

FACULTY OF
MEDICINE

1972-73

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1972-73



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S. CAMPBELL, A. J. CARRE, G. CLERK,
C. COHEN, G. COUTU, G. DaSILVA,
H. DAVANLOO, E. G. DEBBANE, H. EVANS,
F. FENTON, I. KRAULIS, F. E. KRISTOF,
S. LAL, G. LAROCHELLE, J. LEVY, D. LISSAK,
H. P. MALMO, E. MELVILLE, A. F. MESZAROS,
R. C. MUIR, A. K. MULLER, E. MALTCHAYAN,
C. NOVELLA, J. PAIMENT, E. J. PINTER,
R. A. RAMSAY, I. REBNER, P. D. L. ROPER,
E. ROSKIES, P. D. SCULLY, D. SILVER,
S. P. SIMONS, R. M. SMITH, S. STEIN,
L. G. STERN, A. A. SURKIS

Demonstrators — R. ARBITMAN, S. BAYRAKAL,
L. M. BUFFETT, P. B. CAMPBELL,
M. CERROLAZE, B. L. CHAGOYA, H. CVEJIC,
A. DAVID, H. FREEDMAN, J. P. GAMACHE,
P. D. GARCIA, L. GOMEZ-ANGEL,
G. GREGORIOU, G. P. HARNOIS,
R. KACHANOC, R. A. KELLER,
T. KOLIVAKIS, N. K. KYRIAPIDIS,
S. A. MARTIN, K. MISSALA, J. MONTPETIT,
G. O. PATTON, T. SALIM, A. M. SCHWARTZ,
G. TAHTA, M. TURSKI

DIAGNOSTIC RADIOLOGY

Professor — R. G. FRASER (*Chairman*)
Associate Professors — W. J. ALEXANDER,
W. P. BUTT, R. ETHIER, R. S. HARRIS,
B. NOGRADY, M. J. PALAYEW,
L. ROSENTHALL, I. SEDLEZKY,
F. WINSBERG

Assistant Professors — R. A. BEIQUE,
P. A. FARRER, P. J. FITZGERALD,
B. D. FLETCHER, J. H. GAGNON,
F. A. GRAINGER, B. B. HALE, R. O. HILL,
J. KISS, D. MELANSON, A. D. ROTENBERG,
G. SAHA, V. SAYEGH, G. B. SKINNER,
R. WILSON

Lecturers — F. M. BOSTON, J. D. CHAN,
C. M. COLE, J. M. DUMAS, J. D. GIBSON,
M. GOLDENBERG, M. J. HERBA, N. A. KHAN,
A. LISBONA, A. NAIMARK, M. NATHANSON,
H. PATRIQUIN, A. RAINBOW, P. SZENAS,
J. TOTH, M. USHER

Demonstrators — R. R. LESPERANCE,
J. LUSSIER-LAZAROFF, M. O'DONOVAN,
R. L. WEE

THERAPEUTIC RADIOLOGY

Assistant Professors — P. A. FARRER,
J. J. HAZEL (*Acting Chairman*), T. N. ROMAN
Lecturers — G. DOYLE, C. GRAVELINE

SURGERY

Professors — L. D. MacLEAN (*Chairman*),

A. R. C. DOBELL, D. R. MURPHY,
H. J. SCOTT, A. G. THOMPSON,
F. M. WOOLHOUSE

Associate Professors — J. H. DUFF,
R. D. GUTTMAN, L. G. HAMPSON,
E. J. HINCHEY, R. C. LONG, D. D. MUNRO,
W. L. OGILVY, H. F. OWEN, J. D. PALMER,
E. J. TABAH

Assistant Professors — H. E. BEARDMORE,
J. G. BEAUDOIN, N. S. BELLIVEAU,
P. E. BLUNDELL, H. C. BROWN,
A. C. DERBY, J. C. DICKISON, M. A. ENTIN,
R. L. ESTRADA, A. HRENO, G. M. KARN,
R. N. LAWSON, G. M. LEHMAN, D. T. W. LIN,
A. P. H. McLEAN, R. G. MARGOLESE,
R. MIDGLEY, E. D. MONAGHAN,
J. H. MOORE, J. MORIN, D. S. MULDER,
D. A. MURPHY, D. W. RUDDICK,
H. R. SHIBATA, H. SHIZGAL,
I. SHRAGOVITCH, H. H. SIGMAN,
H. B. WILLIAMS

Lecturers — C. M. ALLAN, R. A. BROWN,
M. S. CHUGTAI, D. B. FORBES,
A. N. FREEDMAN, R. G. W. GOODALL,
W. C. LLOYD-SMITH, K. G. McCULLOCH,
J. K. MacFARLANE, B. MARIEN,
R. V. MORALEJO, H. RABINOVITCH,
F. M. WIEGAND, J. A. S. WILSON

Demonstrators — L. J. GENENDER,
P. MADORE, C. J. PEARL, A. S. POPIERAITIS,
H. D. STEVENS

Division of Surgical Research

Director —

Professors — L. D. MacLEAN, D. R. MURPHY
Associate Professors — D. M. EDWARD,
J. GORDON, H. JEEJEEBHROY,
S. C. SKORYNA

Assistant Professors — H. HIMAL,
C. A. LAURIN, A. H. McARDLE, S. PITZELLE,
J. RIVILIS, N. M. SHEINER, Y. TANAKA
Lecturers — A. M. DANIEL, J. ROSENSWEIG

Division of Orthopaedic Surgery

Associate Professors — R. L. CRUESS,
J. M. McINTYRE, J. E. MILLER

Assistant Professors — I. S. BITENC,
N. MITCHELL, E. C. PERCY,
R. G. TOWNSEND, C. L. WILSON,
W. E. WILSON

Lecturers — C. E. BROOKS, A. A. BUTLER,
H. F. FARFAN, D. B. FORBES,
R. B. GLEDHILL, F. A. H. GREENWOOD,
J. L. SHUGAR, J. TEMPLETON,
A. M. WRIGHT

Demonstrators — D. S. DRUMMOND,
G. R. MURPHY, T. N. SILLER

Division of Urology

Professor — K. J. MacKINNON

Associate Professor — E. C. REID
Assistant Professors — D. D. MOREHOUSE,
B. M. M. MOUNT, J. OH, J. A. OLIVER,
Y. TAGUCHI

Lecturers — C. F. D. ACKMAN,
I. J. deDOMINICO, J. W. FOOTE,
J. GREISMAN, S. A. JACOBSON,
M. LaPLANTE, W. F. LINGARD,
S. G. MacISAAC, H. H. RABINOVITCH

Demonstrators — N. HALPERN, T. NEARING

2

GENERAL INFORMATION

The one hundred and fortieth session of the Faculty will open on September 6th, 1972 for students of the first three years.

Separate *Announcements* are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of scholarships, bursaries, prizes, medals, and loan funds are given in the *Scholarships Announcement*, which may be obtained from the Registrar's Office.

Administrative offices of the Faculty of Medicine are in the McIntyre Medical Sciences Centre, 3655 Drummond Street, Montreal. Note that the *official mailing address* of the University is: McGill University, P.O. Box 6070, Montreal 101, Que., Canada.

2.1 BUILDINGS

2.1.1 McINTYRE MEDICAL SCIENCES CENTRE

This building contains the Offices of Administra-

tion, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Physiology and a number of special research units.

2.1.2 STRATHCONA ANATOMY AND DENTISTRY BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

2.1.3 PATHOLOGY INSTITUTE

This building was opened for use in October 1924. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology, Immunology, Epidemiology and Health, and Pathology. The building has extensive facilities for teaching, research and diagnosis.

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2.1.4

MONTREAL NEUROLOGICAL HOSPITAL AND INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathology Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

2.1.5

ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in 1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

2.1.6

DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Anatomy and Dentistry Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the international Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research, the Gastrointestinal Research Institute and also provides facilities for many types of medical and surgical investigation.

2.2 HOSPITALS

2.2.1

MCGILL UNIVERSITY TEACHING HOSPITALS

There are four McGill University Teaching Hospitals. By agreement and tradition the administration, the medical staff and scientific personnel of these institutions are closely integrated

with McGill University and form the basis for the clinical departments of the Faculty of Medicine. They are the following:

- Royal Victoria Hospital
- The Montreal General Hospital
- The Montreal Children's Hospital
- Montreal Neurological Hospital and Institute

The Royal Victoria Hospital comprises the following units under one administration:

1. The Main Building;
2. The New Medical Wing;
3. The New Surgical Wing;
4. The Ross Memorial Pavilion for private patients;
5. The Women's Pavilion — Royal Victoria Montreal Maternity;
6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems are conducted in approximately 60 per cent of the deaths.

The Montreal General Hospital has a bed complement of 910 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 160,000 consultations in the Outpatient Department. The resident and intern staff numbers 175.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest in North America.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Faculty of Medicine of McGill University in 1829: the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital located on Tupper Street near the Atwater Metro Station has 343 beds (approximately 65% public beds), and, in a typical year, admits 12,300 patients. The Outpatient Department has approximately 170,000 visits, 40,000 in Emergency and 130,000 in the clinics. The hospital admits newborn infants, children and adolescents with all kinds of medical and surgical problems.

An active teaching program is maintained for the medical students and for the 125 interns and residents. The McGill University-Montreal Children's Hospital Research Institute is located in the hospital, and sponsors research and postgraduate education in disciplines related to problems of childhood.

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The Montreal Neurological Hospital and Institute, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2,200 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1,200 surgical procedures are carried out each year.

2.2.2 SPECIALTY TEACHING HOSPITALS

The following hospitals are affiliated with the McGill University Faculty of Medicine. All the departments and services of these hospitals participate in teaching and research in a single specialty:

Douglas Hospital
Royal Edward Chest Hospital

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,717 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

Third year undergraduate medical students of McGill University spend nine weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists, social workers, and field work experience for post-graduate training of professional personnel. An active research program is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It operates on an Outpatient and Inpatient basis. The Outpatient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculosis Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research program. Residency appointments number 10.

2.2.3 HOSPITALS PARTIALLY AFFILIATED WITH MCGILL UNIVERSITY

The following hospitals have been approved and have contracted with McGill University for participation in teaching and research in one or more departments and services:

Catherine Booth Hospital
Jewish General Hospital

- ✓ The Lakeshore General Hospital
- ✓ Montreal Heart Institute
- ✓ Queen Elizabeth Hospital of Montreal
- ✓ Queen Mary Veterans Hospital
- ✓ Reddy Memorial Hospital
- ✓ St. Mary's Memorial Hospital
- ✓ Shriners' Hospital for Crippled Children

2.3 LIBRARIES

2.3.1 MEDICAL LIBRARY

Medical Librarian — MR. DAVID BISHOP

The Medical Library is located on the second, third, and fourth floors of the McIntyre Medical Sciences Centre. The entrance to the library is on the third floor near the elevators. On this floor are found the Circulation Desk, the Reference Department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating space. Seating space on the fourth floor of the Library is reserved for medical students and academic staff. The Library offices are located on the second floor.

The Library is open during the academic session from Monday to Friday, 8:30 a.m. to midnight; Saturday and Sunday, 8:30 a.m. to 5:00 p.m. Changes in Library hours, and especially summer hours, are posted on the door of the Library as well as on bulletin boards elsewhere in the building.

The Library is for medical students and for those students in other faculties whose coursework requires the use of Medical Library material. The teaching staff of the whole University, and research workers and doctors in the city are entitled to use the Library. An extensive photocopy and inter-library loan service throughout the country is maintained. Reference services include access to computerized search facilities such as MEDLARS and SDI.

The chief value of the Library is its journal collection. Of 117,000 volumes held, over 88,000 are journal volumes, and approximately 1,600 titles in many languages are currently received. The book collection is especially noteworthy in the ophthalmology section, due in large measure to many gifts from the late Dr. Casey A. Wood. There are also small libraries and collections of books and journals in departments of the Faculty.

2.3.2 OSLER LIBRARY OF THE HISTORY OF MEDICINE

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library, entirely devoted to the medical-historical collection. Besides library offices and stack space, the Library consists of two reading rooms, the Wellcome Camera, accessible through the Main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 25,000 volumes in the history of medicine and its

sciences, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th, and 18th century medical books. In addition, all books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, a generous grant from the Wellcome Trust having made active growth of the Library possible. The Library is constantly adding to the collection, especially new books on the history of all aspects of medicine and medical people.

All books in the collection are available for use within the Library and the vast majority of them are loanable. Undergraduates and all interested persons may use the Library except as restricted by the attending Library staff. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana*; both are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

2.4 MEDICAL SOCIETIES

2.4.1 MCGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through its Council, which is composed of elected and appointed student representatives, the Society performs two main functions:

- 1) to represent the medical student body in all its dealings with the Faculty of Medicine, and

- 2) to regulate all Society affairs, e.g., Medical Ball, Banquet, and Essay Competition.

In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have

been scheduling of Fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, *The McGill Medical Journal*, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly *Bulletin* to inform students of current news and upcoming events, and an annual yearbook, *The Speculum*.

Active participation in Society affairs is one of the best ways of complementing medical school experience.

2.4.2 OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes students from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

2.5 ACADEMIC CREDIT TRANSFER AGREEMENT

Students wishing to take courses for credit towards their McGill degree at either Sir George Williams University, Université de Montréal, or Université du Québec à Montréal should refer to the section entitled "Academic Credit Transfer Agreement" in the *General Announcement* for details.

3 CURRICULA, COURSES OF STUDY AND PROGRAMS

3.1 FOUR-YEAR PROGRAM IN MEDICINE

3.1.1 APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made on the regular application form which may be obtained from the Associate Dean, Room 609, McIntyre Medical Sciences Centre, or from the Registrar's Office.

As the number of students in each class is limited, application should be made as soon as possible after September 1st and not later than March 1st. Each application must be accompanied by a non-returnable fee of \$10.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. This deposit is not refundable after May 15th. If the applicant registers within the prescribed registration period in September, this fee will be credited

MEDICINE

on his University fees. If he fails to register the fee lapses and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

3.1.2 REQUIREMENTS FOR ENTRANCE

1. (a) *Total Academic Credits:* The minimum requirement for admission to the medical program is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science, in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Students in the Province of Quebec completing the two-year program in Quebec Colleges of General and Professional Education are eligible to submit an application. Successful applicants in this category will enter a five-year program; the first year taken in the Faculty of Science will supplement the undergraduate pre-medical training provided by the CEGEPs, following which the student proceeds into the present four-year medical curriculum.

(c) *Scientific Requirements:* In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including general chemistry and organic chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, one course in Cellular Biology.

(d) *Cultural Requirements:* These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English literature and composition and in Mathematics. In addition, a working knowledge of French is helpful for third- and fourth-year medical students. It is advisable that each applicant present evidence of such preparation.

(e) All candidates for admission to the Faculty of Medicine are required to take the Medical College Admission Test conducted by The Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or to furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the third year of undergraduate study.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical program as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his program in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the natural or the social sciences or the humanities. Certain subjects which, though not essential, have been found

valuable in medical study and which may be included as electives if the curriculum in the major field permits, are psychology, sociology, and genetics.

Students with a strong interest in science and with aptitude for scientific studies should consider pursuing Physiology, Histology, or Biochemistry at the B.Sc. level to a high standard, and all of these subjects provide an excellent background for entry to medical school. Other students may prefer to acquire a broader educational background during their premedical training, and the Admissions Committee will consider admission into Medicine from students of high standing, independently of the scientific background they may have acquired during their premedical program.

The students' attention is called to the memorandum printed in the *Announcement of the Faculty of Arts and the Faculty of Science*, for the guidance of those who wish to enter Medicine.

3.1.3 EQUIVALENT STANDING

A student of another medical school who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical program he has followed and the standing he has obtained. This should be accompanied by a calendar of the medical school in which he has studied, giving a full statement of the course of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

3.2 REGISTRATION

Students in the Faculty of Medicine will register on Tuesday, September 5th, 1972. There will be a late registration fee of \$25.00. The fee will not be refunded except by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

3.3 FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the *General Announcement*.

3.3.1 UNIVERSITY FEES

1. Four-year program in Medicine

First to third year	\$800.00
Fourth year	805.00
2. Repeating Students
Students repeating a year pay full fees.
3. Ad Eundem Fee
Students entering any year above the first, pay a special *ad eundem* fee of 10.00

3.3.2 GENERAL REGULATIONS

1. Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Department.

The first instalment is due within 10 days after registration, the second instalment before January 13, 1973.

A late payment fee of \$10.00 is charged for payment during the first 30 days after registration. A late payment fee of \$25.00 is charged thereafter.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Department before August 23, 1973, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain a Permit to Delay Payment of Fees from the Student Aid Office, McGill University.

The second instalment is due January 13, 1973. A late payment fee as mentioned above is charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the *General Announcement*.

3.3.3 MICROSCOPES

The Faculty provides all students in first and second year with a first quality binocular microscope. In this way, all students have the same experience in microscopy as it applies to Histology, Microbiology, Pathology and Microhistology. A small fee is charged for the rental of these microscopes to cover general repairs and maintenance costs.

3.3.4 BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the *General Announcement*.

3.3.5 HEALTH SERVICE

For details of the Health Service and medical examinations see the *General Announcement*.

3.4 COURSES FOR THE DEGREE OF M.D.,C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including:

- a) four years of medical study in the University leading to the degree of M.D.,C.M.; and
- b) one year of internship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for internships, the Faculty of Medicine assumes no responsibility to provide an internship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The work of the Curriculum Review Committee has led to the development of a rich and varied curriculum with increasing emphasis on integration and coordination of course content, both in basic science and clinical years. A number of integrated courses are now offered, and this trend will likely continue. A twenty-nine week elective program during the second, third, and fourth sessions provides the student with the opportunity to make an earlier career choice, to return to a more intensive study of a basic science during the clinical years, or to simply explore a new or different medical or paramedical area.

**FIRST SESSION
(40 weeks)**

Anatomy (including Embryology), Biochemistry, Histology, History of Medicine, and Physiology. Integrated courses in Behavioral Science, Biology of Disease I (Epidemiology and Health, medical Microbiology, Genetics, and Pathology), and Endocrinology. An introductory course in Obstetrics is offered towards the end of the first session.

**SECOND SESSION
(40 weeks)**

During the first half of this session, integrated courses are offered in Biology of Disease II (Epidemiology and Health, medical Microbiology, special Pathology, and Pathophysiology) and the Central Nervous System (Neuroanatomy, Neurophysiology, and Psychology). In the

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second half, the emphasis shifts to the Introduction to Clinical Science, and the session concludes with an eight week elective period. Early in the second half, the student is introduced to Pharmacology and Therapeutics, medical jurisprudence, and the fundamentals of Anaesthesia and Ophthalmology.

THIRD SESSION (36 weeks)

Four nine-week blocks of Medicine, Surgery, Psychiatry, and Elective. In addition, clinical teaching in Neurology and Neurosurgery, Ophthalmology, Otolaryngology, and Radiology. A full lecture course in Pharmacology and Therapeutics is offered during the session.

FOURTH SESSION (Clinical Clerkship — 52 weeks)

All students rotate through clinical services in Medicine, Surgery, Paediatrics, and Obstetrics and Gynaecology. In addition, a 12-week elective period is provided. On each of these services, the clinical clerk will occupy a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care. This fourth-year clerkship establishes a more appropriate gradient of responsibility, allowing a senior student to have an excellent opportunity to improve on the major gains in clinical skills and professional maturity made during the third year.

The clinical clerkship is structured to satisfy the demands of most licensing bodies. Consequently, students may enter directly into straight internships as a first phase of their specialty training.

Each student will receive a stipend of \$188 per month from the Provincial Government and is entitled to four weeks vacation which must be taken during the first four weeks of the clerkship.

3.5 CURRICULUM REVIEW

The Faculty realizes that there is a need for constant review of the medical curriculum necessitated by:

- Current rapid advances in scientific knowledge.
- Probable changes in the role of the medical school in relation to the community with concomitant changes in the delivery of health care.
- Continued application of principles developed in the field of general educational science to medical education.

Therefore a permanent student-faculty curriculum committee operates within the Faculty of Medicine. This Committee is charged with the task of studying the necessity for further curriculum revision, and planning the implementation of any modifications thought desirable.

3.6 EXAMINATIONS

The examinations taken within the Faculty of Medicine are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health, Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology and Introduction to Clinical Sciences.

A student who fails in any major examination will be required, before he writes a supplemental examination, to present to the Dean's office from the senior professor of the department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat his year, and no student may repeat such a year more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one year must repeat this year or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may

proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year must attain an overall average of 65% in order to continue in his program.

There shall be Promotion Committees for each year, consisting of representatives, appointed by the Dean, of the Departments offering major or minor examinations during that year, and the Dean (ex officio). Each Committee will pass on all cases of students who fail to satisfy course requirements in the respective year.

No evaluation, examination mark, etc., shall be considered final until passed by the Promotion Committee.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

3.6.1

GRADING

The Faculty employs a modification of the pass-fail system. This means that no marks or grades are released to any agency, institution, or individual outside McGill University. All departments bear responsibility for evaluation of the students' performance and submit all final evaluations to the appropriate Promotion Committee of Faculty. Following approval by the Promotion Committee, the evaluation data are recorded in the dean's office and form part of the students' permanent academic files.

3.7 REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1) Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2) He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.

3) No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.

4) Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.

5) He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in medicine, surgery, paediatrics and psychiatry and have fully reported upon the prescribed number of cases.

6) He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7) Every candidate must also have administered anaesthetics, under direction, at least six times.

THE CANADIAN INTERN MATCHING SERVICE

3.7.1

The Matching Service is a clearinghouse designed to help final year medical students obtain the internships of their choice, and to help hospitals and internship program directors obtain the students of their choice. It provides an orderly method for students to decide where to intern and for hospitals to decide which applicants they wish to enrol. For both students and program directors, it removes the factors that generate unfair pressures and premature decisions.

The Matching Service acts as the student's agent on the instructions embodied in the student's confidential list of all the internships for which he or she has applied, ranked in order of preference. Similarly, the Matching Service acts as the hospital's agent on the instructions embodied in its confidential list of all the students who have applied, ranked in order of the hospital's preference.

The CIMS is operated by the Association of Canadian Medical Colleges. Policy is under the control of an Advisory Committee on which seven national medical organizations directly involved in medical education are represented. Student representatives are invited to attend

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and to participate in the Advisory Committee meetings.

The CIMS brochure and relevant documents for participation in the matching program are distributed annually in June to all final year medical students through each Dean's office. Further information is available from the CIMS office, c/o A.C.M.C., 151 Slater Street, Ottawa, K1P-5H3, Ontario (telephone 613-237-0070).

3.8 REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

Non-Canadian candidates wishing to practise medicine in the Province of Quebec must have a working knowledge of French before they will be granted a permanent licence.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

QUEBEC — Dr. A. Roy, 1440 St. Catherine St. West, Montreal 107, P.Q.

ONTARIO — Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B.

NOVA SCOTIA — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

MANITOBA — Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man.

ALBERTA — Dr. R. Woolstencroft, 9901-108th Street, Edmonton, Alta.

SASKATCHEWAN — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. W. G. McClure, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND — Dr. G. M. Brownrigg, 47 Queens Road, St. John's, Newfoundland.

3.8.1 MEDICAL COUNCIL OF CANADA

In order to take the examination of the Medical

Council of Canada, a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Box 8234, 1867 Alta Vista Drive, Ottawa, Ontario, Canada.

3.8.2 GENERAL COUNCIL OF MEDICAL EDUCATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

3.9 GRADUATE PROGRAMS LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine in conjunction with the basic science departments and the affiliated teaching hospitals offers a wide variety of programs leading to degrees of M.Sc. and Ph.D. or to McGill Certificates of Intern and Resident Training. Details of the graduate programs available are included in the McGill Calendar of Intern and Resident Training Programs and in the Calendar of Graduate Studies in Medical and Allied Sciences.

3.9.1 INQUIRIES

Initial inquiries and inquiries of a general nature should be addressed to the Associate Dean (Postgraduate Medical Education) of the Faculty of Medicine.

Inquiries about the details of individual diploma programs should be addressed to the Chairman of the department concerned.

3.10 GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Facilities for graduate work in the basic medical sciences and in the clinical sciences are offered by many of the Departments of the

Faculty of Medicine.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital and the Royal Victoria Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery and Paediatrics who are responsible for the direction of research programs; and for administrative purposes graduate work in these areas is grouped under the Department of Experimental Medicine, and the Division of Experimental Surgery, which is a branch of the Department of Surgery.

Inquiries concerning research education in the medical sciences may be directed to the appropriate Departmental Chairman or to:

Associate Dean for Graduate Studies and Research
The Faculty of Medicine

McGill University

P.O. Box 6070, Montreal 101, Quebec.

3.10.1 ENROLMENT AS A PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D. degree, but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the department, either directly or through the student's tutor with the Chairman of the medical science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

4 COURSES OF INSTRUCTION

4.1 ANAESTHESIA

4.1.1 UNDERGRADUATE COURSES

501-121M. A student in Medicine, before reaching that part of the curriculum which deals with clinical anaesthesia, will have acquired during his earlier years at the university an introduction into the Basic Sciences on which the discipline of Anaesthesia is based.

501-221M. During the Second year a series of lectures is presented on clinical anaesthesia and its related areas. At these sessions the student is instructed in the Physiopathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques. This series will serve as a background for the administration of anaesthesia and the care of patients undergoing surgery.

501-321M. 501-421M. In the Third and Fourth years there is an opportunity for the student, while undertaking his surgical training, to spend some time with an anaesthetist in the operating room.

4.1.2 ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education). An elective is also offered during any of the undergraduate years to work in one of the anaesthesia laboratories.

4.1.3 POSTGRADUATE AND CONTINUING EDUCATION

See *Announcement of the Faculty of Graduate Studies and Research*.

4.2 ANATOMY

4.2.1 REQUIRED COURSES

1. GROSS ANATOMY 501-121M. *Dissection and lectures cover the gross anatomy of the body. The course includes Embryology, Surface and Radiological Anatomy and an introduction to Clinical Anatomy.*
2. INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM 501-221M. *For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery 531-221M.*
3. APPLIED ANATOMY. *Designed for graduate students.*
Texts: E. Gardner, D. J. Gray, R. O'Rahilly, Anatomy, 2nd ed. (W. B. Saunders, 1963); D. F. Davies, Gray's Anatomy, 34th ed. (Longmans, 1967); J. C. B. Grant, An Atlas of Anatomy, 5th ed. (William and Wilkins, 1962); J. T. Aitken et al., A Manual of Human Anatomy, 2nd ed., 5 vols. (Livingstone, 1964); J. Langman, Medical Embryology (Williams and Wilkins, 1963).

4.2.2 ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4. ADVANCED NEURO-ANATOMY. *Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.*

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4.2.3

MICROSCOPIC ANATOMY Required Course

6. HISTOLOGY. *The study of the cytology and structure of tissues and organs.* Texts: A. W. Ham, *Histology*, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, *A Textbook of Histology*, 8th ed. (Saunders, 1962).

4.2.4

EMBRYOLOGY Required Course

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY. This course is integrated with 1. *Gross Anatomy.* Texts: J. Langman, *Medical Embryology* (Williams and Wilkins, 1963); L. A. Arey, *Developmental Anatomy*, 6th ed. (Saunders, 1954); W. J. Hamilton et al., *Human Embryology*, 2nd ed. (Heffer, 1952). For graduate courses, see the *Announcements of the Faculty of Graduate Studies and Research.*

4.3 BIOCHEMISTRY

4.3.1

FIRST YEAR (507-121M)

Two periods of lectures and clinical demonstrations and four hours of laboratory work per week. An *Endocrinology* course given jointly with the Departments of Physiology, Anatomy, and Obstetrics and Gynaecology is included in the *Biochemistry* course.

4.3.2

ELECTIVES

A limited number of students in their Second, Third and Fourth years may take their ten week elective periods in the Department. Students will be assigned original research projects in the Department and under the direction of a member of its staff. They will also take part in all Departmental and group seminars and audit graduate courses. Students who plan to spend all three elective periods on one project will be particularly welcome and may hope to complete a useful piece of research.

4.3.3 OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry current undergraduate and graduate courses in biochemistry are recommended. (See the *Announcements of the Faculty of Arts and the Faculty of Science and the Faculty of Graduate Studies and Research.*)

4.4 EPIDEMIOLOGY AND HEALTH

4.4.1

REQUIRED COURSES

BIOLOGY OF DISEASE. This course replaces the previous course in *Epidemiology and Health* (120 hours).

4.4.1.1

FIRST YEAR (513-121M)

GENERAL BIOLOGY OF DISEASE. A co-ordinated course to be presented by the Departments of *Epidemiology and Health, Genetics, Microbiology and Immunology, and Pathology* during

the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.

4.4.1.2

SECOND YEAR (513-221M)

BIOLOGY OF DISEASE. A twenty-three week co-ordinated program during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.

The contribution of the Department of *Epidemiology and Health* to this program will include the epidemiology of the main diseases, the factors influencing prevention, and control of disease. The organization of public health, occupational and medical care services is considered within the *Introduction to Clinical Studies*. Substantial time is given to small group project work during the course.

(2nd yr.). MEDICAL JURISPRUDENCE. Course of 9 lectures by speakers from the Faculty of Law.

4.4.2

ELECTIVE COURSES

STATISTICAL PROCEDURES IN MEDICINE. Full time course of tuition and laboratory work on statistical methods and study design relevant to epidemiology and other medical disciplines. Personal investigation is also made. Limited to 5 students. (May, June).

PRINCIPLES OF EPIDEMIOLOGY AND MEDICAL STATISTICS. Full time course, part time tuition over four weeks, together with personal research on a problem chosen by the student. Limited to 5 students. (September, October).

EPIDEMIOLOGY. Full time course, half given to review in depth of selected epidemiological problems, the remainder to personal research. Limited to 5 students. (Beginning mid-January).

OCCUPATIONAL AND ENVIRONMENTAL MEDICINE. Full time course of tuition and laboratory work dealing with the effects of the working environment on health including practical experience in industry and opportunity for personal investigation. Limited to 5 students. (November-December).

RESEARCH PROJECT. Supervision is available for any student with particular interest in a field of work within the province of the department to carry out, by arrangement, an agreed study project.

4.5 HISTORY OF MEDICINE

4.5.1

REQUIRED COURSE

HISTORY OF MEDICINE 522-121M (First year). A series of 20 lectures providing a survey of the natural, social and intellectual background to modern medicine.

From time to time, and at the request of other departments, single lectures are given on the history of special subjects within courses being taught by those departments.

4.5.2

ELECTIVE

ADVANCED WORK AND RESEARCH. Opportunity is offered for a limited number of students to pursue advanced work or research in the history and philosophy of medicine, its science and public health. See *Elective Catalogue* for details.

4.6 MEDICINE

4.6.1 THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

The object of the medical curriculum is to encourage in each student the development of critical judgment as he acquires a sound knowledge of the Basic Sciences essential to an understanding of disease processes, and supervised experience in their recognition and treatment of disease in a clinical setting. Personal contact between students and instructors at all levels is emphasized, and increasing use is made of new instructional aids.

A thorough understanding of the mechanisms of disease is provided by the Basic Science portion of the curriculum. This is consolidated and enhanced in the clinical years by association in the teaching hospitals with medical scientists working in the modern scientific laboratories devoted to clinical investigation. Every attempt is made to provide individual instruction wherever possible. Emphasis is given to a sympathetic understanding of the problems of sick individuals, as well as the treatment of their specific illnesses.

4.6.1.1

SECOND YEAR (525-221M)

INTRODUCTION TO CLINICAL SCIENCES.

Third term of second year in the Teaching Hospitals.

Subject Material

Students are given intensive instruction in basic clinical skills. They are also taught how to perform routine laboratory tests. Ample opportunity is then available for them to practise these clinical skills on the wards of the teaching hospitals. Students are assigned cases for complete clinical workup. These cases are written up and presented to an experienced clinical instructor. Although emphasis is placed on learning how to take a meaningful history and perform an accurate physical examination, students are also encouraged to begin to develop skill in diagnosis and investigation of a patient's problems. They are expected to read in the general texts around the cases which they encounter.

THIRD YEAR (526-321M)

BLOCK TEACHING IN MEDICINE. *For a period of 9 weeks, each student spends his full day on the wards of one of the teaching hospitals. He studies individual cases, writes case reports, presents cases at the bedside, does routine laboratory tests on them, and perfects the skills he acquired in Second year. His work is closely supervised by Teaching Fellows, and bedside clinics are conducted at least twice a week by his Attending Staff instructor. Further assistance in understanding the meaning of the clinical expression of the diseases he encounters is provided for by intensive reading. There are regular instructional periods in Ophthalmology, Dermatology, Radiology, and Electrocardiography.*
Physician-In-Chief rounds are held weekly.

FOURTH YEAR (526-421M)

Extensive experience in Medicine is provided in the

Fourth year. The senior student becomes integrated into the team of staff, residents and internes, with an increasing share in the responsibility for the care of patients on the wards and in the Outpatient Department. An intramural program of seminar teaching in specialty subjects is provided as well during this time.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Additional information can be obtained from the Associate Dean (Medical Education).

4.6.2

EXPERIMENTAL MEDICINE

See *Announcement of the Faculty of Graduate Studies and Research*.

4.7 MICROBIOLOGY AND IMMUNOLOGY

All lectures and laboratory periods are held in the Pathology Institute.

BIOLOGY OF DISEASE. This course replaces the previous course in Medical Microbiology given in Second year.

4.7.1

FIRST YEAR (528-121M)

GENERAL BIOLOGY OF DISEASE. *A co-ordinated course to be presented by the Departments of Epidemiology and Health, Microbiology and Immunology, and Pathology during the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.*

4.7.2

SECOND YEAR (528-221M)

BIOLOGY OF DISEASE. *A twenty-three week co-ordinated program during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.*

4.7.3

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.7.4

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the *Announcements* of the Faculty of Arts and the Faculty of Science and the Faculty of Graduate Studies and Research.

4.8 NEUROLOGY AND NEUROSURGERY

4.8.1 SECOND YEAR (531-221M)

INTRODUCTION TO THE CENTRAL NERVOUS SYSTEMS. *Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Lectures, laboratory work and clinical demonstrations during the first and second quarters.*

PROFESSORS McNAUGHTON, GLOOR AND STAFF

INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.

PROFESSOR ROBB AND STAFF

NEUROPATHOLOGY. Given in conjunction with the Department of Pathology.

PROFESSORS MATHIESON AND CARPENTER

4.8.2 THIRD YEAR (531-321M)

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

PROFESSORS RASMUSSEN, ROBB, BAXTER, WATERS AND STAFF

4.8.3 FOURTH YEAR (531-421M)

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

PROFESSORS RASMUSSEN, ROBB, BAXTER, WATERS AND STAFF

4.8.4 ELECTIVE PROGRAM

Ten week periods of clinical clerkship or supervised research in one of the Neurosciences for Second, Third and Fourth year medical students. Consult *Elective Catalogue* for details.

4.8.5 DIPLOMA IN NEUROLOGY

See *Announcement of the Faculty of Graduate Studies and Research.*

4.8.6 DIPLOMA IN NEUROSURGERY

See *Announcement of the Faculty of Graduate Studies and Research.*

4.9 OBSTETRICS AND GYNAECOLOGY

4.9.1 UNDERGRADUATE PROGRAM

The course is designed to impart a fundamental knowledge, in theory and practice, of the processes of Human Parturition and Gynaecology. The student is introduced to the subject in the First year. In Second year during the winter term, a course is devoted to Obstetrics and Gynaecologic history-taking and clinical and laboratory techniques for diagnosis as part of the integrated Introduction to Clinical Sciences Course.

Thereafter in Fourth year, intensive teaching is carried out using to the full the facilities of the Royal Victoria-Montreal Maternity Hospital, the Montreal General Hospital, the Catherine Booth Hospital and the Reddy Memorial Hospital.

4.9.1.1 Required Courses

FIRST YEAR (534-121M). Fourteen hours are devoted during the final quarter of the First year to a coordinated intensive introduction to human reproductive biology, using as a model concurrent studies in the fields of embryology, anatomy and the particular biochemical and endocrine aspects of the subject. The course closes with a description of the physiology of pregnancy and labour. This course amplifies and defines those aspects of the Behavioural Sciences concerning reproduction which are taken during the same teaching term.

SECOND YEAR (534-221M). During this year the student is introduced to the clinical diagnosis of the female patient as part of the Introduction to Clinical Sciences Program.

FOURTH YEAR (534-421M). During an 8 week period in the teaching hospitals students "live in" and participate fully as clinical clerks in all phases of the research, investigative and specialized work of the department. Following the prepared program ensures that the student will proceed to his final oral examinations exposed to all phases of Obstetrics and Gynaecology.

4.9.1.2 Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Textbooks: N. J. Eastman and L. M. Hellman, *Obstetrics* (Appleton); Jeffcoate, *Principles of Gynaecology* (Butterworth); Ralph C. Benson, *Handbook of Obstetrics and Gynaecology*.

Ancillary Reading: (1) Harry Oxorn and W. R. Foote, *Human Labour and Birth* (Appleton, 1967). (2) Danforth, *Textbook of Obstetrics and Gynaecology* (Harper & Row).

4.9.2 GRADUATE PROGRAM

See *Announcement of the Faculty of Graduate Studies and Research.*

4.10 OPHTHALMOLOGY

4.10.1 UNDERGRADUATE COURSES

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

4.10.1.1 Second Year (537-221M)

1. ROUTINE EXAMINATION OF THE EYE. *The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized. 5 hours.*

2. PATHOLOGY OF THE EYE. (6 hours: two periods of 3 hours each).
3. LECTURES TO THE ENTIRE CLASS. A survey of the entire field designed to furnish a background of essential information for the clinical work. (9 hours).

4.10.1.2 **Third Year (537-321M)**

PRACTICAL OPHTHALMOSCOPY. Montreal General and Royal Victoria Hospitals. (9 hours).

4.10.1.3 **Fourth Year (537-421M)**

PRACTICAL CLINICAL OPHTHALMOLOGY. Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice. (9 hours).

4.10.1.4 **Electives**

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Texts: Francis H. Adler, *Textbook of Ophthalmology*, 7th ed. (Saunders, 1962); J. H. Allen, *May's Manual of the Diseases of the Eye*, 23rd ed. (Williams & Wilkins, 1963); Sidney Lerman, *Basic Ophthalmology* (Blakiston Divn., McGraw-Hill, 1966).

References: W. S. Duke-Elder, *System of Ophthalmology*, 7 vols. (Kimpton, 1958-67); W. S. Duke-Elder, *Textbook of Ophthalmology*, 7 vols. (Mosby, 1932-54); Eugene Wolff, *Anatomy of the Eye and Orbit* (Blakiston, 1954); Eugene Wolff, *Pathology of the Eye*, 3rd ed. (Blakiston, 1951); Francis H. Adler, *Physiology of the Eye*, 4th ed. (Mosby, 1965).

4.10.2 **GRADUATE PROGRAM**

See *Announcement of the Faculty of Graduate Studies and Research*.

4.11 OTOLARYNGOLOGY

4.11.1 **UNDERGRADUATE COURSES**

Instruction in Otolaryngology is given to students in the first, second, third and fourth years and is designed to cover the basic principles and clinical aspects of the specialty. Clinical courses are conducted on the Wards and in the Outpatient Departments of the Royal Victoria Hospital and the Montreal General Hospital. As much as possible, demonstrations are carried out before small groups of students.

4.11.1.1 **First Year (540-121M)**

An introductory course in clinical anatomy pertaining to the ear, nose and throat is presented during the First year. The emphasis is upon demonstration of normal anatomy and methods of physical examination.

4.11.1.2 **Second Year (540-221M)**

The academic year 1968-69 saw the introduc-

tion of a new course, "Introduction to the Clinical Sciences". The Department of Otolaryngology actively participates in this course, providing six hours of instruction in Otolaryngological history taking and methods of physical examination. At the conclusion of these presentations, the student should be fully conversant with medical transcript as it pertains to Otolaryngology, as well as with the instrumentation used in patient examination. Emphasis will not be placed upon ear, nose and throat disorders, as such, but rather upon the examination of the normal patient.

4.11.1.3 **Third Year (540-321M)**

"Block Time" clinical instruction is given to small groups of students formed into sessions of six mornings per group. In these sessions didactic lectures are given relating to ear, nose and throat disorders and the students are given the opportunity to conduct examination on hospital patients with demonstration of ear, nose and throat pathology as such.

4.11.1.4 **Fourth Year (540-421M)**

Clinical clerkships were introduced in the academic year 1969-70. In the Department of Otolaryngology the student is incorporated as a house officer during this period and thereby attends clinics, conducts patient examination under supervision, participates in ward rounds, weekly conferences and observes in the Operating Theatres. The students are encouraged to make presentations during this "living in" period and openly discuss the current problems seen under these circumstances.

4.11.1.5 **Elective Opportunities**

The Department of Otolaryngology offers elective opportunities to the second, third and fourth year medical students in both research and clinical divisions. Since the introduction of the elective scheme in 1969 the Department of Otolaryngology has offered elective opportunities both in research and clinical studies to four students per quarter.

4.11.2 **GRADUATE PROGRAM**

See *Announcement of the Faculty of Graduate Studies and Research*.

4.12 PAEDIATRICS

4.12.1 **REQUIRED COURSES**

4.12.1.1 **First and Second Years (543-121M; 543-221M)**

An introduction to Paediatrics is provided by the Staff of the Department of Paediatrics in the Behaviour Course given to First year and The Introduction to Clinical Sciences Course, presented in the last term of Second year.

MEDICINE

4.12.1.2

Fourth Year (543-421M)

A 9 week clerkship in paediatrics as a member of a clinical ward service provides the opportunity for experience in the management of paediatric problems under supervision. In addition to regular ward rounds, clinical pathological conferences and grand rounds, the clinical clerks participate in a series of conferences structured to provide a review of the essentials of paediatrics.

4.12.2

ELECTIVES

Twenty major elective opportunities available to second, third and fourth year students include clinical and Ambulatory Paediatrics, Paediatric sub-specialties and paediatric research including Biochemical Genetics, Endocrinology, Neonatology, Nephrology and cardio-respiratory investigation. Details of this program are published in a separate *Elective Catalogue*. Further information can be obtained from the Associate Dean (Medical Education).

4.13 PATHOLOGY

4.13.1 REQUIRED UNDERGRADUATE COURSES

1. BIOLOGY OF DISEASE. This course replaces the previous course in General Pathology (100 & 101) — 120 hours and the course in Special Pathology (200 & 201) — 150 hours.
2. GENERAL BIOLOGY OF DISEASE (FIRST YEAR). (546-121M). A co-ordinated course to be presented by the Departments of Epidemiology & Health, Genetics, Microbiology and Immunology, and Pathology during the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.
3. BIOLOGY OF DISEASE (SECOND YEAR). (546-221M). A twenty-three week coordinated program during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.
4. COURSE IN APPLIED PATHOLOGY (THIRD YEAR). (546-321M, 300). Weekly clinicopathological conferences throughout one section of the Third year totalling 18 hours.
COURSE ADMINISTRATOR, DR. J. KNAACK

4.13.1.1

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.13.2

GRADUATE COURSES

See the *Announcement of the Faculty of Graduate Studies and Research*.

4.14 PHARMACOLOGY AND THERAPEUTICS

The basic medical course in Pharmacology and Therapeutics is designed to provide a systematic coverage of the pharmacodynamics of the more important groups of drugs, the factors that control and modify their effects, and the basis for selection and use of drugs in the treatment of disease.

SECOND YEAR. (549-221M). Three hours a week during the third quarter.

THIRD YEAR. (549-321M). Two hours a week throughout the year.

ELECTIVES

Facilities are available for a limited number of students to undertake research in pharmacology in any year of their medical course or during the summer. Work in clinical pharmacology can also be arranged for students in the Third and Fourth years of the medical program.

4.15 PHYSIOLOGY

FIRST YEAR

552-121M. *Course of human system Physiology for students without previous physiology courses.* Lectures and demonstrations: Three hours a week.

552-521M. *Medical/Physiology Laboratory program. Emphasis on the physiological background of clinical physiology function testing.*

Students who, on entering medicine, have already taken Physiology 211 or more advanced courses in Physiology, will be required to take course 552-521M but may select two of the graduate courses of the Department in place of course 552-121M.

SECOND YEAR (552-221M)

ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM. Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term. This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

OTHER COURSES

For other undergraduate courses in the Faculties of Arts and Science, see the *Announcement of those Faculties*.

For graduate courses, see the *Announcement of the Faculty of Graduate Studies and Research*.

4.16 PSYCHIATRY

4.16.1 REQUIRED UNDERGRADUATE COURSES

FIRST YEAR. 555-121M. LECTURES AND DEMONSTRATIONS — BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE. I. (Total time — 108 hours). This is an inter-departmental course which is given throughout the first year.

Committees of teachers, many of whom represent clinical departments, introduce the student to the medical role. The course, which has some sixty instructors, teaches by means of the introduction of patients and actual clinical situations using audio/visual aids. In this way it demonstrates many aspects of the life and work of doctors in a wide variety of fields. The didactic material is kept to a minimum.

The course begins with interviewing, then passes on to psychosomatic medicine and ethical considerations. An introductory survey is given of social medicine, utilizing participation techniques, the influence of medicine on society, and vice versa. Subsequently, the psychology of the individual is dealt with at all levels from the animal to the individual patient, families and groups.

Sections then deal with parental loss and reparation, the problems of adoption, subjective aspects of being a patient. The care of sick students and doctors is also discussed. Following this, a section is devoted to chronic disease and death as they affect medical practice.

In the second section, directed by a member of the Department of Paediatrics, the effect of genetics upon behaviour is considered, followed up by behavioural and growth aspects of pre- and perinatal periods. A section on adolescents follows, in which with the help of normal and sick adolescents, their problems are investigated. A section on old age and another on sexuality complete the first year course. Direction of this course is shared with Paediatrics and Obstetrics and Gynaecology.

SECOND YEAR. 555-221M. LECTURES AND DEMONSTRATIONS — BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE. II. (Total time — 18 hours). In the second quarter, Dr. N. R. Eade, Department of Pharmacology and Therapeutics will give a section on drugs and behaviour (6 hours). This will be followed and the course completed by a presentation on psychopathology directed by Dr. H. E. Lehmann. His committee will give a brief series of lectures demonstrating cases of psychiatric illness and an integrated approach to major behavioural disorders. (12 hours).

THIRD YEAR. 555-321M. Nine weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment will be among the aspects covered. Students will be provided with tutors on a group basis and will also have an opportunity to become conversant with certain more specialized areas of the field of psychiatry. An attempt will be made to provide a comprehensive experience of the total field of psychiatry and to provide a patient-oriented, responsibility-centred experience of emotional disorders.

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.16.2 GRADUATE COURSES
Diploma in Psychiatry (Dip. Psychiat.)

See *Announcement of the Faculty of Graduate Studies and Research*.

4.16.2.1 Courses for the Degree of
Master of Science in Psychiatry

See the *Announcement of the Faculty of Graduate Studies and Research*.

4.17 DIAGNOSTIC RADIOLOGY

4.17.1 UNDERGRADUATE COURSES
First Year
(558-121M)

NORMAL ROENTGEN ANATOMY. In co-operation with the Department of Anatomy.

PROFESSOR ETHIER AND STAFF

ROENTGEN DEMONSTRATIONS OF PHYSIOLOGY. In co-operation with the Department of Physiology.

PROFESSOR FRASER AND STAFF

RADIATION EXPOSURES AND HAZARDS. In co-operation with the Department of Genetics.

PROFESSORS ROSENTHALL,
BEIQUE AND STAFF

Second Year
(558-221M)

Teaching in McGill's hospitals on "Biology of Disease" in co-operation with Departments of Pathology, Epidemiology and Microbiology.

Electives in Diagnostic Radiology in McGill teaching hospitals — The Royal Victoria Hospital, The Montreal General Hospital, The Jewish General Hospital, The Montreal Children's Hospital and The Montreal Neurological Institute.

Third Year
(558-321M)

Electives in Diagnostic Radiology are offered in all the Departments of Diagnostic Radiology of McGill teaching hospitals.

Seminars in Diagnostic Radiology are given weekly to Third year students during their "block time" in Medicine and Surgery.

Fourth Year
(558-421M)

Electives are offered in Diagnostic Radiology in all of the teaching hospitals of McGill.

Students during their "clinical clerkship" attend regular conferences with the Department of Diagnostic Radiology and the Clinical Departments of the teaching hospitals of McGill.

MEDICINE

4.17.1.1

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this program are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

4.17.2

GRADUATE COURSES

4.17.2.1 Diploma in Diagnostic Radiology

See Announcement of the Faculty of Graduate Studies and Research.

4.18 THERAPEUTIC RADIOLOGY

4.18.1

UNDERGRADUATE COURSES

FIRST YEAR. (561-121M). Special participation in the teaching of Basic Sciences not intended.

SECOND YEAR. (561-221M). Introduction to Therapeutic Radiology, including the basic principles and applications of Radiation Physics, Radiobiology, and Radiopathology of conditions treated by means of ionizing radiation.

THIRD YEAR. (561-321M). a) Teaching of Clinical Therapeutic Radiology to be integrated with the surgical and medical aspects of Oncology in the management of neoplastic diseases; the details of such to be worked out with the Departments of Internal Medicine and Surgery.

b) Elective: Tutorial periods have been included with the list of electives from which students may select to come in Therapeutic Radiology.

FOURTH YEAR. (561-421M). Continuation of the clinical program initiated in the Third year while attending Internal Medicine and Surgery. Electives in Therapeutic Radiology will be available and could be arranged in either of the two major teaching hospitals.

4.18.2

GRADUATE COURSES

4.18.2.1 Diploma in Therapeutic Radiology

See Announcement of the Faculty of Graduate Studies and Research.

4.19 SURGERY

4.19.1

REQUIRED UNDERGRADUATE COURSES

Second Year (564-221M)

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view. This instruction is part of the Introduction to Clinical Sciences Program.

Third Year (564-321M)

The student comes into a more intimate contact with the patients, and in the surgical term of nine weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

3A. DISCUSSIONS concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.

3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.

3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

Fourth Year (561-421M)

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

4.19.1.1

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

4.19.2 SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. GROUP WARD CLASSES three times a week throughout the trimester. In their Final year students attend either the Shriners' Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

4.19.3

ORTHOPAEDIC SURGERY

FIRST YEAR. Demonstrations. The functional anatomy given in conjunction with the Department of Anatomy.

SECOND YEAR. Principles of physical diagnosis of the musculoskeletal system as taught during the course on physical diagnosis.

THIRD YEAR. The principles of Orthopaedic Surgery are covered during the course on Surgery. An attempt is made to broadly outline the content of adult Orthopaedics, children's Orthopaedics, and fractures.

FOURTH YEAR. Clinical clerkships are given in Orthopaedic surgery and electives are available for those who wish to pursue the subject in depth.

4.19.4

UROLOGY (567-421M)

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

4.19.5

GRADUATE COURSES Diploma in Urology (Dip. Urol.)

See Announcement of the Faculty of Graduate Studies and Research.

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