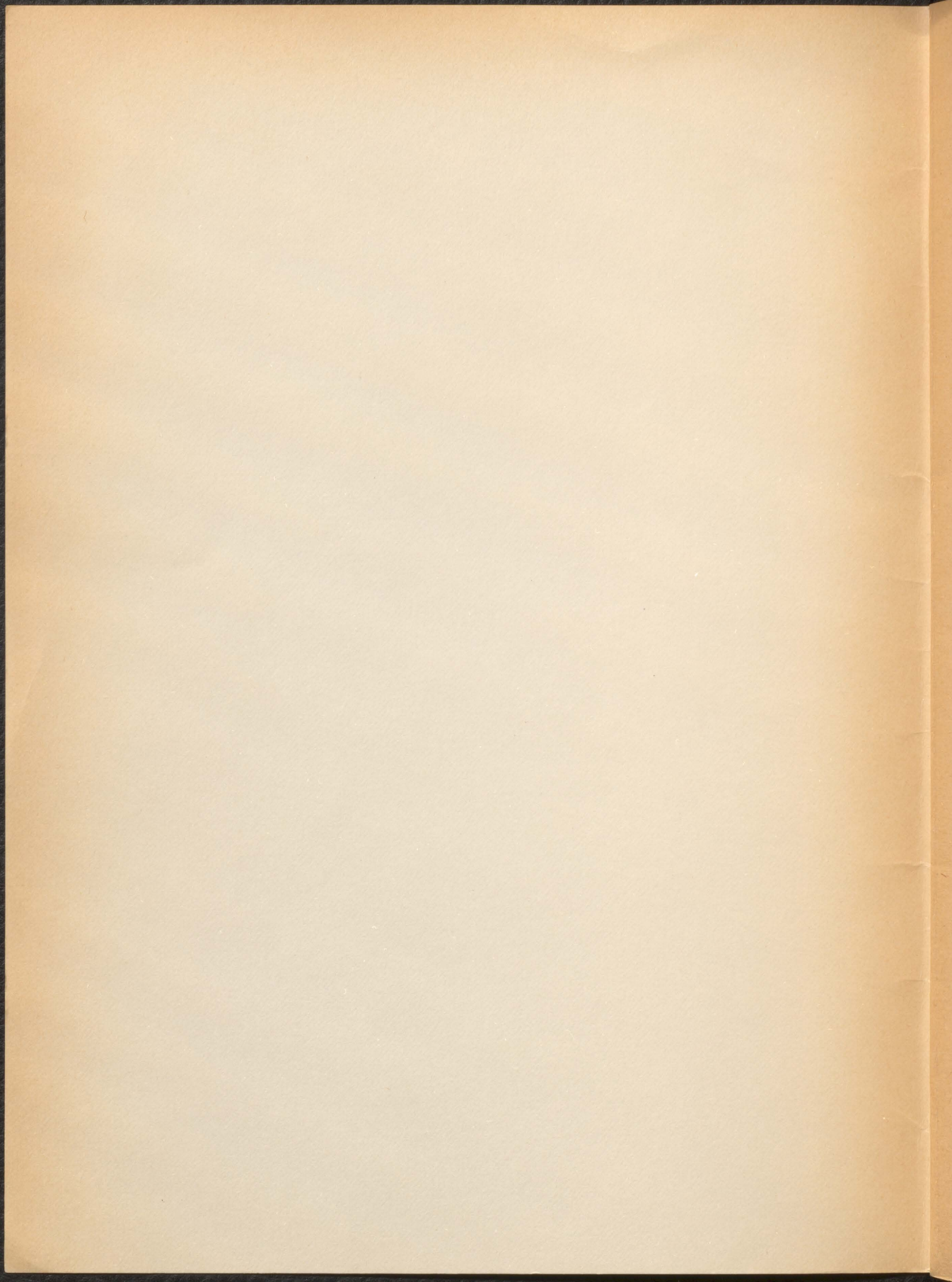


# McGill

1979-80  
FACULTY OF  
MEDICINE

McGill University  
Montreal





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McGill University  
Montreal

3655 Drummond Street  
Montreal, PQ, Canada H3G 1Y6  
Telephone (514) 392-4229

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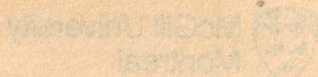
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3605 Drummond Street  
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*Assistant Professors* – G.A. Ahronheim, F. Andermann, R. Barr, H.F. Brickman, H. Brodie, J.S. Charters, L. Chevalier, A. Coates, B. Costom, T.A. Cowan, R. deBelle, C. Dupont, J.H. Elder, Z. Fox, J. Gibbs, F. Glorieux, L. Hechtman, P. Humphreys, M. Hunter, R. Hutcheon, P. Junger, H. Kahne, G. Karpati, M. Klein, M. Kramer, L. Laporte, J.L. Leblanc, C. Lejtenyi, W. MacDonald, K. Metrakos, B. Moroz, J. Neal, G. Nickerson, K. Powell, E. Reece, P. Riley, B. Rosenblatt, D. Rosenblatt, A. Stachewitsch, H. Surchin, G. Tannenbaum, F. Wiener, R. Williams, D. Willis, A. White

*Lecturers* – M. Babineau, J. Belley, A. Bimbik, Kovacs, A. Chan-Yip, M. Cherniak, J. Chiu, C. Clow, E. Delvin, D. Dikranian, P.F. Douyon, A. Feldman, A. Gillan, V. Goldbloom, A. Gordon, C. Grading, H. Grading, C. Grandbois, J. Gul-

yas, S. Guttman, P. Kaplan, M. Kazemi, V. Khe-diguian, J. Kiteala, G. Lancaster, D. Leduc, F. Lehmann, D. Lorenz, K. Lubkiewicz, H. Lupu, A.J. Markus, R.P. Martin, M. Moffat, F. Mohyuddin, P. Neumann, M. Pamukoff, R. Pincott, J.P. Poirier, M. Preus, B. Quesnel, D. Rabin, I. Rabin, H. Rich, M. Rochette, M. Rozenfeld, T. Rousseau, P. Senecal, M.A. Smith, P. Spier, N. Stein, M. Sternbach, Y. Talbot, H. Tennenhouse, C. Wang, M. Westwood, F. Wiseman, W. Woelber, J. Wu, H.O.R. Young, A. Zeliger, R. Zinman

### Pharmacology and Therapeutics

*Chairman* – R. I. Ogilvie

*Professors* – B.G. Benfey, B. Collier, D. Ecobichon, J. Lowenthal, M. Nickerson, J.B. Richardson, J.M. Trifaro

*Associate Professors* – R. Capek, N.R. Eade, B. Esplin, R.E. Rangno, B.I. Sasyniuk, A.M. Tennenhouse, D. Varma

*Assistant Professors* – J. Aranda, E. Kovacs, J. Kreeft, G. Kunos, P.J. McLeod, A. Padjen, B. Robaire, M. Warner, E. Zorychta

*Lecturer* – D.S.R. East

### Physiology

*Chairman* – K. Krnjevic

*Professors* – R.I. Birks, T.M.S. Chang, B.A. Cooper, P. Gold, F.C. MacIntosh, G. Melvill Jones, C. Polosa

*Associate Professors* – H.K. Chang, M.W. Cohen, R. Dykes, M.M. Frojmovic, L. Glass, V. Klissouras, W.S. Lapp, M. Levy, M. Mackey, G. Mandl, P. Noble, J.S. Outerbridge, P. Sekelj, A. Wechsler, R.L. Williams

*Assistant Professors* – A.S. Chawla, J. Henry, P. Kongshavn, N. Lake, J. Mortola, D. Watt, P. Weldon

*Lecturers* – E. Chirito, C. Cole, C. Fisher, G. Tolis

*Associated Members* – R.F.P. Cronin, B. Dubrovsky, L. Engel, S.O. Freedman, H.L. Goldsmith, C.A. Goresky, A. Grassino, D. Horrobin, P.T. Macklem, J.M. McKenzie, L. Renaud, S. Rossignol, K. Ruf, J.F. Seely

### Psychiatry

*Chairman* – M. Dongier

*Professors* – M.K. Birmingham, B.M. Cormier, F. Ervin, H. Kravitz, H.E. Lehmann, E.P. Lester, A.W. MacLeod, A.M. Mann, H.B.M. Murphy, T.L. Sourkes

*Associate Professors* – J.V. Anantharamaiah, F. Azima, P. Beck, H. Davanloo, I.S. Dishar, B.O. Dubrovsky, P.G. Edgell, W.D. Engels, F. Engelsmann, R. Feldman, F. Fenton, B.A. Gibbard, B. Grad, H. Grauer, H.A. Guttman, L.G. Hisey, S. Lal, A. Lee, H.L. Levitan, F.W. Lundell, A.S. Macpherson, P.J. Mahoney, D.J. McClure, H.F. Muller, J. Naiman, J.C. Negrete, R. Pittenger, D. Pivnicki, E.G. Poser, R.H.



Prince, R.A. Ramsay, J.J. Sigal, J.R. Unwin,  
L. Vacafior, G. Weiss, J.C. Wright

*Assistant Professors* – N.R. Aldous, M.M. Amin, L. Annable, K. Arvanitakis, A. Bartova, S. Barza, J. Beaubien, S. Bikadoroff, C. Bos, C. Cahill, C.H. Cahn, G. Chouinard, L. Cumberland, J.F. Davis, E.G. Debbane, S. Dongier-Montagnac, H.A. Evans, A. Ghadirian, G.P. Harnois, L. Hechtman, B.R. Hunt, L. Huapaya, T. Kolivakis, D.C. Levin, E.D. Levinson, G. Low, R.C. Monks, G.F. Morgenstern, P.V. Nair, E. Naltchayan, J. Paris, G. Peterfy, B.M. Robertson, J. Ruiz-Navarro, F.A. Smith, M.L. Solomon, G.C. Taylor, G. Turcot, S. Wilner, N. Wisebord, S.N. Young

*Lecturers* – E.H. Achong, M.P. Adams, J. Alarcia, P. Assalian, C. Barriga, A.O. Barron, P.S. Beliveau, S. Benaroya, C. Benierakis, D.H. Betts, J.P. Bienvenu, M. Bond, E.J. Brahm, R.D. Brown, P.B. Campbell, J. Canfield, A.J. Carre, M. Cerrolaza, P.N. Chiefetz, C. Cohen, H.E. Cohen, M. Cole, H. Cvejic, L. Demers-Desrosiers, J.P. Ellum, D. Frank, H. Freedman, P. Gagnon, C. Gaite, J.P. Gamache, J. Garant, K. Geagea, C. Golden, L. Gomez, P. Gregoire, G. Gregoriou, B. Groulx, L. Guerette, M. Guerin, E. Gutbrodt, A. Hausfather, R. Kachanoff, M. Kapuscinska, R.A. Keller, D.J. Kraus, D.J. Kussin, R. Lake-Richards, R.S. Lakoff, M. Lalinec-Michaud, C. Laroche, G. Larochele, R.G. Lemieux, G.W. MacLean, H.P. Malmo, M.L. Martinez, A.F. Meszaros, J. Meiten, K. Missala, H. Mohelsky, A.K. Muller, D.P. Nowlis, S. Packer, J.C. Pecknold, J.M. Perzow, R. Perreault, B. Presser, R.B. Rastogi, R.M. Richard-Jodoin, O. Rios, P. Roper, A. Ross-Chouinard, A. Roussos, M. Ruiz-Navarro, R.W. Shepherd, A. Sheppard, S.P. Simons, R.M. Smith, N. Sourial, M. Subak, A.A. Surkis, G. Tahta, R. Tirol, C. Villeneuve, J. Voyer, D. Waiser, G. Wiviott, D.J. Wood, R. Yassa, D. Zamanzadeh, G. Zimmerman, P. Zuardi

*Associated Members* – T.A. Ban, S.Z. Dudek, V.A. Kral

## Diagnostic Radiology

*Chairman* – M.J. Palayew

*Associate Professors* – B.B. Hale, R. Ethier, R.O. Hill, D. Melancon, M.B. Nogrady, L. Rosenthal, V. Sayegh, G.B. Skinner, L.A. Stein, F. Winsberg  
*Assistant Professors* – J.M. Dumas, P.J. Fitzgerald, J.H. Gagnon, M. Goldenberg, R.E. Hanson, M.J. Herba, B.B. Hyams, S. Jequier, N.A. Khan, A. Lisbona, R. Lisbona, A.M. O'Gorman, J. Toth, R.E. Wilson

*Lecturers* – V. Adrenyi, A. Arzoumanian, G. Belanger, F. Bourdon-Conachie, J.D. Chan, M. Desaulniers, A.D. French, A. Glay, R.S. Hidvegi, P. Lander, A.H. Latour, M.S. Nathens, M. O'Donovan, D.R. Patton, H. Remy, M. Rosenbloom, R. Satin, S.S. Share, R.L. Slatkoff, G. Whiteman

## Therapeutic Radiology

*Chairman* – J.H. Webster

*Professor* – M. Cohen

*Associate Professors* – J.J. Hazel, J.P.A. Latour, T.N. Roman

*Assistant Professors* – P. Blahey, P. Del Vecchio, J.F. Guerra, T.H. Kim, S.M. Lehnert, E.B. Podgorsak, M. Thirlwell

*Lecturer* – C. Graveline

*Demonstrators* – F. Behmann, M. Pla

## Surgery

*Chairman* – L.D. MacLean

*Professors* – R.L. Cruess, A.R.C. Dobell, L.G. Hampson, J.E. Miller, D.S. Mulder, D.R. Murphy, K.J. MacKinnon, H.J. Scott, A.G. Thompson, H.B. Williams

*Associate Professors* – H.E. Beardmore, N.S. Belliveau, P.E. Blundell, C.E. Brooks, C.J. Chiu, R. Dykes, D.M. Edward, M.A. Entin, R.L. Estrada, R.B. Gledhill, F. Glorieux, R.G.W. Goodall, J. Gordon, F. Guttman, R.D. Guttman, H.S. Himel, E.J. Hinchey, A. Hreno, G.M. Karn, D.T.W. Lin, R.C. Long, N.S. Mitchell, E.D. Monaghan, J.R. Moore, D.D. Morehouse, J.E. Morin, B.M.N. Mount, D.D. Munro, J.M. McIntyre, A.P.H. McLean, P.H. Niloff, W.L. Ogilvy, J.A. Oliver, H.F. Owen, J.D. Palmer, J.G. Petrie, E. Reid, N.M. Sheiner, H.R. Shibata, H. Shizgal, I. Shragovitch, S.C. Skoryna, E.J. Tabah

*Assistant Professors* – C.F.D. Ackman, A. Ahmed, C.M. Allan, H.C. Brown, R.A. Brown, D. Burke, A.M. Cloutier, L.B. Conochie, B. Costello, D. Cunningham, A.M. Daniel, R.K. Daniel, E. Delvin, J.C. Dickison, A.G. Fazekas, W. Fish, J.W. Foote, A. Grace, L. Greenberg, F.A.H. Greenwood, W. Krause, M. Laplante, C.A. Laurin, R.N. Lawson, G.W. Lehman, R.T. Lewis, W.F. Lingard, W.C. Lloyd-Smith, G.G. Mackie, R.G. Margoless, B. Marien, J.L. Meakins, W. Mersereau, G.R. Murphy, A.H. McArdle, D. McClure, J.K. MacFarlane, D.A. MacKenzie, A.R. Poole, H. Rabinovitch, W. Rennie, E. Rogala, M.A. Rosman, D.W. Ruddick, G. Schwarz, I. Shanfield, H.H. Sigman, A. Spanier, H.D. Stevens, J.F. Symes, Y. Taguchi, Y. Tanaka, M.P. Thirlwell, B.L. Thompson, T. Ty, M. Wexler, F.M. Wiegand, C.L. Wilson, J.A.S. Wilson

*Lecturers* – S. Aronson, A.A. Butler, M.S. Chugtai, P. Cohen, R. Crepeau, G.A. Daniel, I.J. de Dominico, P. Dubravcik, A.R. Forse, D.B. Forbes, A. Freedman, P. Gordon, A. Hadjipavlou, N. Halpern, L. Heller, H.F. Helmy, S.A. Jacobson, E. Jomm, M. Kerner, I. Kuzmarov, A. Legare, S.G. MacIsaac, R.A. MacLeod, P. Madore, T. Mears, J. Miller, R.V. Moralejo, T. Nearing, D.R. Owen, D.F. Papich, G.J. Pearl, A.S. Popieraitis, J. Rothschild, T.N. Siller, L. Simon, W. Smith, J.D. Sullivan, C. Sutton, M. Van Der Rest, W. Watson, D. Wiltshire, S.A. Youssef

*Demonstrator* – H.I. Dubow



## 2

GENERAL  
INFORMATION

The one hundred and forty-seventh session of the Faculty will open on September 4, 1979.

Separate Announcements are available for the School of Physical and Occupational Therapy and the School of Nursing.

**2.1 BUILDINGS****McIntyre Medical Sciences Building**

This 15 storey building, completed in 1965, contains the administrative offices of the Faculty of Medicine, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Therapeutics, Physiology, the McIntyre Animal Centre and a number of special research units (e.g. Anesthesia Research, Aviation Medical Research, Biomedical Engineering and the McGill Cancer Centre.)

**Strathcona Anatomy and Dentistry Building**

This building houses the Department of Anatomy, the Faculty of Dentistry and the Protein and Polypeptide Laboratory of the Department of Medicine.

**Pathology Building**

Opened for use in October 1924, the building 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 Epidemiology and Health, Microbiology and Immunology, and Pathology and the Meakins-Christie Laboratory. The building has extensive facilities for teaching, research and diagnosis.

**The Montreal Neurological Hospital and the Montreal Neurological Institute**

The Hospital and Institute are housed in an eight-storey building, situated on University property adjacent to the Pathology Institute and the Royal Victoria Hospital. The Institute was opened on September 27, 1934 and as the cornerstone states is "Dedicated to relief of sickness and pain and to the study of Neurology". The McConnell Wing was opened in 1953, doubling both the clinical and laboratory space. A nine-storey addition, the Penfield Pavilion, was officially opened in September 1978. This provides modern patient areas, operating suite and intensive care unit, together with enlargement of research and teaching areas. Originally the Institute assumed the responsibility for the undergraduate and graduate teaching of neurology, neurosurgery and the neuro-sciences in the Faculty of Medicine at McGill. The teaching and research responsibilities have been divided between the McGill teaching hospitals. In 1963 the Montreal

Neurological Hospital was incorporated as a separate institution. The Hospital and Institute therefore have three areas of responsibility: clinical, research and teaching. 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 related basic science fields.

**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 on 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.

A research and training building was added by McGill University in 1963, providing one of the most extensive and modern research areas.

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

**Donner Building**

The Donner Building for Medical Research, adjacent to the Strathcona Anatomy and Dentistry Building, was completed in September 1948. Through the generosity of William D. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, the necessary funds were provided for the construction of a building entirely devoted to medical research.

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

**Lady Meredith House**

Situated at 1110 Pine Avenue West, this building currently houses the Centre for Medical Education, Continuing Medical Education, the McGill Clinical Scholars' Program and the Montreal Joint Hospital Institute.

**Human Genetics Centre**

The Human Genetics Centre provides a home base for scientists and geneticists working on genetical problems related to human beings, University hospitals and research laboratories throughout the city. Administratively responsible to the Faculties of Science, Graduate Studies and Medicine, its purpose is to coordinate teaching in human genetics, develop teaching and consultative programs in areas where genetics is underrepresented, encourage communication and collaboration between genetics units and promote, wherever possible, the progress of



genetical research and its application to health care. The Central Office is to be in the Stewart Biology Building.

## 2.2 HOSPITALS

### McGill University Teaching Hospitals

There are four McGill University Teaching Hospitals. By agreement and tradition the administration, 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:

Royal Victoria Hospital  
Montreal General Hospital  
Montreal Children's Hospital  
Montreal Neurological Hospital

**The Royal Victoria Hospital** comprises the following units under one administration: 1. Main Pavilion 2. Medical Pavilion 3. Surgical Pavilion 4. Ross Memorial Pavilion 5. Women's Pavilion 6. Allan Memorial Institute

The total bed complement is 873. Admissions total about 24,000 a year and there are more than 360,000 ambulatory visits annually. The resident and intern staff numbers 281.

The Royal Victoria Hospital was granted its Charter in 1887. The Pathology Institute and the Women's Pavilion of the Royal Victoria Hospital were opened in 1926 and the Allan Memorial Institute (Psychiatric Pavilion) became part of the hospital complex in the 1940's.

**The Montreal General Hospital** has a bed complement of 855 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 250,000 consultations in the Emergency and Outpatient Departments. The Resident and Intern staff numbers 275. "The Montreal General" was founded in 1821 and its record in clinical teaching is one of the longest in North America. Students were first received in 1823, in what was the first medical school in Canada. This school agreed to form the Faculty of Medicine in 1829.

The present Hospital was opened in 1955. In addition, a five-storey Research Building was opened on Hospital grounds in late 1973.

**The Montreal Children's Hospital**, located on Tupper Street near the Atwater Metro Station, has 275 beds and, in a typical year, admits 12,000 patients. The Ambulatory Services have approximately 208,000 visits, 88,000 in Emergency and 120,000 in the clinics. The hospital admits newborn infants, children and adolescents with all kinds of medical and surgical problems.

The 58 bed Alexandra Pavilion (formerly the Alexandra Hospital) is now part of The Montreal

Children's Hospital and is a centre for diagnostic assessment and treatment programs for retarded children and other programs in developmental medicine.

An active teaching program is maintained for the medical students and for the 125 interns and residents. There are also teaching programs for nursing students and other health professionals. 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.

### 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  
Montreal Chest Hospital Centre

**The Douglas Hospital** was opened in 1890 as a centre for the specialized care of mental illness of short and long term duration. There are facilities for children, adolescents, adults and elderly patients. Services are offered as part of an integrated network of psychiatric services, in cooperation with various departments of psychiatry of general hospitals. There is a comprehensive community psychiatric program offered to residents of Ville Emard, Ville LaSalle, Verdun and Pointe St. Charles. There are approximately 1500 admissions per year to the 1050 beds of the hospital; visits in the various out-patient clinics number more than 25,000 per year.

The hospital provides clinical instruction and training for residents in psychiatry and in pediatrics, as well as medical students and students of various paramedical disciplines. Experience can also be obtained in research through the activities of the Research Department of the hospital.

**The Montreal Chest Hospital Centre** is a McGill teaching, training and research specialty hospital for all diseases of the chest, excluding the heart and great vessels. It operates on an out-patient and in-patient basis including a large general chest and tuberculosis clinic. The hospital contains 124 beds and its facilities include operating rooms, general, special and research laboratories, fully equipped pulmonary function laboratories, physiotherapy and all para-medical allied services.

The hospital provides some specialized programs and services which include a home care program, adult cystic fibrosis clinic, anti-smoking program, out-patient rehabilitation program for respiratory insufficiency, Centre for phage typing and identification of atypical mycobacteria for the Province of Québec, Revised Comprehensive Tuberculosis Program



## FACULTY OF MEDICINE

and special emphasis on the present challenge of lung cancer. It maintains an active research program and is fully approved by the Royal College of Physicians and Surgeons of Canada for residency training programs in both medicine and surgery. Residency rotating appointments number approximately 30 annually.

### Hospitals 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:

**The Jewish General Hospital** is an acute care institution of 654 beds to which 18,000 patients are admitted in a typical year. During this same period it provides 276,464 consultations in its emergency and outpatient departments. In addition to extensive research activities which are housed in modern new buildings, the hospital supports a large geographic full-time staff to carry out its teaching responsibilities to 119 interns and residents as well as undergraduate students.

Founded in 1934, the hospital grew from 150 beds to its present size in a series of expansion programs which also saw the establishment of tertiary care programs in neurosciences and cardio-vascular surgery. The Lady Davis Institute for Medical Research and the Institute of Community and Family Psychiatry were established in 1968.

**The Queen Elizabeth Hospital** of Montreal is a 272 bed acute general hospital located in the western section of Montreal in the community of Notre Dame de Grace with specialty resources organized in the following departments: Medicine, Surgery, Gynecology, Pathology, Anesthesia and Psychiatry. The Emergency and Out-Patient Department is a very active area serving approximately 100,000 patients per year.

**St. Mary's Hospital Centre** is a specialized acute care general hospital with 414 adult beds and 65 bassinets, affiliated with McGill University, Faculty of Medicine.

Among other services, St. Mary's is recognized as a high risk obstetrical centre and has a progressive Family Medicine Centre providing training programs for residents and nurses.

The Hospital is fully accredited by the Canadian Council on Hospital Accreditation and Canadian Dental Association, and is approved for intern and residency training by the Professional Corporation of Physicians of Québec and the Royal College of Physicians and Surgeons of Canada.

In 1977/78 there were 15,422 admissions including newborn and 135,389 visits to Emergency and out-patient clinics.

**Lakeshore General Hospital**  
**Reddy Memorial Hospital**  
**Shriner's Hospital For Crippled Children**

## 2.3 LIBRARIES

### Medical Library

*Life Sciences Area Librarian* – FRANCES K. GROEN

*Assistant Area Librarian* – DAVID S. CRAWFORD.

The Medical Library is located on the second, third and fourth floors of the McIntyre Medical Sciences Building; the entrance is on the third floor.

The staff of the Public Services Department is available to assist users in locating necessary information through the card catalogue and the numerous abstracting and indexing services to which the library subscribes. The Library offers a full range of data bases searchable by computer. Chief amongst these is the U.S. National Library of Medicine's medline and its associated data bases. Other relevant data bases provided by the Canada Institute of Scientific and Technical Information, and the Lockheed and Systems Development Corporation are also accessible on-line. These include BIOSIS, psychological abstracts-on-line, and ERIC.

One of the strengths of the Library is its journal collection. Of the more than 150,000 items held, over 100,000 are bound journal volumes and over 2,200 titles are currently received. The book collection is particularly outstanding in the area of ophthalmology, due in large measure to gifts from the late Dr. Casey A. Wood. Another strong feature of the collections is the German periodicals with full sets of many important German language publications. Library collections are developed in all fields of clinical medicine and research. Social aspects of medicine are also covered in the Library's buying program.

A Learning Resources Centre is housed on the second floor of the Medical Library. This Centre provides terminals for use in computer assisted instruction as well as video cassettes and slide-tape shows. Audio-visual materials in various formats are regularly purchased for this growing collection.

The Library is open to all who need to use its collections. Borrowing privileges are given to McGill faculty, staff and graduate students, all students in the Faculties of Medicine and Dentistry and to undergraduates whose coursework requires its use. An extensive interlibrary loan service is provided to all affiliated and partially affiliated teaching hospitals. Borrowing privileges are also extended to members of the health professions in the community.

The Library is open from mid-September to mid-June from 8:30 a.m. to midnight Monday to Thursday, from 8:30 a.m. to 10:00 p.m. on Friday, from 10:00 a.m. to 6:00 p.m. on Saturday and 1:00 p.m.



to 5:00 p.m. on Sunday. During the summer months and at Christmas, the hours are restricted but notification of these changes is posted well in advance.

### 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 contains the Osler Library, devoted to the history of medicine. 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, the Osler Room beyond the Camera, the W.W. Francis Wing and the H. Rocke Robertson Rare Book Room.

The collection, consisting of about 30,000 volumes in the history of medicine and its sciences and a large quantity of manuscripts, 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, when a generous grant from the Wellcome Trust made active growth of the Library possible. The Library is constantly adding to the collection, especially current work in the history of medicine.

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

## 2.4 MEDICAL SOCIETIES

### McGill Medical Students' Society

The Society is an association of all registered medical students. Acting through its elected council and various Faculty committees, the Society performs a number of functions:

- 1) To represent medical students' ideas, concerns and problems to the Faculty of Medicine, the government, and the public at large.
- 2) To promote interaction among medical students through both the Québec and Canadian Federations of Medical Students' Societies.
- 3) To attempt to advance new forms of learning to meet with the desires of the students.
- 4) To collaborate with the Students' Societies of Nursing, Physical & Occupational Therapy and Dentistry in running the "Annex", the social centre.

5) To regulate all student sporting and social events within the Faculty.

6) To publish the McGill Medical Journal.

7) To generally attempt to provide the resources and personnel to meet student needs and wishes as they arise.

The M.S.S. has members on many faculty committees, including the Curriculum Committee and the Admissions Committee. Details of all the activities are easily available from the M.S.S. Office and it is hoped that all students will participate in the Society's activities.

L'Association des Etudiants en Médecine est une association de tous les étudiants inscrits en médecine. Représentée par son conseil élu et par les divers comités de la faculté, L'Association accomplit les fonctions suivantes:

- 1) représente les idées des étudiants, leurs soucis et leurs problèmes à la faculté de médecine, au gouvernement et au public en général,
- 2) facilite la communication des étudiants en médecine par le biais des Fédérations des Associations des étudiants en médecine du Québec et du Canada,
- 3) essaye de développer de nouveaux cours qui rencontreront les désirs des étudiants,
- 4) collaborer avec les Associations des étudiants en nursing, en physiothérapie et ergothérapie, et en art dentaire dans la direction de "l'Annexe", notre centre social,
- 5) s'occupe de régler toutes les réunions sportives ou sociales des étudiants en médecine,
- 6) publie le journal médical de McGill
- 7) de façon générale, essaye de fournir toutes les ressources et le personnel afin de reconstruire les besoins et les désirs des étudiants qui se font ressentir.

L'Association des étudiants en médecine compte des membres sur plusieurs comités de la faculté y compris le "Curriculum Committee" et le "Admissions Committee". Les détails de toutes nos activités peuvent facilement être obtenus du bureau de l'association et nous souhaitons ardemment que tous les étudiants participent à nos activités.

### Osler Society

The Osler Society, named for McGill Medicine's most illustrious graduate, is a gathering of students interested in the history, literature and cultural anthropology of medicine. Sir William himself demonstrated that such an interest, evidenced by the book collection he donated to McGill's Osler Library, is compatible with the highest degree of clinical skill.

The Society's principal activity is an irregularly scheduled series of presentations by students on topics in the medical humanities. Wine, cheese and conversation follow. In the Spring, a lecture by a distinguished guest precedes the annual Osler



Banquet, an occasion marked by traditional ceremonies. There is no formal membership; interested persons may attend the functions.

### 3 SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS AND LOAN FUNDS

For details of scholarships, bursaries and loan funds open to students in all faculties, see the *Undergraduate Scholarships and Awards Announcement*.

Within the Faculty of Medicine, students who demonstrate outstanding performance are recognized through the awarding of prizes and medals. Any prizes and medals awarded to students are noted on their transcripts and become a permanent part of the record, as are University Scholarships which are also awarded for outstanding scholastic achievement.

In view of the high level of academic performance already demonstrated and achieved by students entering the Faculty of Medicine, all other awards available in the Faculty at the undergraduate level, including the scholarships and bursaries listed below, are generally awarded by the Faculty on the basis of good standing and financial need. Students requiring financial aid should obtain information and complete the financial aid forms available from the Student Aid Office, 3637 Peel Street, Montreal.

#### 3.1 SCHOLARSHIPS AND BURSARIES

**DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.** – A fund of \$10,000, established in 1938 by an anonymous donation, in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P.(C), LL.D.(McGill), to commemorate her distinguished work in connection with the history of Canadian medicine, the Sir William Osler Pathological Collection and her outstanding research in congenital cardiac disease.

The revenue of this fund provides scholarships awarded by the University to undergraduates of either sex in the Faculty of Medicine, but women are given preference. Awards vary according to the needs of the winners. Further information may be obtained from the Dean's Office, Faculty of Medicine.

**J.H.B. ALLAN SCHOLARSHIP.** – Available to undergraduate students in any year.

**SIR EDWARD W. BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS.** – A fund of \$100,000 was bequeathed by the late Dr. Henry Albert Beatty, the income from which provides scholarships open to undergraduate and graduate students in the Faculty of Medicine at McGill. For students who hold or are working towards the McGill M.D., C.M. the award may be held at any approved institution in Canada or abroad. For other qualified students the award must be held at McGill. The holder is expected to devote the year of tenure either to research or to some form of special training excluding the normal training towards the M.D., C.M. and excluding any of the years of residency training required in the Diploma courses.

**BELLAM MEMORIAL BURSARIES.** – A bequest of \$20,000 from the estate of the late C.F. Bellam. Awarded on the basis of financial need. Candidates must be from Stanstead County, Québec.

**DR. BEN BENJAMIN MEMORIAL BURSARY.** – Established by his sisters in memory of the late Ben Benjamin, B.A., M.D., C.M., lecturer in the Department of Pediatrics. Awarded on high academic standing and financial need.

**JOSEPH ISRAEL BENNETT BURSARY.** – A bequest by the late Joseph Israel Bennett, the interest on which is to provide a bursary to be awarded annually to a deserving student.

**MAX BINZ SCHOLARSHIP.** – From the bequest of the late Max Binz, \$1,000 is set aside annually for scholarships in the Faculty of Medicine.

**ELFRIC DREW BROWN BURSARY.** – Established in 1973 by a bequest from the late Elfric D. Brown, M.D., C.M. The annual income is to provide bursaries to help deserving students in the Faculty of Medicine.

**BEVERLEY COONER BURSARY.** – Established by the family and friends of the late Beverley Cooner to assist a deserving student. Awarded with the approval of the National Council of Jewish Women on the basis of financial need and academic standing.

**JAMES H. CUMMINGS SCHOLARSHIPS.** – Two or more entrance scholarships in the Faculty of Medicine bequeathed by the late James H. Cummings. Awarded at the discretion of the Faculty of Medicine.

**ANNIE DIAMOND BURSARIES.** – Established in 1969 for medical students with financial need. The awards will vary according to the needs of the recipients.

**JAMES ECCLES SCHOLARSHIP.** – Established in memory of Mr. James Eccles, a member of the Board of Governors. \$500 to be awarded on the



basis of high academic standing to a student entering the final year of the undergraduate medical curriculum. Awarded by the University Scholarships Committee upon the recommendation of the Faculty of Medicine Scholarships Committee.

**SAMUEL EIDLOW MEMORIAL BURSARY FUND.**

– Established for worthy medical undergraduate students with financial need.

**CHANCELLOR FERRIER MEMORIAL BURSARY.**

– Established by Mrs. Herbert V. Lacey in memory of her great-grandfather, Senator James Ferrier, Chancellor of McGill from 1884 to 1889. Awarded on the basis of academic standing and financial need, with preference to students from the state of Wyoming.

**DR. E.M. FISHER MEMORIAL SCHOLARSHIP.**

Available to undergraduate students in any year.

**SIMON AND ROSALIE HALPERN MEMORIAL SCHOLARSHIP.**

– Value \$400. established by the late Dr. Fanny G. Halpern in memory of her parents. Open to students of Roman Catholic or Jewish faith, on the basis of distinguished academic standing and financial need. The holder in any one session may re-apply for the following year.

**WALTER J. HOARE MEMORIAL SCHOLARSHIP.**

– Endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in World War I. Open to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to a nominee of the Faculty of Medicine.

**KEITH HUTCHISON MEMORIAL SCHOLARSHIPS.**

– Two or more scholarships, in memory of the late Dr. Keith Hutchison, established in the Faculty of Medicine. Tenable in any year of the course and awarded on the basis of distinguished academic standing and financial need. The holder in any one session may re-apply for the following year.

**IVES SCHOLARSHIP.** – Established in 1967 by a bequest of the late David Fraser Murray, M.D., C.M., 1924. Awarded on the basis of financial need with preference given to students from Nova Scotia, New Brunswick or Prince Edward Island.

**CAMPBELL KEENAN MEMORIAL SCHOLARSHIP.**

– Established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Tenable in the second, third, or fourth year of the course in Medicine and awarded on the basis of distinguished academic standing and financial need to an applicant who intends eventually to enter surgical practice. The holder in any

one session may re-apply for a subsequent session.

**JAMES GRAHAME KER AND FREDERICK K. PETRIE MEMORIAL SCHOLARSHIP.**

– Awarded to a student from Eastern Ontario (Counties of Dundas, Stormont, Glengarry, Grenville, Carleton, Russell and Prescott) or from Montreal on the basis of distinguished academic standing and financial need. Tenable in the second year of the course in Medicine; however, the Faculty of Medicine may award this scholarship to the same student during the third and fourth years.

**KINCH MEMORIAL BURSARY.** – Established by Miss Dia Joyce in memory of Mr. and Mrs. C.H. Kinch to assist medical undergraduate students.

**JAMES O. MEADOWS AND MARIA MEADOWS AWARDS.**

– A bequest of \$200,000 from the late Dame Maria Cowan Meadows to establish awards for undergraduates or graduates in the Faculty of Medicine for the purpose of supporting research. Preference will be given to candidates working in the field of Cancer Research, but worthy candidates working in other areas of medical or surgical research will also be considered. Apply to the Dean of the Faculty of Medicine.

**MERCK, SHARP & DOHME OF CANADA LIMITED AWARD.**

– An award established by Merck, Sharp & Dohme of Canada Limited for undergraduates in the Faculty of Medicine for the purpose of supporting research in the field of therapeutics.

**SAMUEL ROSENFELD BURSARY.**

– Established by Mrs. Ida Rosenfeld Letovsky in memory of her late husband, Mr. Samuel Rosenfeld, for worthy medical undergraduate students with financial need.

**REUBEN ROSS MEMORIAL AWARD.**

– A bequest from the late Reuben Ross, the annual income to provide an annual award available to students in the Faculty of Medicine on the basis of financial need.

**SOLOMON DAVID SACKS BURSARY.**

– Established in 1973 by Mr. and Mrs. Issie Sacks in memory of their son, to assist a deserving medical student. Awarded on the basis of financial need.

**ROSE SCHWARZ – HELEN MARCUS BURSARY.**

– Established by the family and friends of the late Rose Schwarz and the late Helen Marcus to assist a needy and deserving student who intends to devote summer employment to Cancer Research. Awarded with the approval of the National Council of Jewish Women.



## FACULTY OF MEDICINE

**ROBERT SHARWOOD MEMORIAL SCHOLARSHIP.** – Tenable in any year of the undergraduate course in Medicine and awarded on the basis of distinguished academic standing and financial need. The holder in any one session may re-apply for the following year.

**THE ALLAN JAY SOLOMON AWARD.** – A fund of \$2,000 established in 1977 by his family and friends, in memory of the late Allan Jay Solomon, M.D., C.M. The revenue from this fund is to provide an annual award which will be tenable in any year of the undergraduate course in Medicine and will be awarded on the basis of distinguished academic standing and financial need.

**BRUCE SMITH BURSARY FUND.** – A bequest by the late Dr. Bruce Stewart Smith to assist poor but worthy medical students to complete medical training at McGill University.

**FREDERICK SMITH MEMORIAL SCHOLARSHIP.** – Established in memory of Dr. Frederick Smith, Dean of the Faculty of Medicine from 1947-49. \$250 to be awarded on the basis of high academic standing to a student entering the second year of the undergraduate medical curriculum. Awarded by the University Scholarships Committee upon the recommendation of the Faculty of Medicine Scholarships Committee.

**DR. MILTON C. AND NINA E. WILSON AWARD.** – Established in 1970 by a bequest from the late Dr. Milton C. Wilson, the annual income to be available for the support of undergraduate or postgraduate students in the Faculty of Medicine who are in need of financial assistance.

**DR. JOSEPH TANZMAN AWARD.** – A Bequest in honour of Dr. Joseph Tanzman, M.D., C.M. 1927, for the establishment of an award in his name. The award is to be made to a medical student in any given year from the Province of New Brunswick as a preference. If in any year no such candidate is available, the award may be made to any deserving student in the Faculty of Science. This award will be made by the Scholarships Committee of the Faculty of Medicine or the Faculty of Science as the case may be.

**UNIVERSITY SCHOLARSHIPS.** – See the *General Announcement*.

### 3.2 PRIZES

**MR. AND MRS. J.A. BESNER PRIZE.** – Approximately \$250, awarded to the student obtaining the highest aggregate standing in Phase II of the medical undergraduate course.

**H.S. BIRKETT MEMORIAL PRIZE IN OTOLARYNGOLOGY.** – \$200, established by Miss Winifred Birkett in memory of her father, the late Dr. H.S. Birkett, former Professor of Otolaryngology, for a student who has shown outstanding performance in Otolaryngology. In addition, a specially bound volume containing an address by Dr. Birkett on the history of medicine in the Province of Québec and a photograph and brief biographical sketch of Dr. Birkett will be presented to the winner.

**JAMES Q. BLISS ANNUAL BOOK AWARD.** – Awarded to the student who obtains the highest standing in Physiology in the First Year Medical Class.

**JOSEPH MORLEY DRAKE PRIZE.** – (Founded by the late Joseph Morley Drake, M.D.) – A prize of \$150 awarded to the student considered to be the most outstanding in Pathology.

**ROBERT FORSYTH PRIZE.** – \$125, bequeathed by the late Miss Jeanie Forsyth, awarded each year to a student who, upon graduation, has shown particular ability in all branches of Surgery.

**CHARLES E. FROSST MEDICAL PRIZE AND BRONZE MEDAL.** – An annual prize valued at \$500 to be awarded to a medical student who has shown the most promise in the field of Pharmacology. A bronze medal will also be presented to the winner.

**HARRY S. GROSS MEMORIAL PRIZE.** – \$75, bequeathed by the late Mrs. Esther B. Gross in memory of her late husband, Harry S. Gross, D.D.S. 1913, M.D., C.M. 1921. Awarded to the student with the highest standing in Surgery in Phase II of the medical course.

**JOSEPH HILS PRIZE.** – (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.) A prize of \$100 awarded to the student who obtains the highest standing in Pharmacology in Phase IB.

**CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.** – \$50, founded by Mrs. Campbell Howard, in memory of the late Dr. Campbell P. Howard, Professor of Medicine at McGill. Awarded to the student who has shown the most consistent excellence in his written case reports in Phase II Clinical Medicine.

**F. SLATER JACKSON PRIZE.** – Value \$100, founded by Mr. and Mrs. H.F. Jackson in memory of their son, the late F. Slater Jackson, M.D. Awarded to the student with the highest standing in Histology.

**CAMPBELL KEENAN MEMORIAL PRIZE IN CLINICAL SURGERY.** – \$100, established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Awarded to the student in the



graduating class who has shown the highest proficiency in Clinical Surgery. The winner of the Robert Forsyth Prize in Surgery is ineligible.

**CHESTER MACNAGHTEN PRIZES.** – An essay prize open to students in all faculties. For further information contact the Scholarships Office in the Registrar's Office.

**MONTREAL CHILDREN'S HOSPITAL CUSHING MEMORIAL PRIZE.** – \$100 awarded to the student with the highest standing in Pediatrics.

**PSYCHIATRY PRIZE.** – Value \$100, awarded to the medical student who, in the opinion of the Department of Psychiatry, shows the greatest promise in Psychiatry.

**SAMUEL ROSENFELD PRIZE.** – \$75, awarded to the student with the highest standing in Medical Microbiology of the medical course.

**MONA BRONFMAN SHECKMAN PRIZE.** – \$200, awarded for the highest academic standing in Psychiatry.

**ALEXANDER D. STEWART PRIZE.** – \$200, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise the profession.

**J. FRANCIS WILLIAMS PRIZE IN MEDICINE AND CLINICAL MEDICINE.** – \$500, founded by the late J. Francis Williams, M.D., awarded to the student obtaining the highest standing in Medicine in Phase III of the medical curriculum.

### 3.3 MEDALS

**WALTER CHIPMAN GOLD MEDAL.** – Founded by the late Max Streen in honour of Dr. W.W. Chipman. Awarded to the student whose performance in Obstetrics and Gynecology throughout the medical curriculum is considered to be outstanding.

**HOLMES GOLD MEDAL.** – Founded by the Medical Faculty in 1865, in memory of the late Andrew Holmes, M.D., LL.D., sometime Dean of the Faculty. Awarded to the student graduating with the highest aggregate standing in the entire medical curriculum.

**SUTHERLAND GOLD MEDAL.** – Founded in 1878 by the late Mrs. Sutherland in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty. Awarded to the student obtaining the highest aggregate standing in Phase I of the medical undergraduate curriculum.

**WOOD GOLD MEDAL.** – Endowed by Casey A. Wood, M.D., LL.D. in memory of his grandfather, Thomas Smith Wood. Awarded to a student for the most outstanding clinical performance in Phase III. The winner of the Holmes Medal is not eligible.

### 3.4 LOAN FUNDS

**MAUDE ABBOTT MEMORIAL LOAN FUND.** – Established by the Federation of Medical Women of Canada and available to any woman medical student, first year intern or graduate student. Apply to the Secretariat, Federation of Medical Women of Canada, Box 8244, Ottawa, Ontario K1G 3H7.

**BORIGHT LOAN FUND.** – Established in 1963 by a bequest from the late George H. Boright for loans to deserving medical students.\*

**BOSWELL JAMES LOAN FUND.** – Established in 1943 by Dr. A. Boswell James and available to undergraduates and graduates.\*

**DAVID M. CALDWELL STUDENT LOAN FUND.** – Established in 1973 by a bequest from the late David M. Caldwell M.D. 1919, to assist students in the Faculty of Medicine, with preference given to American students.\*

**ALEC AND SYLVIA DOLLIN LOAN FUND.** – Established in 1965 by Mr. Alec Dollin for loans for medical students.\*

**KELLOGG LOAN FUND.** – Given by the Kellogg Foundation to provide loans up to a maximum of tuition fees in any year to students in good standing who require such assistance. The regulations and application forms are the same as for other loan funds controlled by the University.\*

**LACEY LOAN FUND.** – Established in 1962 by a donation from Mrs. Herbert Van Devanter Lacey, Cheyenne, Wyoming, primarily for aid to medical students from the state of Wyoming but may be extended to others in accordance with the following priorities: Medical students from the state of Wyoming; Dental students from the state of Wyoming; Medical students from other states of the U.S.A.; Medical students from other countries. Loans not to exceed \$700 each per year.\*

**GERTRUDE MUDGE MEMORIAL STUDENT AID FUND.** – Established in 1958 by donations from students, graduates, and staff in memory of the late Gertrude Mudge, for many years Assistant Secretary of the Faculty of Medicine. Loans shall not exceed the tuition fees for the year.\*

**WESTON FAY VOLBERG JR. MEMORIAL LOAN FUND.** – Established in 1956 by classmates of the late Weston Fay Volberg, Jr., M.D., C.M. 1953, and available to medical students.\*

\*Apply to Student Aid Office.



## MCGILL FACULTY OF MEDICINE CURRICULUM

	Sept	Nov	Jan	March	May	July	
Year I 39 Weeks 1338 Hours	ANATOMY (185)						VACATION
	HISTORY OF MED.-(21)	PHYSIOLOGY (136)			C.N.S. (91)		
		BIOCHEMISTRY (136)			ENDOCR. (25)		
	HISTOLOGY (160)				GENETICS (20)		
	BEHAVIOUR (78)						
	EMERGENCY (19)			EPIDEMIOLOGY (64)			
	OPTIONS (108)			REPRODUCTIVE MEDICINE (20)			
	FREE TIME (295)						
Year II 40 Weeks 1400 Hours	PATHOLOGY (156)						VACATION
	GROWTH (36)						
	MICROBIOLOGY (72)						
	PHARMACOLOGY (48)						
	EPIDEMIOLOGY (24)						
	INTRO. CLIN. SCS. (56)						
	FREE TIME (72)						
			INTRO. CLIN. SCS (70)	MEDICINE (336)	OBS/GYN (224)	ELECTIVE (112)	
BIOLOGY OF DISEASE (322)							
							PHASE I 51 Weeks (1758 hrs)
							PHASE II 42 Weeks (1470 hrs)



Year II  
40 Weeks  
1400 Hours

BIOLOGY OF DISEASE (322)

Year III  
38 Weeks  
1450 Hours

SURGERY (224)	ELECTIVE (112)
BIOLOGY OF DISEASE (cont'd)	

PSYCHIATRY  
CLERK  
(320)

PEDIATRIC  
CLERK  
(320)

MEDICINE  
CLERK  
(320)

VACATION

PHASE III  
68 Weeks (2660 hrs)

Year IV  
44 Weeks  
1700 Hours

SURGERY CLERK (320)	ELECTIVE (320)	CLERK OPTION (320)	BASIC SCIENCE OPTIONS (420)	ELECTIVE (320)
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\* Hours calculated on basis of 35 hours/week in PHASES I & II and in Basic Science options of Phase III; 40 hours/week in PHASE III clerkships and electives. Hours and weeks do not include vacations and holidays.

(revised Sept. 1/78)



## 4 CURRICULA, COURSES OF STUDY AND PROGRAMS

### 4.1 PROGRAMS IN MEDICINE

#### Application for Admission

Admissions Telephone Number: (514) 392-4232

Application for admission to the Faculty of Medicine must be made on the special application forms available only from the Office of the Associate Dean (Admissions), Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. Applications for the first-year class of September 1980 will be available sometime during August 1979.

All applicants to the Four Year, Five Year and Advanced Standing Programs will be asked to complete a full application. The deadline for receipt of this application from Québec residents is March 1, 1980. Applicants from outside the Province of Québec are requested to return completed application material no later than January 15, 1980. The application must be accompanied by a non-refundable fee of fifteen dollars (\$15.00 in Canadian funds) in the form of a cheque or money order payable to McGill University. Applicants currently registered at McGill University are not required to pay the \$15.00 fee. **ONLY OFFICIAL TRANSCRIPTS WILL BE ACCEPTED BY THIS OFFICE.**

Although the great majority of the entering class is below the age of 27, older applicants will be considered.

There is a total of 160 students in the first-year class.

Accepted students for the 1978 entering class had the following credentials: mean G.P.A. (Based on a 4 point scale) 3.60; mean M.C.A.T. scores, Biology 9.337, Chemistry 9.705, Physics 9.663, Science Problems 9.705, Skills Analysis Quantitative 9.689, Skills Analysis Reading 9.179.

### REQUIREMENTS FOR ENTRANCE

#### Four-Year Program in Medicine

Applicants must be proceeding toward the satisfactory completion of a course of study leading to the Bachelors Degree at a recognized college or university. All successful candidates must be in receipt of the Bachelor's Degree prior to registration in the first-year of the medical curriculum.

This Faculty does not admit part-time students.

#### Scientific Requirements:

Chemistry (General), one full course with laboratory work.

Chemistry (Organic), one full course with laboratory work.

Physics, one full course with laboratory work.

Biology, one full course including studies of biology at the cell and molecular level.

In addition, Physiology (human and/or mammalian), one full course with laboratory work is recommended.

**Cultural Requirements:** In addition to the scientific requirements, applicants are encouraged to have an adequate preparation in English literature, composition and mathematics.

In selecting courses, in addition to the specific requirements listed above, intending medical students should plan their premedical program as a whole and in accordance with a definite educational objective. Emphasis should be placed on the broad educational value and the intellectual training afforded, rather than on the factual content of such premedical curricula. Students are therefore advised to select a major field which appeals to them; this major field may be selected from the natural or social sciences, or the humanities. Certain subjects, though not essential, have been found valuable in medical study and may be included as electives if the curriculum in the major field permits: psychology, sociology, genetics, anthropology, mathematics, languages.

**Admission Test Requirements:** All applicants are required to take the New Medical College Admission Test. For those applying to the four-year program the test must be taken prior to January 15, 1980. This test is conducted by the American College Testing Program (P.O. Box 414, Iowa City, Iowa 52240) at various centres in the spring and fall of each year. **CANDIDATES FOR THE FALL 1980 ENTERING CLASS MUST PRESENT SCORES FROM THE NEW MEDICAL COLLEGE ADMISSION TEST.** The 1979 MCAT fall test date is September 15, 1979. The fall postmark registration deadlines are August 20, 1979 for those candidates testing in the United States, Canada, and Puerto Rico; and August 13, 1979 for those testing in foreign countries. Registration materials will be available at our offices about February 1, 1979. Candidates are warned not to mail too close to the postmark deadline since past experience has shown that packets are sometimes postmarked a day or two after they have been put in a mail box. **NO LATE APPLICATIONS WILL BE ACCEPTED.**

It should be noted that the New MCAT includes tests to measure:

1. Science Knowledge (Biology, Chemistry and Physics)
2. Science Problems (Biology, Chemistry and Physics)
3. Skills Analysis (Reading)
4. Skills Analysis (Quantitative)

It is realized that English is not the first language of many applicants to this Faculty and this fact will



be taken into account in assessing the results of this test.

### Five-Year Program in Medicine

Canadian citizens and landed immigrants resident in the Province of Québec, completing the two-year program in the Québec Colleges of General and Professional Education (CEGEP), are eligible to apply for the five-year program. CEGEP students would fulfill our requirements by completing Science Profile 10.11 consisting of: Mathematics 103, 203; Physics 101, 201, 301; Biology 301, 401; Chemistry 101, 201, 202. We also recommend Chemistry 302. Any students not having a full year course in Organic Chemistry will be required to complete this during their Med-P year. Persons having attended other technical schools or university programs before attending CEGEP are not eligible to apply for the five-year program, nor are persons attending any collegial or premedical program that is not a Québec CEGEP. Students who have completed their CEGEP studies and have registered for first year university must complete the requirements for the four-year medical program. Students in the five-year program will be registered in the Faculty of Science for the first year (Med-P year). Such applicants will complete the scientific entrance requirements for the four-year medical curriculum during the Med-P year. Providing that a satisfactory academic standing has been maintained, the student proceeds into the four-year medical curriculum.

**Application Procedures for the Five-Year Program:** Application for admission to the five year medical program must be made on the application forms available only from the Office of the Associate Dean (Admissions), Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. Applications for the five-year program for September 1980 will be available during August 1979. **ONLY OFFICIAL TRANSCRIPTS WILL BE ACCEPTED BY THIS OFFICE.**

**Admission Test Requirements:** Applicants to the five-year medical program must write the New Medical College Admission Test in the spring of their second collegial year. The 1980 test dates have not been finalized (this test is not usually given before April each year), but applicants must contact this office no later than February 1, 1980 concerning applications for this test. A complete description of the test is contained in the New MCAT Student Manual available from AAMC. The manual presents: (1) areas in science and specific skills to be assessed by the examination, (2) mathematics background required for physics and Skills Analysis: Quantitative, (3) general suggestions for taking the test, (4) an 80-item practice test; and (5) a supplementary 203-item illustrative test in a format identical to that of an actual test. Using the guidelines in this manual, candidates should be

able to manage their own preparation for the test. Instructions for obtaining this booklet will be contained in the registration packet for the examination.

It should be noted that the New MCAT includes tests to measure:

1. Science Knowledge (Biology, Chemistry and Physics)
2. Science Problems (Biology, Chemistry and Physics)
3. Skills Analysis (Reading)
4. Skills Analysis (Quantitative)

### Equivalent (Advanced) Standing

A limited number of transfer students from other medical schools may be accepted into Phase IB (September of second year), Phase II (mid-December of second year), an offset Phase II program which will start at the beginning of third year or into an offset Phase III program which begins in January. No transfer students will be accepted into the fourth year.

The offset Phase II and Phase III Programs are designed for students who have completed two years of Basic Science in traditional medical curriculum and who wish to transfer to McGill for their clinical years. The programs offered are identical to the regular Phase II and Phase III programs except that the curriculum is offset by 24 weeks compared to the regular program. Thus, students in Offset Phases II and III take all of Phase II in third year, the regular fourth year rotations (four 8-week clinical or elective rotations and the 12 weeks Basic Science Options), and then complete the remaining 24 weeks of clinical or elective rotations over the ensuing summer and autumn.

**Application Procedures for Advanced Standing:** Students of another medical school who wish to apply for advanced standing are required to submit an official statement of their preliminary education, the medical program they have followed and the standing obtained. This should be accompanied by a calendar of the medical school attended, giving a full statement of the course of study and a Dean's letter of recommendation. In addition, students applying for transfer from medical schools outside of Canada and the United States must take Part I of the National Board of Medical Examiners examinations, in June 1980. It is the responsibility of the applicant to forward the results of this exam to this office.

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 and the student may be required to pass such examinations, individual or comprehensive, as may be determined by this Faculty.



## FACULTY OF MEDICINE

### Applicant Review and Notification Procedure

After a review of the submitted application material; the Admissions Committee decides which applicants will be invited to come to the Faculty of Medicine Offices for interviews with Committee members. The Admissions Committee judges applicants on the basis of academic achievement (entire academic record and MCAT) as well as personal qualities and attitudes. Every effort will be made to coordinate our interviews with those arranged with other medical schools.

All applicants will be notified by letter of the decision of the Admissions Committee. Inasmuch as admission is offered a considerable period in advance of matriculation, it is provisional upon the successful completion of the remaining requirements for the various programs.

Successful applicants are given two weeks in which to reply to the letter and to state whether the offer of a place in the class will be accepted. NO DEPOSIT FEE IS REQUIRED.

### 4.2 REGISTRATION

New students in the Faculty of Medicine will register on Thursday, August 30, 1979. There will be a late registration fee of \$25.00 for those who register after this date. 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.

### 4.3 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 refundable under the conditions described in the *General Announcement*.

#### University Fees

1. Four-year program in Medicine (all years): \$719.00 plus Student Services fee of \$85.00 and Students' Societies fees of \$44.00. Foreign Students: \$1,500.00 plus Student Services and Students' Societies fees.
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  
Graduation Fee - \$15.00.

#### 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 15, 1980.

A late payment fee of \$10.00 is charged for payment during the first 30 days after registration. A late payment 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 20, 1980, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all returning 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 15, 1980. 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 Registrar's Office a list of the registered students who have not paid their fees. Until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant, transcripts of record, diplomas and permission to re-register will be withheld.

#### Graduation Fee

Applications by students who expect to graduate at the Spring Convocation must be filed by April 1st of each year and by those who expect to graduate at the Fall Convocation by October 1st of each year. An application form will be mailed to each eligible student and must be returned to the Registrar's Office together with the graduation fee of \$15.00 by the appropriate date listed above. This fee will cover the rental of all expenses in connection with graduation including academic dress. It is the students' responsibility to ensure that their names are included in the graduation list.

All fees are payable in Canadian currency.

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

#### 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 microscopes to cover general repairs and maintenance costs.

#### Board and Residence

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

#### Health Service and Student Services

For details of the Health Service, medical examinations and other student services see the *General Announcement*.

### 4.4 COURSES FOR THE DEGREE OF M.D., C.M.

A minimum of five years of professional training is required by the University as a qualification for the independent practice of Medicine. This includes:

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

While the Faculty's administration exercises a general supervision of arrangements for internship applications, the Faculty of Medicine does not assume the primary responsibility for providing an internship for any student.

#### EDUCATIONAL GOALS OF THE CURRICULUM IN THE FACULTY OF MEDICINE

Some of the major goals of the curriculum are:

1. To give students core knowledge and skills required for the practice of medicine.
2. To enable the student to use basic sciences in clinical medicine.
3. To humanize the students' approach to medicine.
4. To provide flexibility of content.

#### DESCRIPTIVE OUTLINE OF THE CURRICULUM IN THE FACULTY OF MEDICINE

The content of the McGill curriculum may be considered under four major headings - CORE, OPTIONS, ELECTIVES, and SCHEDULED FREE TIME.

CORE is that portion of the curriculum compulsory for all students. Core content provides the minimal preparation of a student for medical practice, and it must be supplemented by options and electives. Core includes basic biological sciences, behavioural and social sciences and clinical disciplines. It is taught in all four years of the curriculum.

OPTIONS may be thought of as a defined list of courses, determined by Faculty, from which students must select a specified number according to

the rules and regulations of Faculty. Options differ from electives in two respects. Options are courses specifically proposed and offered through Faculty for specific educational purposes and the number of options is limited.

ELECTIVES differ from options in the following ways: the students, not the Faculty, are primarily responsible for selecting the courses; the choice of electives is very large and may be taken in non-university settings. The only major restriction is that the elective must be related to medicine. Electives are seen as an opportunity for a student to either pursue a major interest in depth or to participate in a variety of experiences that might help the student decide on ultimate career objectives. Electives are taken during Phases II and III.

SCHEDULED FREE TIME is synonymous with "scheduled student learning time". It is a vital part of the timetable as "learning time" is an essential complement to "teaching time". Most of the scheduled free time at McGill occurs in Phase I.

In summary, the time allotment for each portion of the curriculum is as follows:

CORE	92 weeks	57%
OPTIONS	35 weeks	22%
ELECTIVES	24 weeks	15%
SCHEDULED FREE TIME	10 weeks	6%
TOTAL	161 weeks	100%

#### PHASES

The four years of the curriculum are divided into three phases:

PHASE I	Beginning of Year I to mid December of Year 2 (51 weeks)
PHASE II	Beginning mid December of Year 2 to end of December of Year 3 (42 weeks)
PHASE III	Beginning of January of Year 3 to end of May of Year 4 (68 weeks)

#### PHASE I

Phase I comprises all of first year and the first 16 weeks of second year. It is devoted largely to instruction in the Basic Biological Sciences. Normal Biology is the main theme of the first year (Anatomy and Embryology, Histology, Physiology, Biochemistry, Central Nervous System and Endocrinology). Behavioural Science and Epidemiology are the core non-biological sciences given in Phase I. In addition, short courses in Emergency Medicine, Human Genetics, Reproductive Medicine and the History of Medicine are offered in the first year.

As indicated in the timetable, first year students are required to take 108 hours of optional courses. Students may take credit courses from any of the faculties at McGill University. First year options may also be chosen from courses offered for credit



## FACULTY OF MEDICINE

by any of the universities in Montreal. Every student must take six option credits in the first year.

Abnormal Biology is introduced in the first 16 weeks of second year (Pathology, Microbiology and Pharmacology). A course in Growth and Development is also given during this period.

### PHASE II

Phase II consists of three main parts:

1. The bulk of the Introduction to Clinical Sciences Course.
2. The pre-clerkship clinical rotations in Medicine (12 weeks), Surgery (8 weeks), Obstetrics and Gynecology (8 weeks).
3. The Biology of Disease Course, predominantly a course in Pathophysiology, is given concurrently (two half days per week) with the clinical rotations.

In addition, Phase II contains an 8-week elective block.

### PHASE III

Phase III begins in January of the third year and concludes at the end of fourth year. The 68 weeks of the phase are divided as follows:

Clerkship	40 weeks
Electives	16 weeks
Basic Science Options	12 weeks

The clinical clerk occupies a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care. The clerkship is designed to permit the student to consolidate the clinical skills acquired in Phase I and II and to assume direct responsibility for patient care.

The clinical clerkship is structured to satisfy the demands of most licensing bodies. Students may, if they desire, enter directly into straight internships as the first year of their specialty training.

## 4.5 CURRICULUM REVIEW

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

- a) Rapid advances in scientific knowledge.
- b) Changes in the role of the medical school in the community and changes in the delivery of health care.
- c) Application of new principles of educational science to medical education.

Therefore a permanent student-faculty Curriculum Committee is charged with the task of reviewing the curriculum and recommending any modifications of time allocation or content to Faculty.

## 4.6 EVALUATION SYSTEM

The Evaluation System is under constant review by the Faculty Evaluation Committee. Any of the rules and regulations published here or in previous cal-

endars must not be considered inviolate; the Faculty reserves the right to change any of these rules and regulations at any time, although in general such changes will not come into effect in the middle of a session.

**Major Courses:** Formal student evaluation by examination and by other means (term papers, tutorial assessments of performance in small groups or on clinical services) will be conducted in the following courses: Anatomy (Embryology), Histology, Physiology, Biochemistry, Central Nervous System, Pathology, Microbiology, Pharmacology, Epidemiology, Biology of Disease, Phase II Surgery, Phase II Medicine, Phase II Obstetrics and Gynecology, Phase III Pediatrics, Phase III Psychiatry, Phase III Surgery, Phase III Medicine, all Phase III Clerk Options and Fourth Year Basic Science Options.

**Minor Courses:** Evidence of satisfactory completion before being considered for promotion to the next phase is required for the following courses: Behaviour, History of Medicine, Emergency Medicine, Human Genetics, Reproductive Medicine, Introduction to Clinical Sciences, Growth, Endocrinology, First Year Options and all Electives.

For the purposes of evaluation the four-year curriculum is broken down into the following sessions. At the end of each session the Student Promotions Committee meets to determine whether or not a student may proceed to the next session.

#### Evaluation Session I

The beginning of Year 1 until the end of Year 1

#### Evaluation Session II

The beginning of Year 2 until the end of Phase IB

#### Evaluation Session III

The beginning of Phase II until the end of Phase II

#### Evaluation Session IV

The beginning of Phase III until the end of Phase III

**Evaluation Procedures:** A student is not allowed supplemental evaluations in more than two major courses and one minor course in one evaluation session. A student who fails more than two major courses will be required to either repeat the session or retire from the Faculty. A failure in the supplemental evaluation of a major course will require the student to repeat the Evaluation Session. No student may repeat such an Evaluation Session more than once. The evaluation results of remedial clinical rotations will be recorded in the official transcripts as supplemental examinations, and will be considered as such for purposes of promotion.

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



The Faculty reserves the right to require the withdrawal of any student at any time, who is considered incompetent by the Promotions Committee.

#### 4.7 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 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 academic years at this University.
- 4) Every candidate for the degree must have passed all the required evaluations in the subjects comprising the Medical Course.

#### Intern Matching Services

A 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 enroll. 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.

In the past few years final year students at McGill have participated in three different matching services. The Québec Intern Matching Service sponsored by the Professional Corporation of Physicians of Québec matches applicants from Québec universities seeking mixed or rotating internships in Québec hospitals. The Canadian Intern Matching Service matches applicants for straight, mixed or rotating internships in over 120 training programs across Canada. The National Intern Matching Service matches applicants to American internship programs.

An explanation of these matching services is provided to third-year medical students in the spring.

#### 4.8 REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfill all the licencing requirements of the country in which they intend to practice 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 licence is vested in a licencing 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 licencing 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 licencing body of the country in which they intend to practise and obtain from that licencing body the necessary instructions.

Candidates wishing to practise medicine in the Province of Québec must have a working knowledge of French before they will be granted a permanent licence. To demonstrate this capability, a candidate will normally be required to pass an examination set by the Office de la langue française, unless he or she can show that three years of instruction in a French post-primary school have been completed. The Professional Corporation will require this proof of attendance or of successful completion of the Office examination.

Information on the testing program of the Office may be obtained by writing to: Office de la langue française, S.R.M.E., Case postale 316, Tour de la Bourse, H4Z 9Z9, Québec. Telephone 873-8361.

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:

- ALBERTA – Dr. L.H. le Riche, 9901 - 108th St., Edmonton, Alberta T5K 1G9
- BRITISH COLUMBIA – Dr. W.G. McClure, 1807 West 10th Ave., Vancouver, B.C. V6J 2A9
- MANITOBA – Dr. J.B. Morison, 1410-155 Carlton St., Winnipeg, Man. R3C 3H8.
- NEW BRUNSWICK – Dr. E.D. McCartney, 50 Crown Street, Saint John, N.B. E2L 2X6
- NEWFOUNDLAND – Dr. G.M. Brownrigg, 47 Queens Rd., St. John's, Newfoundland A1C 2A7
- NOVA SCOTIA – Dr. M.R. Macdonald, Sir Charles Tupper Medical Building, 10th Floor, University Ave., Halifax, N.S. B3H 4H7
- ONTARIO – Dr. D.M. Aitken, 64 Prince Arthur Ave., Toronto, Ont. M5R 1B4
- PRINCE EDWARD ISLAND – Dr. S. MacDonald, 206 Spring Park Rd., Charlottetown, P.E.I. C1A 3Y9
- QUÉBEC – Dr. A. Roy, 1440 Ste. Catherine St. West, Suite 914, Montreal, P.Q. H3G 1S5.



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SASKATCHEWAN – Dr. A.W. Thomson, 211 - 4th Ave. S., Saskatoon, Sask. S7K 1N1

### Medical Council of Canada

In order to take the examination of the Medical Council of Canada, a candidate 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. Students must have satisfactorily completed required remedial rotations before writing the L.M.C.C. examinations.

Full information may be obtained by writing to the Registrar, Box 8234, 1867 Alta Vista Drive, Ottawa, Ontario K1G 3H7.

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

The Faculty of Medicine in conjunction with the affiliated teaching hospitals offers a wide variety of programs leading to McGill Certificates of Intern and Resident Training. Details of the graduate programs available are included in the McGill calendar of Postgraduate Training Programs. Initial inquiries should be addressed to the Associate Dean (Postgraduate Medical Education), Faculty of Medicine.

### 4.10 GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Opportunities for graduate work in the basic medical and clinical sciences leading to the degrees of M.Sc. and Ph.D. are offered by many of the Departments of the Faculty of Medicine. By special arrangements these studies can be pursued concurrently with work towards the M.D., C.M. degree. Details of the Programs available are included in the Calendar of Graduate Studies in Medical and Allied Sciences.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital, the Royal Victoria Hospital, the Montreal Neurological Institute, L'Institut de Recherche Clinique and the Lady Davis Institute of the Jewish General Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery, Pediatrics and Obstetrics and Gynecology who are responsible for the direction of research programs. For administrative purposes graduate work in these areas is grouped under the Division of Experimental Medicine, which is a branch of the Department of Medicine and the Division of Experimental Surgery, which is a branch of the Department of Surgery.

Inquiries concerning research training in the medical sciences should be directed to the chair-

man of the department in which the candidate wishes to receive his or her graduate education. Alternatively, letters may be addressed to: The Associate Dean for Graduate Studies and Research, Faculty of Medicine

## 5

## COURSES OF INSTRUCTION

### 5.1 ANATOMY

#### Required Courses

##### PHASE I

HUMAN ANATOMY 504-131D. The structure of the human body is studied by means of dissection, predissected specimens, lectures, small-group tutorials and audio-visual presentations (closed circuit TV, films, and film loops). The course includes developmental, surface and radiological anatomy and an introduction to clinical anatomy. (Course coordinator: Dr. D.G. Osmond)

*Texts:* J.T. Aitken, G. Causey, J. Joseph and J.Z. Young, *A Manual of Human Anatomy*, Vols. 1, 2 & 3. 3rd ed. (Churchill Livingstone, 1976); J.C.B. Grant, *An Atlas of Anatomy*, 6th ed. (Williams and Wilkins, 1972); or Carmine D. Clemente, *Anatomy, A Regional Atlas of the Human Body*, (Lea & Febiger, 1975); and one of the following: R.S. Snell, *Clinical Anatomy for Medical Students*, 1st ed. (Little, Brown & Co, 1973); E. Gardner, D.J. Gray and R. O'Rahilly, *Anatomy*, 4th ed. (W.B. Saunders, 1975); W.H. Hollinshead, *Textbook of Anatomy*, 2nd ed. (Hoeber, 1967); R.T. Woodburne, *Essentials of Human Anatomy*, 6th ed. (Oxford University Press, 1978).

EMBRYOLOGY. This course of human developmental anatomy is integrated with the course in Human Anatomy.

*Texts:* J. Langman, *Medical Embryology*, 3rd ed. (Williams and Wilkins 1974) or K. Moore, *The Developing Human*, 2nd ed. (Saunders, 1977).

HISTOLOGY 504-121D. The study, by means of the light and electron microscope, of various types of cells and of the structure of various tissues and organs. This course includes laboratory sessions during which sections of a variety of tissues and organs are systematically analyzed. (Course Coordinator: Dr. Y. Clermont)

*Texts:* A.W. Ham, *Histology*, 7th ed. (Lippincott, 1974); W. Bloom and D.W. Fawcett, *A Textbook of Histology*, 10th ed. (Saunders, 1975); E.J. Reith and M.H. Ross, *Atlas of Descriptive Histology*, 2nd ed. (Harper Row, 1970).

CENTRAL NERVOUS SYSTEM 524-121B. The Department of Anatomy is a major contributor to this Interdisciplinary Course. See Section 5.22.



**PHASE III**

**ANATOMY FOR SURGEONS** Practical and applied anatomy, radiological anatomy and embryology are covered in a four-week, full-time course designed for students with a particular interest in Surgery. Course work includes dissection and other laboratory exercises, tutorial-discussion groups, student seminars, problem-solving exercises and clinico-anatomical conferences. (Dr. D.G. Osmond and Staff)

**Graduate Courses**

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

**5.2 ANESTHESIA**

Anesthesia is based on a sound application of the basic sciences coupled to knowledge of relevant clinical medicine and the care of the critically ill patient.

To assist the student to acquire the core aspects of this discipline recommended for all intending practitioners, the Department of Anesthesia participates in many courses during the three phases of the medical curriculum.

**PHASE I**

**EMERGENCY MEDICINE 524-151A.** The Department of Anesthesia is a contributor to this Interdisciplinary course. See Section 5.22. It also contributes to the departmental courses in Pharmacology and Therapeutics and Human Anatomy.

**PHASE II**

During surgical rotations a series of lecture demonstrations related to pre-operative and postoperative care is given by this department.

**BIOLOGY OF DISEASE 524-221N.**  
**INTRODUCTION TO CLINICAL SCIENCES 524-231D.**

The Department of Anesthesia contributes to these Interdisciplinary Courses. See Section 5.22.

**PHASE III**

The Department of Anesthesia participates in several of the Basic Science options including: Physiology and Pharmacology of Pain, Pharmacology of Anesthetic Drugs, Cardiovascular Physiology and Respiratory Physiology.

The Department has recently introduced a Phase III option. The objectives and design of the option are similar to those of the Anesthesia electives. In addition the option will provide senior students with an opportunity to receive training in basic life support and participate in the anesthetist's activities outside of the operating room.

**5.3 BIOCHEMISTRY****Required Courses****PHASE I**

**BIOCHEMISTRY 507-121D.** Lectures and clinical demonstrations are given, covering basic biochemistry with special relationship to disease processes. (Course coordinator: Prof. Peter Braun)

**BIOCHEMISTRY 507-122D.** Topics in biochemistry. By special permission of department only. (Course coordinator: Prof. Peter Braun)

**ENDOCRINOLOGY 524-141B.**

The Department of Biochemistry is a contributor to this Interdisciplinary Course. See Section 5.22.

**Other Courses**

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

**5.4 BIOMEDICAL ENGINEERING UNIT****Graduate Program**

The Biomedical Engineering Unit provides opportunities for interdisciplinary research and training in collaboration with other departments. Graduate courses are offered for students with engineering or biomedical backgrounds. See *Announcement of the Faculty of Graduate Studies and Research*.

**5.5 EPIDEMIOLOGY AND HEALTH****Required Courses****PHASE I**

**EPIDEMIOLOGY 513-121N.** A series of lectures, exercises and small group discussions dealing with the nature and scope of epidemiology with particular attention to its uses in clinical medicine as well as in public health.

**MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY** (given jointly with the Department of the History of Medicine). In a series of lectures and seminar discussions dealing with the economic and social implications of medical practice with respect to social and personal values and priorities as they relate to sickness and health. This course is a continuation of Epidemiology 513-121N.

**PHASE II**

**BIOLOGY OF DISEASE 524-221N.** The Department of Epidemiology and Health participates in this Interdisciplinary Course. See Section 5.22.



## 5.6 FAMILY MEDICINE

### PHASE III

#### Options

The Family Medicine Option for Phase III students is held at one of the five Family Medicine Teaching Units associated with the McGill Teaching Hospitals. Units are located at the following hospitals: Montreal General, Jewish General, St. Mary's, Queen Elizabeth, and Montreal Children's. The Option program is designed to provide a realistic experience in ambulatory primary care as distinct from secondary or tertiary care provided by in-hospital services. It is intended that this experience would be of value not only to those who are considering Family Medicine as a career, but to those students who as specialists or generalists anticipate practising in office or group practice. Because of the nature of "one to one" teaching, only a limited number of students can be accepted at each Unit. The student is integrated into the Health Care Team, consisting of family practitioner, nurse practitioner, social worker and consultant. The student will also participate in the teaching program for Family Medicine residents, i.e., research projects, core content seminar series, etc.

## 5.7 HISTORY OF MEDICINE

### Required Courses

#### PHASE I

HEALTH AND THE HEALER IN THE WEST 522-121A. A series of 16 one-and-a-half hour lectures tracing the patterns of health and disease from antiquity to modern times and the development of the medical profession.

MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY (given jointly with the Department of Epidemiology and Health. For description, see that Department's listing.)

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.

#### Options

The Department offers a wide range of fourth year options in many aspects of the social sciences and humanities as they relate to medicine. For details see the Basic Science Options Catalogue.

## 5.8 MEDICINE

### Required Courses

#### PHASES I and II

BEHAVIOURAL SCIENCES 524-161D.  
EMERGENCY 524-151A.  
ENDOCRINOLOGY 524-141B.  
BIOLOGY OF DISEASE 524-221N.

INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Medicine is a contributor to these Interdisciplinary Courses. See Section 5.22.

### PHASE II

BLOCK TEACHING IN MEDICINE 526-321A/B. In this twelve week course, the student has the opportunity to build further on the clinical skills developed in the course on Introduction to Clinical Sciences. The ward is the laboratory, wherein the student sees in the patients assigned, the living embodiment of the conditions described in the textbooks. The clinical experience gained from reading and from examination of patients leads to development of confidence and acumen, as well as to the ability to prepare a meaningful written record, which like a laboratory report, is carefully scrutinized by clinical instructors. Regular oral presentations to attending staff form an integral part of the course. Specialty areas of Dermatology, Ophthalmology, Neurology, Radiology, Clinical Pharmacology, Electrocardiology, all contribute to the student's experience.

By the end of the course the student is expected to be capable of handling competently all the duties of a clinical clerk.

### PHASE III

The Department of Medicine will be responsible for a variety of offerings in phase III of the medical curriculum.

At this level of training, the student accepts the responsibility for the initial work-up, the completion of the written record, the differential diagnosis (or problem list), the plan of investigation, the progress notes and the discharge summary of each patient assigned. By constant reading, by discussions with his resident team and by case presentations, clinical skills are further developed. In attendance at follow-up clinics, the student learns the results of his therapeutic efforts on the wards. A judicious selection of specialty conferences also assists in this process.

### Experimental Medicine

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

## 5.9 MICROBIOLOGY AND IMMUNOLOGY

### Required Courses

#### PHASE I

MICROBIOLOGY AND IMMUNOLOGY 528-221A. A general introduction to Microbiology and Immunology is offered in the second year of Phase I in preparation for the infectious disease portion of the BIOLOGY OF DISEASE course. Lectures and



demonstrations deal with the general nature of the various groups of microorganisms, i.e., the bacteria, fungi, viruses, protozoan parasites and helminths of medical importance and the methods by which they are studied particularly for diagnostic purposes. Sterilization, disinfection and chemotherapeutic agents are covered. Basic immunology is dealt with as are host-parasite interrelationships. The course is concluded by a systematic survey of the major groups of pathogenic microorganisms.

## PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Microbiology and Immunology is a major contributor to this Interdisciplinary Course. See Section 5.22.

## 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., M.Sc.A. and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research*.

## 5.10 NEUROLOGY AND NEUROSURGERY

### Required Courses

#### PHASES I AND II

CENTRAL NERVOUS SYSTEM 524-121B. The Department of Neurology and Neurosurgery is a major contributor to this Interdisciplinary Course. See Section 5.22.

NEUROPATHOLOGY. Given in conjunction with the courses in Pathology and Biology of Disease.

INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Introduction to Clinical Sciences course. See Interdisciplinary Courses, Section 5.22.

#### PHASE II

CLINICS AND CONFERENCES. In conjunction with the Departments of Medicine and Surgery.

#### PHASE III - OPTIONS

Some of the students in Phase III will receive optional rotations in Clinical Neurology.

### Graduate Courses

Courses are offered leading to the M.Sc. and Ph.D. Degrees. See *Announcement of the Faculty of Graduate Studies and Research*.

## 5.11 OBSTETRICS AND GYNECOLOGY

### Required Courses

#### PHASE I

BEHAVIOURAL SCIENCES 524-161D.

EMERGENCY 524-151A

The Department of Obstetrics and Gynecology contributes in part to the course in Behavioural Sciences and Emergency Care. As a basis for the clinical study of Obstetrics and Gynecology, a core course of human reproductive medicine will be given in Phase I.

#### PHASE II

OBSTETRICS AND GYNECOLOGY 534-321A/B.

An eight week period is allocated to Obstetrics and Gynecology during Phase II. The class is divided into three sections. The course consists of lectures, a supervised approach to clinical obstetrics and gynecology and a core obstetrical and gynecological experience in the wards, clinics and labour and delivery facilities. The course has been developed, using as a base the material taught in Reproductive Medicine in Phase I.

#### PHASE III

In Phase III, the following courses and electives are offered to enlarge and enrich the Basic Course of Phase II.

Students who have chosen an Obstetrics and Gynecology option can be assured of a 4-week clinical clerkship, in which they will take an integral part in the management of patients under supervision.

*Texts:* Compulsory for all students:

Page, Villee, Villee. *Human Reproduction. The Core Content of Obstetrics, Gynecology and Perinatal Medicine*, 2nd. ed. Recommended: T.H. Green, *Gynecology* 3rd ed., (Little, Brown, 1977); R. Kenneth, Niswander, *Obstetrics - Essentials of Clinical Practice*.

## 5.12 OPHTHALMOLOGY

### Required Courses

#### PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. As part of Introduction to Clinical Sciences, the various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized. See Interdisciplinary Courses, Section 5.22.

PRACTICAL CLINICAL OPHTHALMOLOGY. Practical Clinical Ophthalmology including OPHTHALMOSCOPY is taught at the Montreal General, Royal Victoria and Jewish General Hospitals in conjunction with the Medicine rotation.



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### PHASE III

In Phase III there will be a one-month ophthalmology option. These options will take place at the Montreal General, Royal Victoria, Montreal Children's and Jewish General Hospitals. Each student will function as a clinical clerk in the respective Eye Department.

*Texts:* Scheie and Albert, *Adler's Textbook of Ophthalmology*, 8th ed. (Saunders, 1969); Vaughan, Asbury, Cook, *General Ophthalmology*; 6th ed. (Lange, 1971); Frank W. Newell, *Ophthalmology*, 2nd ed. (Mosby, 1969).

*References:* W.S. Duke-Elder, *System of Ophthalmology*, 12 vols. (Kimpton, 1958-72); Hogan and Zimmerman, *Ophthalmic Pathology*, 2nd. ed. (Saunders, 1962); W.S. Duke-Elder, *Parson's Diseases of the Eye*, 15th ed. (Longman, 1970).

### Postgraduate Program

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

## 5.13 OTOLARYNGOLOGY

### Required Courses

#### PHASE I

OTOLARYNGOLOGY. An introductory course in Clinical Anatomy pertaining to the ear, nose and throat is presented during Phase I by the Department of Anatomy.

#### PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The Department of Otolaryngology is a contributor to this course, providing instruction in otolaryngological history taking and methods of physical examination.

OTOLARYNGOLOGY. "Block Time" clinical instruction is given to small groups of students as part of the Phase II Surgery rotation. In these sessions didactic lectures are given relating to ear, nose and throat disorders, and the students are given the opportunity to examine hospital patients if the group size permits.

### Graduate Program

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

## 5.14 PATHOLOGY

### Required Courses

#### PHASE I

GENERAL PATHOLOGY 546-121A. This course is largely a self-preparation program taught in seminars. It covers the principles of general pathology and their relationship to commonly encountered diseases. (Course Coordinator: Dr. D. Kahn)

### PHASE II

BIOLOGY OF DISEASE 524-221N. The Department of Pathology is a contributor to this Interdisciplinary Course. See Section 5.22.

COURSE IN APPLIED PATHOLOGY. Weekly clinico-pathological conferences are offered in conjunction with the Medicine rotation. (Course Administrator: Dr. J. Knaack)

### PHASE III

SURGICAL PATHOLOGY OPTION. Students with an interest in Surgery may spend 4 weeks participating in the daily activities of an active surgical pathology laboratory.

BASIC SCIENCE OPTIONS are given in special, experimental and general pathology.

### Postgraduate Courses

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

## 5.15 PEDIATRICS

### Required Courses

#### PHASE I

GROWTH AND DEVELOPMENT. This course is designed to follow the major basic science course material and to illustrate how the stage of growth and development modifies the physiologic and pathologic responses of the organism. It looks at the role genetics, environmental, nutritional and hormonal factors play during the main periods of growth - late fetal life, post-natal life to puberty and puberty. The course consists of lectures and small group discussions. (Course Coordinator: Dr. David Rosenblatt)

#### PHASE III

PEDIATRICS 543-400A/B. Clerkship in Pediatrics as a member of a clinical service, provides the opportunity for experience in the management of pediatric problems under supervision. The clerkship includes ward and ambulatory rotations at the Montreal Children's Hospital and newborn experience at either the Jewish General Hospital or the Royal Victoria Hospital. The clerks participate in a series of core-material conferences in addition to the regularly scheduled educational program of the hospital. (Coordinator: Dr. Wendy MacDonald)

## 5.16 PHARMACOLOGY AND THERAPEUTICS

The program of instruction 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.



**Required Courses****PHASE I**

PHARMACOLOGY AND THERAPEUTICS 549-221A. An introductory course concerned primarily with the pharmacodynamics of those drugs most frequently encountered in clinical practice.

**PHASE II**

PHARMACOLOGY AND THERAPEUTICS. The Department contributes to the Biology of Disease course emphasizing the pharmacological basis for the selection of drugs and the use of these drugs in the treatment of disease.

**PHASE III**

PHARMACOLOGY AND THERAPEUTICS. A variety of seminar courses covering selected areas of Pharmacology is offered. Students choose one or more of these courses in areas of their special interest. The seminars are intended to be a look in depth into special subjects rather than broad general reviews.

**5.17 PHYSIOLOGY****Required Courses****PHASE I**

MEDICAL PHYSIOLOGY 552-121D Lectures and Laboratories. An advanced course on the functioning of body systems. Emphasis is on aspects of system physiology relevant to disease mechanisms and clinical function testing. Topics include the physiology of blood and body fluids, circulation, central and peripheral nervous system, respiration, excretion, digestion and immunity. (Course Coordinator: Dr. C. Polosa)

CENTRAL NERVOUS SYSTEM 524-121B.  
ENDOCRINOLOGY 524-141B.

The Department of Physiology contributes to these Interdisciplinary Courses. See Section 5.22.

**Other Courses**

For other undergraduate and graduate courses see the *Announcements of the Faculties of Arts and Science and Graduate Studies and Research*.

**5.18 PSYCHIATRY****Required Courses****PHASE I**

BEHAVIOURAL SCIENCE 524-161D. The Department of Psychiatry is a major contributor to this Interdisciplinary Course. See Section 5.22.

**PHASE III**

PSYCHIATRY 555-400A/B. Eight-week block training to acquaint all students (Core program)

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 exposure to current theoretical models and treatment approaches in psychiatry, to indicate the relevance of certain concepts and attitudes to non-psychiatric medical practice, and to supply well-supervised clinical experience which is patient-oriented and responsibility-centred. (Course Coordinator: Dr. R.A. Ramsay)

PSYCHIATRY CLERK OPTIONS. Students with an interest in Psychiatry may take a 4-week rotation with intensive clinical experience in the areas of Psychosocial Medicine, Consultation Psychiatry, Emergency Psychiatry and Brief Psychotherapy.

**Graduate Courses**

For information regarding the Diploma Course in Psychiatry and courses leading to the M.Sc. Degree in Psychiatry, see the *Announcement of the Faculty of Graduate Studies and Research*.

**5.19 DIAGNOSTIC RADIOLOGY****Required Courses****PHASE I**

NORMAL ROENTGEN ANATOMY 504-131D. In co-operation with the Department of Anatomy.

ROENTGEN DEMONSTRATIONS OF PHYSIOLOGY 552-121D. In co-operation with the Department of Physiology.

RADIOLOGY. An option course offered to first year students. This course is designed to inform the student about the use and necessity of radiologic procedures in diagnosing diseases. Lectures will be given by experts in different fields of Diagnostic Radiology (i.e., lungs, heart, gastrointestinal diseases) and Nuclear Medicine (diagnostic use of radioisotopes).

**PHASE II**

BIOLOGY OF DISEASE 524-221N. The Department of Diagnostic Radiology is a contributor to this Interdisciplinary Course. See Section 5.22.

SEMINARS IN DIAGNOSTIC RADIOLOGY. These are held weekly for students during their "block time" in Medicine and Surgery.

**PHASE III**

DIAGNOSTIC RADIOLOGY OPTION. During Phase III students receive a 4-week rotation in a Diagnostic Radiology program emphasizing diseases of clinical import and the role of Radiology in



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medicine. In addition, all students during their "clinical clerkship" attend regular conferences in the Department of Diagnostic Radiology.

### 5.20 THERAPEUTIC RADIOLOGY

#### Required Courses

##### PHASES I AND II

INTRODUCTION TO THERAPEUTIC RADIOLOGY. Includes the basic principles and applications of Radiation Physics, Radiobiology and Radiopathology of conditions treated by means of ionizing radiation. Given in conjunction with Pathology and Biology of Disease courses.

##### PHASE II

CLINICAL THERAPEUTIC RADIOLOGY. Teaching is integrated with the clinical rotations.

##### PHASE III

CLINICAL THERAPEUTIC RADIOLOGY. Continuation of the clinical program initiated in Phase II.

#### Graduate Courses

Diploma in Therapeutic Radiology. See *Announcement of the Faculty of Graduate Studies and Research*.

### 5.21 SURGERY

#### Required Courses

##### PHASE I

BEHAVIOURAL SCIENCE 524-161D.  
EMERGENCY MEDICINE 524-151A.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.22.

##### PHASE II

BIOLOGY OF DISEASE 524-221N.  
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.22.

SURGERY 564-321A/B. During the surgical rotation, students are provided with a variety of learning experiences, so that they may learn the principles of surgery. Much of the teaching is didactic either in the Montreal General Hospital or the Royal Victoria Hospital. Students are also assigned to a surgical service where they may write case reports, act as a dresser and assist at operations. The learning experiences include lectures, case presentations, seminars, tutorial sessions, special core curriculum conferences, bedside teaching, participation in regular service and ward rounds, visits to the Emergency

Department and clinical pathological conferences. (Course Co-ordinators: Drs. E.D. Monaghan and L. Ogilvy)

##### PHASE III

In Phase III of the curriculum, students spend eight weeks as clinical clerks in Surgery. Four weeks are spent in General Surgery and CVT and, during the other half of the rotation, clinical clerks divide their time, at two weeks each, in the following Surgical disciplines: Urology, Plastic Surgery, Orthopedic Surgery, Trauma, Pediatric Surgery, and Neurosurgery. For these purposes, the students will be sent either to the Montreal General Hospital or to the Royal Victoria Hospital and to the Montreal Children's Hospital for Pediatric Surgery.

#### Surgical Diseases of Children

Instruction in the Surgical Diseases of Children is given during the Pediatrics rotation.

#### Orthopedic Surgery

Principles of physical diagnosis of the musculoskeletal system are taught during the course on Introduction to Clinical Sciences in Phases I and II.

The principles of Orthopedic Surgery are covered during the course on Surgery in Phase II. An attempt is made to outline broadly the content of adult Orthopedics, children's Orthopedics and fractures.

Phase III clinical clerks in Surgery will generally spend two weeks in Orthopedic Surgery.

#### Urology

Lectures are given in Phase II during the Surgery rotation. Subject coverage includes symptoms and signs of significance, congenital anomalies, obstructive uropathy, calculus disease, genitourinary infections, abnormalities of the external genitalia, patho-physiology of micturition and neoplastic disease of the genito-urinary tract.

### 5.22 INTERDISCIPLINARY COURSES

#### Required Courses

##### PHASE I

BEHAVIOURAL SCIENCES 524-161D. This course aims at facilitating medical students' familiarity with the impact of disease on a patient's style of living, socio-economic security and family. The course also focuses on the physician whose career puts him at risk to stress and strain personally and in relationship to his family. It attempts to offer suggestions to safeguard one's wellbeing in the practice of medicine. Seminars are grouped along various themes and are developed around selected case material, films and audiovisual aids. The subject



matter is opened up directly by patients and developed by Faculty. The student body is divided into groups to provide an opportunity to meet and discuss informally related issues with members of Faculty. Lectures and demonstrations – 79 hours. (Course Coordinator: Prof. Margaret Lock)

**CENTRAL NERVOUS SYSTEM 524-121B.** This course consists of an integrated series of lectures, laboratory classes and clinical demonstrations having to do with anatomical, physiological, biochemical and behavioural aspects of nervous system organization which have particular importance in neurological medicine, thereby preparing the student for the clinical neurology teaching that will be given in the later phases of the medical curriculum. (Course Coordinator: Dr. Donald Lawrence)

**EMERGENCY MEDICINE 524-151A.** This course consists of a series of twenty sessions given in the first year providing an introduction to the principles of emergency medicine. Emphasis is placed on pre-hospital emergency care of the acutely ill and injured. There are practical demonstrations in Cardio-Pulmonary Resuscitation. The required text is *"Emergency Care and Transportation of the Sick and Injured"*, by the Committee on Injuries – American Academy of Orthopaedic Surgeons. (Course Coordinator: Dr. E.D. Monaghan)

**ENDOCRINOLOGY 524-141B.** This course is conducted in a series of fifty-minute lectures and is organ-oriented. Sequentially, the adrenal cortex, the thyroid, the parathyroid, the anterior pituitary and male gonads are covered; female reproductive endocrinology is covered elsewhere in Phase I. Each organ is viewed from the point of view of physiology, biochemistry, anatomy and clinical physiopathology. In the final hours, the endocrine control of blood pressure and of salt and water metabolism and the physiology, anatomy and clinical testing of the neuroendocrine system are covered. (Course Coordinator: Dr. J.M. McKenzie)

**HUMAN GENETICS 524-131B.** This course is designed to show how recent advances in human genetics affect current medical practice. Topics include mendelian genetics, chromosomal disorders, population genetics, pre-natal diagnosis, genetic counselling and treatment of genetic disease. The course consists of lectures and presentation of patients. (Course Coordinator: Dr. David Rosenblatt)

#### PHASE I and II

**INTRODUCTION TO CLINICAL SCIENCES 524-231D.** The course objective is to provide students

the opportunity to make their first meaningful contact with patients. In so doing they learn, under supervision, how to take a history, conduct an examination of each of the body systems, create problem lists and arrive at reasonable diagnoses. This course, beginning in September of Year II and completed by mid-January, is the direct responsibility of the Department of Medicine, which is assisted in the teaching and supervision by the Departments of Surgery and Pediatrics. The specialty areas of Neurology, Anesthesia, Orthopedics, Urology, Plastic Surgery, Otolaryngology, Ophthalmology and Dermatology also have an input. At the end of the course there is an assessment of individual progress measured against the stated course objectives. (Course Coordinator: Dr. J.L. McCallum)

#### PHASE II

**BIOLOGY OF DISEASE 524-221N.** An integrated course taught under the auspices of Epidemiology and Health, Microbiology and Immunology, Pathology and Pharmacology, which utilizes teachers from the entire Medical Faculty. The emphasis of the course is on the pathophysiology of common disease states, and an attempt is made to present a balanced approach to major diseases stressing factors that will influence prevention, control and rational treatment. The course is held at the McIntyre Medical Sciences Building. Small group sessions are held at the Royal Victoria Hospital and the Montreal General Hospital where they are integrated with the students' medical and surgical rotations. (Course Coordinators: Drs. J. Richardson and A. Tenenhouse)

#### 5.23 ELECTIVE COURSES

Major electives are offered by the following Departments: Anatomy, Anesthesia, Biochemistry, Biomedical Engineering, Epidemiology and Health, Family Medicine, History of Medicine, Medicine, Microbiology and Immunology, Neurology and Neurosurgery, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Pharmacology and Therapeutics, Physiology, Psychiatry, Diagnostic Radiology, Therapeutic Radiology and Surgery during Phase II and III. Details are published in the "Elective Calendar" and further information can be obtained from the Office of the Associate Dean (Medical Education).



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