgery. The Chief Resident assumes increasing administrative responsibility and is actively involved in the teaching of undergraduate medical students.

This period of 4 years represents the basic training programme; additional training is provided for Residents interested in an academic career. This may include:

(a) Experience as a Research Fellow for one or two years to study towards an M.Sc. or Ph.D. in the Faculty of Medicine.

(b) One year of sponsored training in an internationally recognized surgical centre.

(c) One year as a Teaching Fellow in Surgery following completion of the Chief Residency. However, the training programme for an academic surgical career is usually planned on an individual basis with the Resident concerned.

There is an extensive teaching programme in Surgery which includes bedside teaching, journal clubs, surgical film presentations, radiology and surgical pathology seminars and formal Grand Rounds. A special course in the Basic Sciences is conducted by Memorial University of Newfoundland which extends throughout the year. Surgical Residents may participate as part-time Demonstrators in Anatomy during the undergraduate course in this subject.

Emphasis is placed on preparation for the specialty examinations of the Royal College and also the American Board of Surgery; regular tutorials or reviews and “in training” examinations are conducted.

Facilities are provided in the Experimental Surgical Laboratory for Residents who wish to develop special operative skills, or familiarize themselves with laboratory investigation.

In addition to applicants primarily interested in General Surgery, applications are encouraged from candidates requiring shorter periods of training as a prerequisite for full training in a sub-specialty. Every effort is made to provide a flexible programme best suited to the individual needs of the candidate.
# SCHEDULE OF ROUNDS AND CONFERENCES

**Monday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Neurology and Neurosurgical Rounds</td>
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<tr>
<td>3:00 p.m.</td>
<td>Bedside Teaching Rounds</td>
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**Tuesday**

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<th>Time</th>
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<tr>
<td>4:00 p.m.</td>
<td>Neurology and Neurosurgical Rounds</td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td>Basic Science Course (organized by the Memorial University Postgraduate Medical Studies Office)</td>
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**Wednesday**

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<th>Time</th>
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<tr>
<td>12:30 p.m.</td>
<td>Clinico-pathological Conference</td>
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<tr>
<td>2:00 p.m.</td>
<td>Radiology Review</td>
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<tr>
<td>3:00 p.m.</td>
<td>Surgical Film Presentation</td>
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**Thursday**

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<th>Time</th>
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<tbody>
<tr>
<td>4:00 p.m.</td>
<td>Bedside Teaching Rounds</td>
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**Friday**

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<th>Time</th>
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<tr>
<td>1:00 p.m.</td>
<td>Paediatric Surgical Rounds (The Dr. Charles A. Janeway Child Health Centre)</td>
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**Saturday**

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<th>Time</th>
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<tr>
<td>9:00 a.m.</td>
<td>Examination Review Session</td>
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<tr>
<td>10:00 a.m.</td>
<td>Surgical Pathology</td>
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<tr>
<td>11:00 a.m.</td>
<td>Surgical Grand Rounds</td>
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The hospital operates a busy Outpatient Department with approximately 30,000 visits per year, while the Emergency Department treats approximately 16,000 cases annually.

The hospital provides a complete range of Diagnostic and Therapeutic services including Diagnostic and Therapeutic Radiology, Medical Laboratory Services, Electrocardiography, Electroencephalography, Electromyography and Isotope Service, etc. The Laboratory also functions as the Public Health Laboratory for the Province and can therefore provide additional experience to Pathology Residents. Other special services include Intensive Care Unit and Inhalation Therapy, Coronary Care Unit, Pulmonary Function Unit, Cardiovascular Investigation Unit, Physiotherapy Department, Prosthetic Services and Ambulant Patient and Emergency Services.

An up-to-date, well equipped medical library employing a full-time librarian is operated for reference purposes. The hospital subscribes to a large number of major medical journals and new texts are added regularly.

New acute bed facilities for the General Hospital are currently being constructed as an integral part of the Health Sciences Complex on the University Campus with expected date of completion in the Fall of 1975.
Medical Director: H. J. Warrick, M.B., B.S.

The opening of a large, modern wing has enabled the Grace General Hospital, which was founded in 1923, to achieve a bed complement of 400 and develop a broad complex of clinical departments supported by a complete range of medical service units.

In addition to the Departments of Internal Medicine and Surgery, which have sixty beds each, there are separate clinical areas of Dermatology, Obstetrics and Gynaecology, Neurology, Ophthalmology, Otolaryngology, Psychiatry and Urology. A specially designed Neonatology Unit, embracing the latest concepts in newborn care complements a high-risk prenatal unit in the sixty-bed Obstetrical Department. Situated in the new wing, the Operating Room and Case Room suites are of the most modern design.

Coronary care and intensive care areas have been developed as well as a Renal Dialysis Unit. There is an active Physiotherapy Department, and special services of Occupational Therapy, Psychology and Social
Work in the Department of Psychiatry. There are well-staffed, well-equipped Departments of Radiology and Pathology both with a high degree of automation. Other service units include E.K.G. and Inhalation Therapy.

Conference rooms and rooms for small-group teaching are located throughout the hospital. Ward rounds and clinical conferences are held regularly in each department.

There is a well-equipped Medical Library with a full-time librarian. One hundred journals and periodicals are taken and there is a good selection of basic texts in all branches of medicine and surgery. General additions are made to the library each month.

The Grace General is a member of the Association of Canadian Teaching Hospitals.
ST. CLARE'S MERCY HOSPITAL

Administrator: Sister Mary Fabian, F.A.C.H.A.

The St. Clare's Mercy Hospital, formally opened in 1922 under the administration of the Sisters of Mercy, was a 20-bed general hospital. In 1939, the main building was opened with a 100-bed capacity. In 1961, an extension provided more modern and adequate facilities for the Obstetrical and Emergency Departments, as well as an Intensive Care Unit for the newborn, a well-equipped Coronary Care Unit and a small self-contained Psychiatric Division.

Construction of a new complex was completed in September, 1972. This wing comprises clinical laboratories, Pathology, Radiography Department, Emergency and Out-Patient Department, Physiotherapy, operating room suites, intensive care units, pharmacy, medical library, hospital auxiliary centre and administrative offices.

Two hundred new beds for medical and surgical patients have also been provided bringing the hospital's total bed capacity to 300.
Special features are a 24-bed Psychiatric Unit including an in-patient and day-care centre and other rehabilitative provisions, and a Rheumatic Diseases Unit which has recently been opened, sponsored in conjunction with the Canadian Arthritis and Rheumatism Society.

St. Clare’s Mercy Hospital is a Member of the Association of Canadian Teaching Hospitals.
The Dr. Charles A. Janeway Child Health Centre was formally opened in 1966. It has a total bed capacity of 280 and was developed after planning by the Provincial Government in collaboration with members of the Newfoundland medical profession and consultation with outstanding leaders in Paediatrics in Canada, the United States and Great Britain. It has been designed as a referral centre for children from the Province of Newfoundland and Labrador with facilities of a highly-specialized nature for the investigation and treatment of childhood disease. There are approximately 6,000 admissions per year to the hospital of whom more than 50% are from outside the St. John’s area.

The Medical Staff at the present time is organized into five departments: Paediatric Medicine, Surgery, Radiology, Anaesthesia and Pathology, together with sub-departments of Child Psychiatry, Neurology, Orthopaedics, Neurosurgery, Otolaryngology and Ophthalmology.
The hospital is extensively involved in the teaching of undergraduate medical students, Internes, and Residents. Teaching is primarily handled by the full-time and attending staff, all of whom hold Certification or Fellowship in the Royal College of Physicians and Surgeons of Canada. By agreement with Memorial University of Newfoundland, the Paediatrician-in-Chief is also the Professor and Chairman of Paediatrics. The hospital is approved for full training in Paediatrics by the Royal College of Physicians and Surgeons of Canada. Training in other specialties is in association with Memorial University of Newfoundland.

Outpatient and Emergency Clinics are under the direction of the Coordinator of Outpatient Services. In 1971, there were more than 44,000 visits to this area. Outpatient and emergency departments are a major teaching and training area both for Internes and Residents.

There is a hospital Medical Library containing the standard reference works in Paediatrics, as well as current editions of major journals. This library has a working arrangement with the other Medical Libraries in the city so that journals that are not available can be obtained through this co-operative arrangement. The library also has an extensive tape collection on topics in Paediatrics, Surgery, Anaesthesia and Internal Medicine.

The Housestaff of the Janeway Child Health Centre includes the clinical clerks (fourth year) and Rotating Internes from the integrated Memorial University programme, who usually spend two months on Paediatrics but may also serve on Paediatric Surgery and Orthopaedics. There are additional Straight Interneships available in Paediatrics. Residency appointments are for one or two years as a general rule, but six-month appointments are available in association with appointments in other specialties within the Memorial University programme.

The Dr. Charles A. Janeway Child Health Centre is a Member of the Association of Canadian Teaching Hospitals.
THE WATERFORD HOSPITAL

Administrator: Mr. G. E. Cummings

The Waterford Hospital, formally opened in 1855, is a 850-bed hospital located in the west end of St. John’s. The institution has received special recognition over the years for pioneering work in the development of a Day Treatment Programme. Its Postgraduate Programme in Psychiatry was one of the first in Canada to be organized under University auspices (Dalhousie University). The Residency programme of the hospital is part of the integrated training programme organized by the Department of Psychiatry of Memorial University of Newfoundland, which also includes the Psychiatric facilities in other affiliated teaching hospitals in St. John’s.

There is a complete range of Inpatient and Outpatient Services including a large “Boarding Care Programme” which utilizes private homes in the nearby area - 170 placements.

Senior full-time Faculty members of the University Department of Psychiatry as well as psychiatrists in private practice in this area participate in the clinical and educational programmes of the hospital. A number...
of general practitioners are also employed on a part and full-time basis, together with a full panel of consultants from every specialty.

Library facilities are available at the hospital, and investigative and diagnostic laboratories include clinical (biochemistry, haematology, bacteriology,) E.E.G. and X-ray facilities.
CHARLES S. CURTIS MEMORIAL HOSPITAL

Executive Director: Gordon W. Thomas, O.C., M.D., C.M., F.R.C.S. (C)

The Charles S. Curtis Memorial Hospital located in St. Anthony, Newfoundland, is the headquarters of the International Grenfell Association's world famous network of hospitals, hospital ship, and nursing stations servicing northern Newfoundland and Labrador.

The hospital, which opened on February 1, 1968, replaces completely the previous facilities, and contains 152 beds, an Intensive Care Unit, well-equipped Operating and Delivery Rooms, Outpatient Department, X-ray Department, Laboratory, Physio and Occupational Therapy Departments, and a medical library and lecture room. It is fully accredited by the Canadian Council on Hospital Accreditation.

The International Grenfell Association has had, for many years, an enviable reputation as an extremely interesting place to gain experience for medical work in isolated and rural areas of Canada, and the Charles S. Curtis Memorial Hospital is recognized by accrediting agencies for selected portions of Residency, Internship and clinical clerkship programmes.
APPENDIX I

LICENSED EXAMINATIONS IN NEWFOUNDLAND

For those who wish to obtain permanent license to practise in Newfoundland, following are the requirements for enabling certificates (subject to change).

Category

1. Medical students of Memorial University, and Newfoundland residents who are enrolled in other Universities in Canada or the U. S. A. who have satisfied the requirements of the University in which they are enrolled may be granted an Enabling Certificate to undertake the examinations of the Medical Council of Canada.

Category

2. Medical graduates of approved Universities in Canada, the United States of America, Australia, New Zealand and South Africa who are resident in the Province may upon application and payment of the usual fee be granted an Enabling Certificate to undertake the examinations of The Medical Council of Canada.

Category

3. Medical graduates of Universities in the United Kingdom or Ireland and persons who have taken the entire Medical Course in an approved Medical School and who possess the qualifications granted by one of the Conjoint Examining Boards of the United Kingdom or Ireland and who are fully licensed in this Province may upon application and payment of the usual fee be granted an Enabling Certificate to undertake the examinations of the Medical Council of Canada.
FOREIGN MEDICAL GRADUATES

Category

4. Medical Graduates of Universities in Foreign Countries which are listed by the World Health Organization, other than those otherwise specified, who have been granted Provisional Registration in this Province are required to have fulfilled residence and educational requirements set forth below in order to become eligible for an Enabling Certificate to undertake the examinations of The Medical Council of Canada.

(a) The applicant must have been resident in and under Provisional Registration in this Province for a period of two years.

(b) The applicant must have been the subject of recommendations acceptable to the Board from the authority sponsoring the Provisional Registration of the applicant.

(c) The applicant must have completed a Rotating Internship acceptable to the Board in an Internship programme in Canada in a University affiliated Hospital approved for Internship by the Canadian Medical Association or a University affiliated Hospital approved by the American Medical Association for internship training in the United States, and as well a second year of Resident or Intern training acceptable to the Board in an approved Hospital in Canada or the United States of America.

Candidates who have been granted certification in a specialty by the Royal College of Physicians and Surgeons of Canada may be exempted from the requirements of a Rotating Internship. In special circumstances the Registrar may be authorized to recognize one year of sponsored practice under the jurisdiction of the Board as being equivalent to the second required year of Internship or Resident training.
The map printed on the cover was made by Thomas Kitchin late 18th century and is reproduced here through the kindness of Mrs. May Roberts, St. John's.