McGill

1985/86

Faculty of
Medicine

Faculty of Medicine
1985-86

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Lecturers – J. Belair, S. Bodnar, N. Brassard, R. Bull, N. Choudhury, E. Eason, A. Fortin, C. Fortin, J.C. Fournier, R. Frydman, A. Gabor, K. Gemayel, I. Glickman, M. Guralnick, I. Hierz, G. Luskey, G. Mallough, N. Mansour, K. Maraghi, J.W. Patrick, T. Perry, E. Phelps, W.D. Polan, E. Quiros, L.M. Sanford, S. Shams, J. Shinder, N. Smith, L. Tremblay, F. Tzipris, D. Weiner
Emeritus Professors – K.T. MacFarlane, G.B. Maughan, N.W. Philpott

Ophthalmology

Professor and Chairman – S.B. Murphy
Professor – J.C. Locke
Associate Professors – S. Brownstein, W.B. Jackson, M.K. Khalil, T.H. Kirkham, J.M. Little, D.W.C. Lorenzetti, N.E. Saheb, H.L. Tanenbaum, W. Turnbull
Assistant Professors – D. Anderson, D. Boyaner, P.A. Capombassis, P.L. Davis, E. Gordon, M. Kaback, L.S.S. Kirschberg, N. Lake, A.B. Leith, R. Lewandowski, D. Nicolle, O. Overbury, R. Polomeno, R.B. Ramsey, J. Rosen, P. Rosenbaum, J. Wise
Lecturers – A.G. Balazsi, F. Codére, E. Connolly, S. Fichman, D. Fiander, M. Flanders, J.A. Foreman, J.E.S. Gomolin, M. Gosselin, M. Kwitko, P. Lachapelle, R.W. Pearman, R. Pierson, L. Robidas, K.E. Schirmer, B. Silver, L. Solomon, C.R. Staudenmaier, E.D. Svarc, J.B. Waldron

Otolaryngology

Professor and Chairman – J.D. Baxter
Professors – D.G. Doehring
Associate Professors – E. Attia, M.J. Black, K.K. Charan, A. Cohen, W.R.J. Funnell, A. Katsarkas, J.C. McNutt, M. Mendelsohn, W.H. Novick, J.S. Outerbridge, M.D. Schloss, R.S. Shapiro
Assistant Professors – H. Caplan, N. Chan, E. Cole, N. Fanous, S. Frenkiel, I. Fried, H.J. Hecki, R. Lafleur, D. Leckie, R.M. McMillan, S. Schwartz, B. Segal, R. Shenker, A. Smith, T.L. Tewfik
Lecturers – H. Ayukawa, M. Berger, D. Bonnycastle, M. Crago, J. Fish, J. Harrison, I. Hoshko, A. Lemay, M. Mischook, M. Moon, G. Sejean, R. Springer

Pathology

Professor and Chairman – S. Moore
Professors – S.H. Carpenter, W.P. Duguid, A. Ferenczy, I. Huttner, D.S. Kahn, J.B. Richardson, *(Miranda Fraser Professor of Comparative Pathology)*, G. Rona, T.A. Seemayer, H. Sheldon *(Strathcona Professor of Pathology)*, G. Tremblay, N.S. Wang
Associate Professors – M.N. Ahmed, S. Brownstein, J.P. de Chadarévian, R.D.C. Forbes, D.G. Haegert, S. Jothy, J. Knaack, J.R.C. Lachance, J.O. Lough, R.P. Michel, D.R. Murphy, R.S. Poulsen, Y. Robitaille, M. Vekemans, B.I. Weigensberg, E. Zorychta
Assistant Professors – J. Arseneau, P. Averback, L. Bégin, G.R. Berry, R. Buell, B. Case, M.L. de Champlain, M.F. Chen, R. Fraser, R.H. Latt, M. Mandavia, R. Onerheim, G. Prud'homme, L. Rochon, A. Rona, M. Senterman, H. Srolovitz, S. Tange, M.A. Trudel, J. Viloria, A.K. Watters, J.L. Webb
Lecturers – C. Bier, J. Emond, M. Lavallée, B. Manasc, L. Oliva, C. Pothel, B.M. Wolanskyj

Pediatrics

Professor and Chairman – K.N. Drummond
Professors – J.V. Aranda, E. Colle, H. Guyda, L. Pinsky, I.B. Pless, C.R. Scriver, R. Usher, G. Watters
Associate Professors – J. Adelson, F. Andermann, R. Barr, M. Belmonte, M. Bressack, M. Bureau, A. Coates, J.P. de Chadarévian, C. Dupont, N.R. Eade, J.S.C. Fong, P. Forbes, Z. Fox, C. Freeman, E. Gibbons, F. Glorieux, H. Goldman, C. Goodyer, R.A. Hutcheon, B.S. Kaplan, G. Karpati, M. Kramer, W. MacDonald, K. Metrakos, E. Mills, B. Moroz, M.B. Nogrady, E.W. Outerbridge, A. Papageorgiou, M. Paquet, S. Pedvis, D. Rosenblatt, T.A. Seemayer, N. Steinmetz, H. Strawczynski, G. Tannenbaum, M.J. Vekemans, G. Weiss, V.M. Whitehead, D. Willis, M.B. Wise
Assistant Professors – J. Belley, M. Bernstein, S. Blaichman, P. Blanchard, M. Boutry, C. Branchaud, A. Chan-Yip, J.S. Charters, M. Cherniak, L. Chevalier, J. Chiu, F. Choy, B. Costom, R. deBelle, J.R. Deckelbaum, S.L. Dongier-Montagnac, J.M. Elder, D.L. Esseltine, N. Fitch, E. Francoeur, P. Goodyer, C. Grandbois, J. Gulyas, R. Haber, L. Hechtman, P. Hechtman, J. Howell, M. Hunter, P. Junger, P. Kaplan, M. Kazemi, F. Key, L. Kimoff, M. Klein, P. Koch, E. Kolyvas, H. Kopelman, I. Kunos, C. Laferriere, G. Lancaster, L. Laporte, C. Larson, J.L. Leblanc, D. Leduc, F. Lehmann, C. Lejtenyi, A.M. MacLellan, D. Moore, J. Neal, A. Pavilanis, G. Pekeles, R. Pincott, J.P. Poirier, C. Polychronakos, E. Reece, H. Rich, P. Riley, R. Rozen, B. Rosenblatt, A. Schiffrin, O. Schultz, K. Silver, M.A. Smith, H. Surchin, H. Tenenhouse, M. Westwood, F. Wiener, R. Williams, W. Woebler, A. Zeliger, R. Zinman
Lecturers – M. Babineau, M. Berry, C. Clow, C. Cummings, A. Daoud, E. Delvin, D. Dikranian, P. Douyon, A. Feldman, J. Fried-

man, M. Gillin, V. Goldbloom, A. Gordon, J. Hortop, R. Jeanneau, V. Khediguian, J. Kiteala, L. Koclas, P. Lawandi, G.H. Lupu, M.E. Malowany, R. Martin, D. Munz, M. Pamukoff, I. Pereira, S. Quansah, D. Rabin, A.J. Roche, E. Rosenberg, M. Rozenfeld, E. Shahin, M. Shepherd, W. Sissons, N. Stein, B. Vitullo, C. Wang, S. Woods, J. Yaremko, H.O.R. Young, B. Zybergold-Schonfeld

Associate Member – A.H. Aronheim

Emeritus Professor – A.S. Ross

Pharmacology and Therapeutics

Chairman – C. Cuello

Professors – J.V. Aranda, B.G. Benfey, B. Collier, D. Ecobichon, G. Kunos, J.B. Richardson, A. Tenenhouse, J.M. Trifaro

Associate Professors – J. Aranda, R. Capek, N.R. Eade, B. Esplin, P.J. McLeod, A. Padjen, B. Robaire, B.I. Sasyniuk, M. Warner, D. Varma, E. Zorychta

Assistant Professors – L. Bayne, B. Hales, H. Katz, S. Nattel, M. Quik

Associated Members –P. Boksa, D. Cousineau, P. Major, R. Quirion

Emeritus Professor – M. Nickerson

Physiology

Professor and Chairman – K. Krnjevic *(Joseph Morley Drake Professor of Physiology)*

Professors – R.I. Birks, T.M.S. Chang, M.W. Cohen, B.A. Cooper, L. Glass, P. Gold, W.S. Lapp, M. Levy, M. Mackey, G. Mandl, G .Melvill Jones *(Hosmer Professor of Applied Physiology)*, J. Milic-Emili, C. Polosa

Associate Professors – J. Commissiong, R. Dykes, M.M. Frojmovic, J. Henry, R. Kearney, P. Kongshavn, J. Mortola, P. Noble, J.S. Outerbridge, P. Ponka, D. Watt, A. Wechsler, P. Weldon

Assistant Professors – E. Cooper, R. Douglas, R. Farookhi, H. Galiana, M. Glavinovic, T. Hakim, I. Hunter, N. Lake, D. Roy, B. Segal, A. Shrier, T. Trippenbach

Lecturers – E. Chirito, W. Laskey, G. Tolis

Associated Members – J. Adelson, A. Aguayo, M. Avoli, C. Chan, B. Dubrovsky, S.O. Freedman, A. Fuks, R. Gagnon, C. Gianoulakis, H.L. Goldsmith, D. Goltzman, C.A. Goresky, A. Grassino, D. Guitton, R. Guttman, M. Katz, P. Kelly, P.T. Macklem, B.E.P. Murphy, B. Posner, M. Rasminsky, L. Renaud, S. Rossignol, C. Roussos, M.R. Sairam, A. Sniderman, R.L. Williams

Emeritus Professor – F.C. MacIntosh

Psychiatry

Professor and Chairman – M. Dongier

Professors – M.K. Birmingham, B.M. Cormier, F.R. Ervin, H. Kravitz, S. Lal, E.P. Lester, A.W. MacLeod, A.M. Mann, J.C. Negrete, R. Pihl, R.H. Prince, J.J. Sigal, T.L. Sourkes, G. Weiss

Associate Professors – M.M. Amin, L. Annable, C. Arvanitakis, P. Beck, C.H. Cahn, G. Chouinard, E.E. Corin, F. Cramer-Azima, H. Davanloo, E.G. Debbane, I.S. Disher, S. Dongier-Montagnac, B.O. Dubrovsky, P. Edgell, W.D. Engels, F. Engelsmann, R.B. Feldman, N. Frasure-Smith, A. Ghadirian, B. Grad, H. Grauer, H.A. Guttman, G. Harnois, L. Hechtman, L.G. Hisey, T. Kolivakis, A.P. Lee, H. Levitan, R.E. Lopez, F.W. Lundell, R.C. Monks, G. Morgenstern, H.F. Muller, J. Naiman, N.P. Nair, R. Palmour, J. Paris, J. Pecknold, D. Pivnicki, R.A. Ramsay, B.R. Robertson, J. St-Laurent, L. Vacaflor, R. Yassa, S.N. Young

Assistant Professors – M.P. Adams, P. Assalian, J. Balibeau-Braun, S. Barza, S. Benaroya, D. Bendjilali, C. Benierakis, D.H. Betts, S. Bikadoroff, A.J. Blais, D. Bloom, D. Boisvert, P. Boksa, P.M. Bond, C. Bos, E.J. Brahm, S. Braverman, R.D. Brown, R.H. Bull, C. Cahill, J. Canfield, P. Cervantes, P. Cheifetz, M. Cole, A. Costin, L. Cumberland, H. Cvejic, F. De Carufel, L. Demers-Desrosiers, R. Dent, J.P. Ellman, P. Etienne, H.A. Evans, R. Fontaine, D.E. Frank, M. Gauthier, S.G. Gauthier, K. Geagea, C. Gianoulakis, A. Granich, A.R. Hausfather, J. Henry, R.W. Hill, N. Hoffman, B.R. Hunt, J. Joly, M. Kapuchinska, F. Key, L.J. Kirmayer, V. Kovess, D.J. Kraus, M. Kusalic, R.S. Lakoff, M. Lalinec-Michaud, C. Laroche, S. Leclair, N. Levine, E.D. Levinson, E. Lizondo, G.L. Low, H.P. Malmo, L.M. Martinez, M. Meany, D. McPherson, P.S. McQuade, T.H. Milet, M. Miller, F. Moreira, E. Naltchayan, R. Perreault, G. Peterfy, B. Presser, A. Propst, R. Quirion, O. Rios, J.M. Robbins, P. Roper, N. Ropert, A. Roussos, M. Samy, M.A. Solomon, S. Steinberg, A. Surkis, R. Tempier, J.X. Thavundayil, R. Tirol, G. Turcot, C. Villeneuve, J. Vogel, J. Voyer, J. Waserman, G. Wiviott, G. Zimmerman, C. Zukowska

Lecturers – A. Achim, S. Bachneff, C. Barriga, P. Beaudry, J.P. Bienvenu, J. Boillat, C.N. Boulais, J.M. Bourque, I. Bradley,

J.C. Brutus, T.S. Callanan, N. Campbell, W.H. Campbell, P. Chan, C. Cohen, D.P. Dastoor, E.M. Davis, S. De. Flores, R. Deschamps, Y. Dion, D. Dupont, R. Frank, H. Freedman, R. Fugere, D. Goldman, L. Gomez-Angel, P. Gregoire, G. Gregoriou, O. Grossman, B. Groulx, E. Gutbrodt, R. Hirsh, B. Jean, R. Kachanoff, R. Karmel, R.A. Keller, R. Khalid, M.E. Kiely, I. Kleinman, E. Koritar, F.E. Kristoff, S. Kushnir, R. Kuyumjian, R. Lake-Richards, S. Lamarre, P. Lamoureux, G. Larochelle, G. Lefebvre, R.G. Lemieux, M. Marshall, J. Meiten, T. Mendis, A.F. Meszaros, T. Milroy, E.K. Missala, H. Mohelsky, A.K. Muller, D.P. Nowlis, J. O'Neil, S.M. Perzow, L. Phipps, G. Pierce-Louis, Z. Prelevic, S.M. Renaud, R.M. Richard-Jodoin, A. Ross-Chouinard, G. Savard, A. Sheppard, R.M. Smith, B. Suranyi-Cadotte, G. Tahta, F.C. Tcheng-Laroche, D. Waiser, F.V. Weisz, A.P. Wilner, D. Zamanzadeh, V. Zecherman, P. Zuardi

Associated Members – T.A. Ban, S.Z. Dudek, G.S. Heseltine, V.A. Kral, C. Morand

Emeritus Professors – R.A. Cleghorn, H.E. Lehmann, H.B.M. Murphy

Allan Memorial Institute of Psychiatry

Associate Professor and Director – B.M. Robertson

Radiation Oncology

Associate Professor and Chairman – C.R. Freeman

Professor – M. Cohen

Associate Professors – J.J. Hazel, S.M. Lehnert, W. Mackillop, E.B. Podgorsak, T.N. Roman

Assistant Professors – E. El Khatib, G. Fallone, J.F. Guerra, R. Heese, N.J. Laperriere, B. O'Sullivan, C. Pla, L. Paszat

Lecturers – C. Graveline, M. Pla

Diagnostic Radiology

Professor and Chairman – M.J. Palayew

Professors – R. Ethier, L. Rosenthall

Associate Professors – P. Bret, J.H. Gagnon, B. Hale, R.O. Hill, R. Lisbona, D. Melanson, M.B. Nogrady, A. O'Gorman, V. Sayegh, L.A. Stein, J. Theron

Assistant Professors – A. Arzoumanian, M.E. Azouz, F.M. Boston, F. Bourdon-Conachie, G. Casola, J. Cassoff, J. Chan, G. Dean, V. Derbekyan, R. Dery-Cote, M. Desaulniers, J.M. Dumas, D. Dwyer, P.J. Fitzgerald, M. Goldenberg, R.E. Hanson, M.J. Herba, B.B. Hyams, S. Jequier, N. Just, N.A. Khan, P. Lander, B.J. Lewandowski, A. Lisbona, J. Novales-Diaz, M. O'Donovan, D.R. Patton, T. Peters, M. Pinsky, H. Remy, M.B. Rosenbloom, A. Roy, R. Satin, J. Stern, J. Toth, R.L. Wee, R.L. Williams, R.E. Wilson

Lecturers – V. Adrenyi, A.D. French, A. Glay, J. Glay, R.S. Hidvegi, R. Kimoff, A.H. Latour, J. Lussier-Lazaroff, M.S. Nathens, R.L. Slatkoff, G. Whiteman

Surgery

Professor and Chairman – David S. Mulder

Professors – R.A. Brown, C.J. Chiu, R.L. Cruess, R.K. Daniel, A.R.C. Dobell, M.M. Elhilali, F. Glorieux, F. Guttman, L.G. Hampson, E.J. Hinchey, C.A. Laurin, L.D. MacLean, J.L. Meakins, J.E. Miller, N.S. Mitchell, E.D. Monaghan, B.M.N. Mount, A.R. Poole, H.S. Scott, N.M. Sheiner, H. Shizgal, J.G. Stratford, A.G. Thompson, H.B. Williams

Associate Professors – I. Ajemian, H.E. Beardmore, J.E. Blundell, P.E. Blundell, H.C. Brown, D. Burke, E. Delvin, R. Dykes, M.A. Entin, R.L. Estrada, W. Fisher, C. Gagnon, R.B. Gledhill, P.H. Gordon, A. Hadjipavlou, Y.L. Homsy, A. Hreno, I.M. Laberge, M. Laplante, G.W. Lehman, R.T. Lewis, D.T.W. Lin, R.C. Long, A.H. McArdle, A.P. McLean, J.R. Moore, D.D. Morehouse, J.E. Morin, D.D. Munro, W.L. Ogilvy, J.A. Oliver, N. Poirier, E. Reid, W. Rennie, M.A. Rosman, P.M. Richardson, P.J. Roughley, H.R. Shibata, H.H. Sigman, S.C. Skoryni, A. Spanier, J.F. Symes, E.J. Tabah, Y. Taguchi, M.P. Thirlwell, M. van der Rest, M. Wexler, E. Wynands

Assistant Professors – C.F.D. Ackman, A. Ahmed, P. Belliveau, D. Benetar, B. Brenner, C.E. Brooks, K. Brown, K.H. Chan, B. Charrier, N.V. Christou, A.M. Cloutier, L.B. Conochie, B. Costello, D. Cunningham, I.J. de Domenico, M. Dupré, C. Emond, W. Fish, D. Fleiszer, A. Forse, G.M. Fried, C. Gagnon, E. Golds, I. Gordon, A. Grunfeld, A. Guerraty, N. Halpern, L. Heller, B. Hymans, S.A. Jacobson, C. Kerrigan, J. Keyserlingk, D. Kostiuk, I.M. Laberge, E.M. Lenczner, W.F. Lingard, A. Loutfi, C.A. Milne, J.M. Monson, J.S. Mort, T.N. Nearing, L.T. Nguyen, R. O'Connor, M.I. Park, A.D. Recklies, J. Rodrigues, M. Rubinovitch, E. Said,

C. Schneiderman, G. Schwartz, I. Shanfield, H.D. Stevens, T. Ty, F.M. Wiegand

Lecturers – K. Abikar, S. Aronson, A. Brzezinski, L.P. Coughlin, R. Crepeau, G.A. Daniel, H. Daoud, P. Dubravcik, D.B. Forbes, A. Freedman, L. Heller, K.W. Kan, M. Kerner, I. Kuzmarov, A. Légaré, S.G. MacIsaac, R.A. MacLeod, P. Madore, J. Miller, I. Morency, J.S. Mort, D. Mutch, J.H. Oliver, D.R. Owen, G.J. Pearl, A.S. Popieraitis, T.N. Siller, J.D. Sullivan, C. Sutton, P. Vaktor, D. Wiltshire, S.A. Youssef

Associated Members – C. Chartrand, L. Greenberg, L.A. Stein

Emeritus Professors – F.N. Gurd, D.R. Webster

2 GENERAL INFORMATION

The one hundred and fifty second session of the Faculty will open on August 29, 1985.

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 Centre for Medical Education, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, Humanities and Social Studies in Medicine, Pharmacology and Therapeutics, Physiology, the McIntyre Animal Centre and a number of special research units (e.g. Anesthesia Research, Aerospace, Medical Research, Biomedical Engineering, Artificial Cells and Organs Research Centre, and the McGill Cancer Centre.)

Strathcona Anatomy and Dentistry Building

This building, opened in 1911 houses the Department of Anatomy, the Faculty of Dentistry and the Protein and Polypeptide Laboratory of the Department of Medicine.

Lyman Duff Medical Sciences 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 Biomedical Engineering Unit, Medical Physics Unit, the Departments of Microbiology and Immunology, Pathology and the Meakins-Christie Laboratory. The building has extensive facilities for teaching, research and diagnosis.

The Montreal Neurological Institute

The Montreal Neurological Hospital and Institute are housed in an eight-storey building, situated on University property adjacent to the Pathology Building 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.

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.

The research tradition of the Allan Memorial Institute has continued to the present day with extensive clinical and basic research in psychiatry taking place in the Institute. In addition, undergraduate and postgraduate teaching is carried out across a number of McGill Faculties including Medicine, Nursing, Social Work, Psychology and Occupational Therapy.

Donner Building

The Donner Building for Medical Research, adjacent to the Strathcona Anatomy and Den-

tistry Building, was completed in September 1948 through the generosity of the late William D. Donner of Philadelphia.

The Building is shared by the Faculty of Dentistry and the Division of Surgical Research of the Department of Surgery. It provides research facilities for projects in gastroenterology, immunology, and cancer.

Lady Meredith House

Situated at 1110 Pine Avenue West, this building currently houses Continuing Medical Education, School of Occupational Health, Centre de coordination des ressources de santé (Département de santé communautaire de l'Hôpital général de Montréal) and the Montreal Joint Hospital Institute.

Charles Meredith House

Situated at 1130 Pine Avenue West, this building houses the Mass Spectrometry Unit, and the School of Occupational Health.

Purvis Hall

The Department of Epidemiology and Biostatistics moved into Purvis Hall in October, 1984. This department occupies the entire building. Purvis Hall is situated at 1120 Pine Avenue West, corner of Peel and Pine.

The Lung Function Lab remains at the Lyman Duff Medical Sciences Building, 3775 University Street.

2.2 HOSPITALS

McGill University Teaching Hospitals

There are five 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
Sir Mortimer B. Davis – Jewish General Hospital

The Royal Victoria Hospital is situated on 35 acres of land bordered by Pine Avenue and University Street. Its complex of six pavilions houses a bed complement of 873. The hospital has annual inpatient admissions of over 25,000 and ambulatory services visits (outpatients, emergency and day care) of 424,500. Its resident and intern staff numbers approximately 200 and it provides teaching programs for medical students as well as students of the other health professions.

The Royal Victoria was founded in 1887. Over the years, it has expanded its physical complex to accommodate its clinical, teaching and research activities. The Allan Memorial Institute became the hospital's Department of Psychiatry in the 1940's. The hospital established a Research Institute in 1981 in order to coordinate its many research activities.

The Montreal General Hospital has a bed complement of 785. In a typical year, there are approximately 20,000 admissions and 350,000 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 260 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 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 115 interns and residents. There are also teaching programs for nursing students and other health professionals. The McGill University-Montreal Children's Hospital Research Institute sponsors research and postgraduate education in disciplines related to problems of childhood.

Sir Mortimer B. Davis – Jewish General Hospital is an acute care hospital of 590 beds to which 19,000 patients are admitted in a typical year. During this same period it provided 276,464 consultations in its emergency and outpatient departments. In addition to extensive research activities that 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 vascular surgery. The Lady Davis Institute for Medical Research and the Institute of Community and Family Psychiatry were established in 1968.

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 1881 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, Côte St-Paul, and Pointe St. Charles. There are approximately 1350 admissions per year in the 900 beds of the hospital; and nearly 50,000 outpatient contacts per year.

A new program focuses on all aspects of patients rehabilitation from the Hospital to the community; it includes various day hospitals, day centres, workshops, as well as "alternatives" to long-term hospitalization.

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. Also, residency training in psychoanalytic psychotherapy, as well as in the administrative aspects of psychiatry. Experience can also be obtained in research through the activities of the Douglas Hospital Research Centre. During 1982, the Hospital was designated as the "Montreal World Health Organization Collaborating Centre for Training and Research in Mental Health."

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, tuberculosis and lung cancer clinic as well as the rare type of diseases of the lungs, pleura or chest wall. The hospital contains 124 beds and its facilities include operating rooms, general, special and research laboratories, fully equipped pulmonary function laboratories, physiotherapy, inhalation therapy and all paramedical allied services. Superior radiological services are featured because of the nature of the specialty.

The hospital provides specialized programs and services which include a home care program, adult cystic fibrosis clinic, anti-smoking program, rehabilitation training program for respiratory insufficiency, planned day hospital, Revised Comprehensive Tuberculosis Program and special emphasis on the present challenge of lung cancer including early detection and complete treatment. It maintains an active research program both clinical and basic and conducts a Residency Trainng Program in conjunction with the McGill Programs in Pneumology and Thoracic Surgery.

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 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, Psychiatry and Family Medicine. The Emergency and Out-Patient Department is a very active area serving approximately 100,000 patients per year.

St. Mary's Hospital Centre is an acute care specialized hospital with 414 adult beds and 65 bassinets. The hospital is recognized as a

high risk obstetrical centre, has a progressive Family Medicine Centre and provides numerous highly specialized services, including renal dialysis and oncology, an organized geriatric and psycho-geriatric service and nuclear medicine. Approximately 15,000 patient admissions occur annually, while about 185,000 outpatients are treated in a typical year. The hospital maintains a very active undergraduate and postgraduate training program.

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

2.3 CENTRES

Artificial Cells and Organs Research Centre

This centre concentrates on interdisciplinary research using novel approaches in clinically useful artificial cells and artificial organs. The present research emphasis is on artificial cells, artificial kidneys, artificial liver, detoxifiers, enzyme replacement therapy, biothechnology, artificial blood, immobilization of enzymes, cofactors, cells, and organelles. The members of this centre come from different specialties in McGill ranging from the basic departments of physiology, chemistry, chemical engineering and biomedical engineering to clinical divisions in the McGill teaching hospitals (Royal Victoria, Montreal General, Montreal Children's and the Douglas Hospital). The Centre Office is in the McIntyre Medical Sciences Building.

Centre for Human Genetics

The Centre for Human Genetics provides a corporate base for scientists working on genetical problems related to human beings, in 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 the progress of genetical research and its application to health care. The Centre Office is in the Stewart Biology Building.

McGill Cancer Centre

Putting discoveries to work for patients is the main purpose of the McGill Cancer Centre. Created in January 1978, as a result of a bequest from the estate of Sir Mortimer B. Davis, the Centre coordinates the work of researchers, physicians, epidemiologists and teachers throughout McGill University and its teaching hospitals. The clinical division coordinates patient care and sponsors clinical research connected with cancer. The basic science division is a unit of full-time investigators conducting research on molecular and immunological aspects of cancer. The epidemiology division is involved in studies evaluating the cause of cancer and the quality of care given to cancer patients. The Centre Office is in the McIntyre Medical Sciences Building.

McGill Nutrition and Food Science Centre

Established in 1982 in recognition of the increasing importance of nutrition in clinical medicine, the Centre has a fourfold function. The first is the development and integration of research at the basic and clinical level, by recruitment of investigators to the laboratories of the Centre at the Royal Victoria Hospital, to other locations in the University, and to encourage existing faculty to interact in nutrition-related investigations. The second function is the provision of opportunities for graduates in medicine, nutrition and other disciplines to do graduate and postgraduate research in the laboratories of full-time and associated members. The third is to introduce contemporary nutrition teaching into the relevant levels of the medical curriculum, during residency training and thereafter. An active role in providing reliable information to the public on nutrition-related matters is envisioned. Finally, nutrition consulting activities in the clinical setting are to be developed. The Centre is administratively related to the Faculties of Medicine and Agriculture.

2.4 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 microcatalogues, the traditional card catalogues and the numerous abstracting and indexing services to which the library subscribes. The Library offers a full range of data bases accessible by computer. Chief amongst these is the U.S. National Library of Medicine's MEDLINE and its associated data bases such as TOXLINE, CANCERLIT, and CANCERPROJ. Other relevant data bases provided by the Canada Institute of Scientific and Technical Information, and other suppliers are also accessible on-line. These include BIOSIS, PSYCHOLOGICAL ABSTRACTS-ON-LINE, CHEMLINE and SCISEARCH.

One of the strengths of the Library is its journal collection. Of the more than 170,000 items held, over 111,000 are bound journal volumes and over 2,000 journal titles are currently received. The collection is particularly outstanding in the area of ophthalmology, due in large measure to gifts from the late Dr. Casey A. Wood. Library collections are developed in all fields of clinical medicine and research. Social aspects of medicine, medical anthropology, and medical sociology are also covered in the Library's buying program. The Library purchases all materials recommended by users which fall within the scope of its collection policy.

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 purchased as required by users.

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

The Library is open from mid-September to mid-June from 8:30 to 23:30 Monday to Thursday, from 8:30 to 22:00 on Friday, from 12:00 to 18:00 on Saturday and 12:00 to 18:00 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 and the Osler Room beyond the Camera), the W.W. Francis Wing and the H. Rocke Robertson Rare Book Room.

The collection, consisting of about 34,000 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 through 18th century medical books. In addition, 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.

2.5 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 rest of the McGill community, 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 Étudiants 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, à la communauté McGill en général, 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 répondront aux désirs des étudiants,

4) collaborer avec les Associations des étudiants en nursing, en ergothérapie et réadaptation, et en art dentaire dans la direction de "l'Annexe", notre centre social,

5) s'occupe des activités sportives ou sociales des étudiants en médecine,

6) publie le journal médical de McGill,

7) de façon générale, essaye de fournir les ressources et le personnel afin de rencontrer 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 l' "Admissions Committee". Des renseignements sur nos activités peuvent facilement être obtenus au 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.*

Students in the Faculty of Medicine who demonstrate outstanding performance are recognized through the awarding of prizes, medals and J.W. McConnell Awards. Receipt of an award is permanently recorded on the transcript of each recipient.

In view of the high level of academic performance already achieved by students entering the Faculty of Medicine, scholarships and bursaries are generally awarded by the Faculty on the basis of good standing and financial need. Students requiring financial aid should 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 – from 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 in the Faculty of Medicine. Preference is given to women. Awards vary according to need. 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 – income from a bequest of $100,000 from the late Dr. Henry Albert Beatty provides scholarships for undergraduate and graduate students in the Faculty of Medicine. 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 – from a bequest of $20,000 from the estate of the late C.F. Bellam and awarded on the basis of financial need to students 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 from the late Joseph Israel Bennett provides an annual bursary for 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 income provides bursaries to help deserving students in the Faculty of Medicine.

NAT CHRISTIE SCHOLARSHIPS – established in 1982 by the Nat Christie Foundation, an annual gift of $50,000 provides scholarships for undergraduate medical students valued at a minimum of $1,200 each. Awarded on the basis of academic standing and financial need.

CIBA-GEIGY SCHOLARSHIP – a $2,000.00 scholarship awarded annually by CIBA-GEIGY Canada Limited to the student whose work in the Summer Research Bursary Program is judged to be the best by the Faculty Scholarships Committee.

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.

BOWMAN CORNING CROWELL AWARD – established in 1979 by a bequest from Frances B. Crowell. To be awarded to an undergraduate medical student engaged in research in Pathology.

JAMES H. CUMMINGS SCHOLARSHIPS – two or more entrance scholarships bequeathed by the late James H. Cummings are awarded at the discretion of the Faculty of Medicine.

ANNIE DIAMOND BURSARIES – established in 1969 for medical students with financial need.

JAMES ECCLES SCHOLARSHIP – established in memory of Mr. James Eccles, a member of the Board of Governors. $500 is awarded for high academic standing to a student entering the final year. Awarded by the University 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 any medical undergraduate student.

SIMON AND ROSALIE HALPERN MEMORIAL SCHOLARSHIP – established by the late Dr. Fanny G. Halpern in memory of her parents. The sum of $400 is available to students of the Roman Catholic or Jewish faith who have distinguished academic standing and financial need. The recipient 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. Preference is given to graduates of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

KEITH HUTCHISON MEMORIAL SCHOLARSHIPS – two or more scholarships, in memory of the late Dr. Keith Hutchison. Awarded on the basis of distinguished academic standing and need; tenable in any year. The recipient in any 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 the late Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Tenable in the second, third, or fourth year; and awarded on the basis of distinguished academic standing and financial need to an applicant who intends to enter surgical practice. The recipient in any session may re-apply for the following year.

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. Based upon distinguished academic standing and financial need; tenable in second year and may be renewed.

KINCH MEMORIAL BURSARY – established by Miss Dia Joyce in memory of Mr. and Mrs. C.H. Kinch to assist medical undergraduates.

THE FREDERICK PENTON LOFTUS LANE BURSARY OR SCHOLARSHIP FUND – established in 1979 by a bequest from Esther M.E. Lane. The income provides one or more bursaries or scholarships for Canadian medical undergraduates.

DR. CLARKE K. McLEOD MEMORIAL SCHOLARSHIP FUND – established in 1979 by a bequest from Dr. Clarke K. McLeod, M.D., C.M., 1927 to provide scholarships for undergraduate medical students.

JAMES O. MEADOWS AND MARIA MEADOWS AWARDS – income from a bequest of $200,000 from the late Dame Maria Cowan Meadows provides awards for undergraduate and graduate students in the Faculty of Medicine who are engaged in research. Preference is given to candidates working in cancer research but worthy candidates in other areas of medical or surgical research are also considered. Application is made 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 to support research in the field of therapeutics.

THE RONALD DOUGLAS NAYMARK AWARD – established by the Medical Class of 1984 in memory of Ronald Douglas Naymark, B.Sc., M.D.,C.M.(McG.), this award is given to that member of the graduating class who most enriches the life of the class in the eyes of his or her peers. The award seeks to recognize an individual who inspires trust and confidence, optimism and enthusiasm in his or her medical colleagues. The individual is a participant in class activities and is in satisfactory academic standing.

SAMUEL ROSENFELD BURSARY – established by Mrs. Ida Rosenfeld Letovsky in memory of her late husband, Mr. Samuel Rosenfeld, to support worthy undergraduate medical students.

REUBEN ROSS MEMORIAL AWARD – the income from a bequest of the late Reuben Ross provides an annual award to medical students in 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 in financial need.

DAVID E. AND RONNIE SCHOUELA MEMORIAL SCHOLARSHIP – established by the family in 1980 to assist a first year medical student. Awarded either on the basis of financial need or for participation in the Summer Research Program.

DR. JACOB C. SCHWARTZMAN SCHOLARSHIP – established in 1983 in memory of Jacob C. Schwartzman, M.D., C.M., F.A.C.S., by his family and friends. This tuition scholarship is to be awarded each year by the Faculty Scholarships Committee to a student in the Faculty of Medicine on the basis of academic standing and financial need. Candidates must be Canadian citizens or permanent residents. A stipulation of the Scholarship is that each recipient agree to make contact with the family of Helaine Livingstone, B.A., McGill, 1960, who organized the Scholarship in memory of her father.

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, deserving student engaged in summer work in cancer research. Awarded with the approval of the National Council of Jewish Women.

ROBERT SHARWOOD MEMORIAL SCHOLARSHIP – tenable in any year of the undergraduate course in Medicine. It is awarded on the basis of distinguished academic standing and financial need. The recipient 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 family and friends in memory of the late Allan Jay Solomon, M.D., C.M. The income provides an annual award tenable in any year; awarded for distinguished academic standing and financial need.

BRUCE SMITH BURSARY FUND – from a bequest by the late Dr. Bruce Stewart Smith to enable worthy students with financial need to complete medical training at McGill University.

FREDERICK SMITH MEMORIAL SCHOLARSHIP – established in memory of Dr. Frederick Smith, Dean of the Faculty of Medicine, 1947-49. $250 is awarded to a student with high academic standing entering the second year. Awarded by the University Scholarships Committee upon the recommendation of the Faculty of Medicine Scholarships Committee.

ROBERT ROLF STRUTHERS BURSARY – the income from a bequest of the late Robert Rolf Struthers (Medicine 1918) provides support for a needy Canadian student entering third year Medicine.

DR. MILTON C. AND NINA E. WILSON AWARD – established in 1970 by a bequest from the late Dr. Milton C. Wilson. The annual income provides support for undergraduate or postgraduate students in the Faculty of Medicine who are in financial need.

DR. JOSEPH TANZMAN AWARD – a bequest establishing an award in honour of Dr. Joseph Tanzman, M.D., C.M., 1927. Preference is given to a medical student from New Brunswick but if there is no such candidate the award may be given to any deserving student in the Faculty of Science. Awarded by the Scholarships Committee of the Faculty of Medicine or the Faculty of Science.

UPJOHN ACHIEVEMENT AWARD – a $300 prize and a plaque to be awarded to the student whose paper given at the Annual Student Research Day is judged by a Faculty panel to be the best in terms of scientific merit. The name of the recipient will be inscribed on a plaque which will be held by the Faculty.

GEORGE WIOR FOUNDATION BURSARIES – three bursaries in the amount of $2,500 each, awarded annually to students in financial need with good academic standing. One bursary to a student in each of second, third and fourth year. The bursary is renewable only if academic standing is maintained.

3.2 PRIZES

SHIRLEY NANCY ENDMAN PRIZE – established in 1982 by Louis Edman in memory of his wife. A prize of $70 is awarded to the student who obtains the highest mark in the cardiovascular section of the course in Medical Physiology.

MR. AND MRS. J.A. BESNER PRIZE – a prize of approximately $475 is awarded to the student obtaining the highest aggregate standing in the Link Period of the medical undergraduate course.

H.S. BIRKETT MEMORIAL PRIZE IN OTOLARYNGOLOGY – established by Miss Winifred Birkett in memory of her father, the late Dr. H.S. Birkett, formerly Professor of Otolaryngology. A prize of $375 is given to the student who has shown outstanding performance in Otolaryngology.

JAMES Q. BLISS ANNUAL BOOK AWARD – awarded to the student in the First Year who obtains the highest standing in Physiology.

JOSEPH MORLEY DRAKE PRIZE – founded by the late Joseph Morley Drake, M.D., a prize of $300 is awarded to the most outstanding student in Pathology.

EPIDEMIOLOGY BOOK PRIZE – awarded to the student who obtains the highest standing in Epidemiology and Health in Year I of the medical curriculum.

ROBERT FORSYTH PRIZE – bequeathed by the late Miss Jeanie Forsyth, a prize of $200 is awarded annually to the graduating student who has shown particular ability in all branches of Surgery.

CHARLES E. FROSST MEDICAL PRIZE AND BRONZE MEDAL – a bronze medal and prize of $500 are awarded annually to the student who has shown most promise in the field of Pharmacology.

CLAUDE GIROUD PRIZE IN PEDIATRICS – established in 1981 in memory of Dr. Claude Giroud, Physician-Endocrinologist of the Montreal Children's Hospital and McGill University. $175 awarded on the basis of scientific merit to the author of a paper suitable for publication in a pediatric journal. The prize is open to medical students and to residents and fellows in pediatric training. The name of the recipient will be inscribed on a plaque located in the Claude Giroud Memorial Library. Awarded by the Faculty of Medicine.

ELIZABETH ANN MUNRO GORDON PRIZE – established in memory of Dr. Elizabeth Ann Gordon. Awarded to the member of the graduating class, with preference to a woman student, who in the opinion of the Faculty presents in every respect the highest qualifications to practise the profession.

HARRY S. GROSS MEMORIAL PRIZE – 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, a prize of $125 is awarded to the student in the Link Period with the highest standing in Surgery.

JOSEPH HILS PRIZE – founded by the late Dr. Joseph Hils, of Woonsocket, R.I., a prize of $175 is awarded to the student obtaining the highest standing in Pharmacology in Year II.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE – founded by Mrs. Campbell Howard in memory of the late Dr. Campbell P. Howard, Professor of Medicine at McGill, a prize of $100 is awarded to the student who has shown the most consistent excellence in written case reports in Clinical Medicine in the Link Period.

F. SLATER JACKSON PRIZE – founded by Mr. and Mrs. H.F. Jackson in memory of their son, the late F. Slater Jackson, M.D., a prize of $175 is awarded to the student with the highest standing in Histology.

CAMPBELL KEENAN MEMORIAL PRIZE IN CLINICAL SURGERY – established by the late Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan a prize of $100 is awarded to the graduating student 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. Information may be obtained from the Scholarships Office, Registrar's Office.

McGILL ALUMNAE SOCIETY PRIZE – $100, presented upon graduation to a distinguished student for excellence and high academic standing. Preference given to women students.

FRANCIS MCNAUGHTON PRIZE – established in 1980, a prize of $200 and a book are awarded to the student with the highest standing in the Central Nervous System course.

MONTREAL CHILDREN'S HOSPITAL CUSHING MEMORIAL PRIZE – a prize of $250 is awarded to the student with the highest standing in Pediatrics.

PRIZE IN MEDICAL ETHICS AND JURISPRUDENCE – established in 1953, a prize of $225 is awarded to the fourth year medical student who writes the best essay in fulfillment of the requirements of the course in Medical Ethics and Jurisprudence.

PSYCHIATRY PRIZE – a prize of $200 is awarded on the recommendation of the Department of Psychiatry to the student who has shown the most promise in this field.

SAMUEL ROSENFELD PRIZE – a prize of $125 is awarded to the student with the highest standing in Medical Microbiology.

MONA BRONFMAN SHECKMAN PRIZE – a prize of $275 is awarded to the student with the highest academic standing in Psychiatry.

E. DAVID SHERMAN AWARD IN GERIATRIC MEDICINE – a prize of $300 is awarded to the most outstanding student in the field of clinical geriatric medicine.

ALEXANDER D. STEWART PRIZE – founded by the late W.Grant Stewart (Arts 1885, Medicine, 1888) in memory of his brother the late Alexander D. Stewart (Medicine, 1888). A prize of $250 is 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.

MARY AND LOUIS STREICHER PRIZE – established in 1980, a prize of $150 is awarded to the student with the highest standing in Biochemistry in Year I of the medical curriculum.

SUTHERLAND PRIZE – founded in 1878 by the late Mrs. Sutherland in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in the Faculty. A Prize of $250 is awarded to the student who obtains the highest aggregate standing at the end of Year I of the medical undergraduate curriculum.

J. FRANCIS WILLIAMS PRIZE IN MEDICINE AND CLINICAL MEDICINE – founded by the late J. Francis Williams, M.D., a prize of $500 is awarded to the student obtaining the highest standing in the Internal Medicine Clerkship of the medical curriculum.

3.3 MEDALS

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. It is awarded to the student graduating with the highest aggregate standing in the entire medical curriculum.

WOOD GOLD MEDAL – endowed by Casey A. Wood, M.D., LL.D. in memory of his grandfather, Thomas Smith Wood. It is awarded for the most outstanding clinical performance achieved by a student in the Clerkship Period. 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. Any woman medical student, first year intern or graduate student may 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 to provide loans to deserving medical students.*

BOSWELL JAMES LOAN FUND – established in 1943 by Dr. A. Boswell James to provide loans for 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 to American students.*

ALEC AND SYLVIA DOLLIN LOAN FUND – established in 1965 by Mr. Alec Dollin to provide loans for medical students.*

KELLOGG LOAN FUND – established by the Kellogg Foundation. It provides loans up to a maximum of the tuition fees in any one year. Available to students in good standing and with financial need. Application and regulations are as for other loan funds of the University.*

LACEY LOAN FUND – established in 1962 by a donation from Mrs. Herbert Van Devanter Lacey, Cheyenne, Wyoming, primarily to aid medical students from the State of Wyoming. It may however 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 are not to exceed $700 per year.

GEORGE W. MERCK MEMORIAL LOAN FUND – established in 1960 by the Merck Company Foundation to provide loans for undergraduate medical students, interns and residents.

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 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. It is available to medical students.*

*Apply to Student Aid Office.

4 PROGRAMS OF STUDY, ADMISSION AND CURRICULUM

4.1 UNDERGRADUATE PROGRAMS OF STUDY AND ADMISSION

The Faculty of Medicine offers Four Year, Five Year and Advanced S nding programs of undergraduate study.

REQUIREMENTS FOR ADMISSION

Four Year Program

Applicants must have received, or be in the final year of a course of study leading to, a Bachelor's degree at a recognized college or university. Successful candidates must be in receipt of the Bachelor's degree by the time of registration for the first year of the medical curriculum.

Requirements:

General. Although the Faculty attempts to ensure by means of the specific requirements listed below that all students have an adequate preparation in science, it also wishes to encourage students from a variety of backgrounds to select medicine as a career. Prospective applicants are therefore advised to pursue courses of study, whether in the natural or social sciences or the humanities, which appeal to them and which have as their aim a broad education and intellectual training rather than merely anticipating the medical curriculum. These courses of study should include English literature and composition and mathematics.

Specific. One full year (2 semesters) university level course in each of the following:
Biology, including cellular and molecular
General Chemistry, with laboratory work
Organic Chemistry, with laboratory work
Physics, with laboratory work

A full year university level course in human and/or mammalian Physiology, with laboratory work, is recommended.

Medical College Admission Test. **All applicants to the four year program must have taken the new MCAT by September 21, 1985.** This test is conducted by the American College Testing Program (P.O. Box 414, Iowa City, Iowa 52240) and is given each year in the spring and fall at various centres in Canada, the U.S. and other foreign countries. Registration material may be obtained from the address given above or, as of February 1985, from the Office of the Associate Dean for Admissions, Faculty of Medicine. The MCAT test dates for 1985 are April 27, 1985 and September 21, 1985. For those who plan to write the test in April 1985 registration deadlines are March 22, 1985 to sit the exam in foreign test centres and March 29, 1985 for test centres in Canada, the U.S. and Puerto Rico. For those who plan to write the test in September 1985 registration deadlines are August 16, 1985 for foreign test centres and August 23, 1985 for test centres in Canada, the U.S. and Puerto Rico. Applications must be postmarked by the deadline dates; **late applications will not be accepted.** Candidates are advised to mail well in advance of the deadlines since experience shows that packets may be postmarked only a day or two after they have been placed in a mail box.

The MCAT is designed to measure specific science knowledge and its application in solving related problems and to provide a measure of learning and reasoning skills considered important for the study and practice of medicine. The MCAT Student Manual describes the test in detail and may be obtained by writing: Membership and Publication Orders, AAMC, Suite 200, 1 Dupont Circle, N.W. Washington, D.C. 20036. For applicants whose first language is not English, this fact will be taken into account in assessing the results of the test.

Five Year Program

Prospective applicants who are citizens or permanent residents of Canada living in the Province of Québec and who are enrolled in the final year of the Health Sciences Profile of the Québec Colleges of General and Professional Education (CEGEP) are eligible to apply for the five year program. Students in the Pure and Applied Sciences Profile become eligible to apply by taking, in addition to the courses required for this profile, Biology 401 and Chemistry 202.

Required courses: Biology 301, 401; Chemistry 101, 201, 202; Mathematics 103, 203; Physics 101, 201, 301. Recommended course: Chemistry 302; those who do not take this course in CEGEP will be required to take an equivalent course in the first year of the

program. **The Medical College Admission Test in NOT required for entry into the five year program.**

CEGEP students who have formerly been enrolled in college or university programs or in post secondary technical schools, within or outside of the Province, are not eligible to apply. Prospective applicants who have completed CEGEP and are registered in an undergraduate degree program must fulfill the requirements for, and make application to, the four year program.

In the first, medical preparatory (Med P) year of the program students are registered in the Faculty of Science. In addition to completing the specific requirements for entry into the four year program, they must take a number of optional courses selected for the purpose of broadening and enriching their education. Following the successful completion of this year, determined by a Promotions Committee, students proceed into the first year of the four year program.

It should be noted that there are more applicants for the five year program than can be accepted. Unsuccessful applicants are ordinarily well qualified for admission into other undergraduate degree programs (e.g. B.A., B.Sc.). All applicants are advised to select an alternative program of study in order that, their application be forwarded for consideration if they are not accepted in Medicine. The alternative program can be selected with the aim of satisfying the requirements for entry into the four year program but it is emphasized that in doing so the general, as well as the specific, requirements for this program should be considered. Application for an alternative program can be made by indicating a second choice on the application for the five year program.

Advanced Standing

Occasional vacancies created by attrition allow a very few students currently registered in another medical faculty or school to be accepted into the beginning of Med II (September of second year) or the beginning of the Link Period (March of second year) of the curriculum. Advanced standing cannot be granted beyond these levels. Prospective applicants should be aware of the fact that the attrition rate is extremely low.

Application is made by completing the application form available from the office of the Associate Dean for Admissions. Documents required in addition to those that must be submitted by all applicants include: OFFICIAL transcripts of medical education to date supplemented by a list of courses currently being taken, a calendar of the faculty or school being attended which contains a description of the courses of study, and a letter of recommendation from the Dean of the faculty or school being attended. The faculty reserves the right to determine the equivalence of courses and examinations already completed and to require further examinations, either in individual subjects or comprehensives, where necessary.

Students making application from medical faculties or schools outside of Canada and the United States must write the Medical Science Knowledge Profile examination. Applicants are responsible for making the arrangements to write the examination and to have the results sent to the office of the Associate Dean for Admissions. Information and application forms can only be obtained by writing the: American Association of Medical Colleges, 1776 Massachusetts Ave. Suite 300, Washington, D.C. 20036, U.S.A.

The language of instruction for all programs of study is English.

APPLICATION FOR ADMISSION

Application for admission to either of the three programs is made on application forms available only from the office of the Associate Dean for Admissions, Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. Telephone (514) 392-4232. Application forms for entry in September 1986 will be available in August 1985. Applications must be completed according to the instructions that accompany the forms. Deadlines for receipt of applications are December 1, 1985 for applicants whose residence is outside of Québec and March 1, 1986 for residents of Québec. Students currently attending McGill but whose home residence is outside of the province are not considered to be Québec residents. Conversely, Québec residents attending universities outside the province still qualify as Québec residents.

All documents required for application, including OFFICIAL transcripts, MCAT scores (four year program only), autobiographical letter and letters of reference must be submitted by these deadlines. The material submitted becomes the property of the university and cannot be returned. A non-refundable fee of

McGILL FACULTY OF MEDICINE CURRICULUM

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Term 1			Term 2			Term 3			Term 4	Vacation	
Physiology 205 hours											
Introduction to the Patient 74 hours											
Anatomy 190 hours											
Biochemistry 120 hours											
Histology 150 hours						Pathology 58 hours					
						CNS 92 hours					
						Emergency 10 hours			Epid. 21 hrs		
									Reprod. 28 hrs		

Year 1
41 weeks

MED I
948 Hours

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Term 1			Term 2			Link Period			Vacation		
Special pathology 144 hours						ICS 4 weeks	Medicine 10 weeks				
Pharmacology 120 hours											
Microbiology & Inf. Disease 120 hours											
Introduction to the Practice of Med. 48 hours											
Genetics 24 hours			Psychiatry 36 hours								
Nutrition 24 hours			History of Medicine 20 hours								

Year 2
40 Weeks

MED II
536 Hours

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Link Period					Clerkship						
Neur. 4 weeks	Surg. 4 weeks	Ob.-Gyn. 4 weeks	Anaes. Radiol. 4 weeks	Vac. 2 weeks	Option 4 weeks	Orien-tation 2 weeks	Medicine 8 weeks		Pediatrics 8 weeks		Surgery 8 weeks	Vac. 4 weeks
Whole-Class Teaching Time												

LINK PERIOD
34 Weeks

Year 3
46 weeks

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Clerkship								Ethics & Prof. Dev.	
Psychiatry 8 weeks	Ob.-Gyn. 6 weeks	Primary Care 6 weeks	Elect. 4 weeks	Elect. 4 weeks	Elect. 4 weeks			Public Health	
								Epidemiology	
								Ethics & Jurispr.	
								Stims	
								GRADUATION	

CLERKSHIP
58 Weeks

Year 4
40 weeks

ESPD
6 Weeks

January 1985

fifteen dollars payable in Canadian funds to McGill University (certified cheque or money order) must accompany all applications; applicants currently registered as McGill students are not required to pay this fee.

A maximum of 160 students are accepted into the first year class. Students accepted in 1984 had the following academic profile (mean score): GPA 3.67 (4 point scale); MCAT: Biology 11.7, Chemistry 10.98, Physics 10.85, Science Problems 11.01, Skills Analysis Reading 9.5, Skills Analysis Quantitative 9.7 (each on a 15 point scale).

The Faculty does not accept part-time students.

PROCEDURES FOR SELECTION AND NOTIFICATION

The Admissions Committee bases its selection upon academic achievement and intellectual and personal qualities. Applications are carefully reviewed and selected applicants are invited for interviews. These are held either in the faculty offices or, for those resident in the western half of North America who indicate their preference in a letter, in Vancouver or San Francisco. Entrance is determined by evaluation of the whole application, including the results of the interviews.

Applicants will be informed by letter as soon as possible after March 31 of the decision of the Committee. Acceptance is conditional upon the successful completion by the time of registration of the remaining requirements for admission.

Successful applicants must respond within two weeks to the offer of a place in the entering class. **Notification of acceptance must be accompanied by a deposit of $100, which will be applied against tuition. The deposit is refundable up to July 1.**

4.2 REGISTRATION

All first year students and advanced standing students entering Med II must register on a date still to be decided in late August 1986. An Orientation Program follows registration so that attendance is required throughout the day.

Returning students must register in advance by the announced deadlines or pay a late registration fee.

4.3 FEES AND STUDENT SERVICES

The University reserves the right to change without notice the published scale of fee if, in the opinion of the Board of Governors, circumstances require. Fees are refundable under the conditions described in the *General Announcement*.

University Fees

1. Four Year Program (each year): tuition $719, Student Services $95, Students' Society $57, liability insurance $6, new Athletic Facilities $15. Non-Canadian students are required to pay tuition of $5800. Non-Canadian students must also enrol in a Student Health and Accident insurance plan (single students $365; family $743).

2. Repeating Students
   Students repeating a year pay full fees.

3. Ad eundem Fee
   Students entering the medical curriculum in any year above the first pay a special ad eundem fee of $10.

4. Application for Graduation Fee
   Students who expect to graduate at the Spring or Fall Convocation must file an application for graduation. Application forms will be mailed to eligible students and the completed form together with a fee of $25 must be returned to the Registrar's Office by April 1 for Spring Convocation and by October 15 for Fall Convocation. It is the responsibility of prospective graduates to inform the faculty records office that they expect to graduate it under to ensure that their names are included in the graduation list.

General Regulations

1. Students are required to make a down payment of $446 on fall term fees by August 15th or they will not be permitted to register. Instructions for paying fees in advance will be mailed separately to returning students and together with information concerning admission to new students. Single non-Canadian students must make a down payment of $3352; students requiring family medical insurance must make a payment of $3756.

2. Students who have been granted a scholarship, bursary or student loan and who require this for payment of the fall term fees

must, in advance of registration, obtain permission from the Student Aid Office to delay payment of fees.

3. The winter term fees are due on or before January 15. The statement for winter term fees will give a breakdown of all charges.
4. Interest is charged at the prime rate (Bank of Montreal) plus 1% on all overdue balances calculated from the due date of each fee instalment.
5. All charges are payable in Canadian funds.

If tuition fees and other outstanding charges such as residence fees, library fines and McGill loans are not paid by the specified dates transcripts of academic record, diplomas and permission to register will be withheld.

Microscopes

In order to ensure that each student is adequately equipped for the microscopic work in histology, microbiology and pathology a binocular microscope is provided for all students in first and second year. A rental fee sufficient to cover the cost of maintenance and repairs is charged.

Board and Residence

Details concerning University Residences and Off-Campus Housing are given in the *General Announcement.*

Health Service and Student Services

Details of the Health Service and other Student Services are given in 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

The Primary objective of the medical curriculum is to help the student acquire the knowledge, skills, attitude and values essential for the practice of medicine.

DESCRIPTIVE OUTLINE OF THE CURRICULUM IN THE FACULTY OF MEDICINE

The McGill curriculum is four years in duration and consists of 18 months of primarily Basic Sciences followed by two and a half years of the Clinical Sciences.

CORE is that portion of the curriculum compulsory for all students. It provides the minimal and essential experiences students require to prepare themselves for the practice of medicine. CORE includes basic biological sciences, behavioural and social sciences and many of the clinical disciplines. It is taught in all four years of the curriculum.

In addition, there is ELECTIVE time in the curriculum whereby students are able to choose an appropriate experience either from a list of faculty designated courses or designed by the students themselves. These electives occur mostly in the final year and may be taken either at McGill or outside the University. Each student has 16 weeks of elective time.

CURRICULUM

The four years of the curriculum are divided into five stages:

MED I – September - June of First Year
MED II – September - March of Second Year
LINK PERIOD – March of Second year - February of Third Year
CLERKSHIP – February of Third Year - March of Fourth Year
ETHICS, SCIENCE & PROFESSIONAL DEVELOPMENT – March - April of Fourth Year

MED I

Med I comprises all of first 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 Pathology). Behavioural Science and Epidemiology are the core non-biological sciences given in Med I. In addition, short courses in Emergency Medicine, and Reproductive Medicine are offered in the first year.

MED II

Abnormal Biology is introduced in the first seven months of second year (Pathology, Microbiology and Pharmacology). In addition, courses are offered in Genetics, Nutrition and the Basic Science of Psychiatry. Behavioural Sciences are continued as the student begins developing communication skills with the patient. A History of Medicine Course is given here.

LINK PERIOD

The Link Period consists of three main parts:

1. The Introduction to Clinical Sciences Course.
2. The Pre-Clerkship clinical rotations in Medicine (10 weeks), Surgery (4 weeks), Obstetrics and Gynecology (4 weeks), Anaesthesia (2 weeks), Radiology (2 weeks), Neurology (4 weeks) and Options (4 weeks).
3. Whole-class teaching time (208 hours of didactic teaching time given throughout the link period). This includes teaching in Medicine, Pediatrics, Surgery, Psychiatry, Ophthalmology, and Otolaryngology.

CLERKSHIP

The Clerkship begins in February of the third year and concludes in March of the Fourth Year. The 56 weeks of the phase are divided as follows:

Medicine	8 weeks
Surgery	8 weeks
Pediatrics	8 weeks
Psychiatry	8 weeks
Obstetrics and Gynecology	6 weeks
Primary Care or Geriatrics	6 weeks
Elective	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 MED 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.

ETHICS, SCIENCE & PROFESSIONAL DEVELOPMENT (ESPD)

Courses are given as follows:

1. Ethics and Jurisprudence	40 hours
2. Public and Community Health	35 hours
3. Epidemiology	25 hours
4. Selected Topics in Medical Science	36 hours

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.

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. Any of the rules and regulations published here or in previous calendars 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. Faculty policy is formalized in a Policy Booklet available in the Dean's Office, Faculty of Medicine.

Students are reminded that cheating in an examination, including examinations administered by the Faculty on behalf of external agencies and unethical conduct on clinical rotations is considered a serious offence which

could lead to suspension or expulsion from the University.

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 Med II (March of the second year)

Evaluation Session III
The Link Period

Evaluation Session IV
The Clerkship and ESPD Period.

Evaluation Procedures: The Student Promotions Committee may review the academic record and total performance of any student either at the end of an Evaluation Session or periodically when deficiencies are noted.

The entire academic record of a student who fails one or more subjects will be automatically reviewed by the Student Promotions Committee. The committee may choose from three options: a) require supplemental examination(s) or remedial rotation(s); b) require repetition of an entire Evaluation Session or c) require withdrawal from the Faculty. The Faculty reserves the right to require the withdrawal of any student at any time, who is considered incompetent by the Promotions Committee.

EVALUATION SESSION I

A student is not allowed supplemental examinations in more than two major courses and one minor course or one major course and two minor courses. A student must also maintain an average of 60% in all subjects in order to be permitted a supplemental examination. A student who fails more than two major courses and one minor course or more than one major course and two minor courses will be required to repeat the Evaluation Session or retire from the Faculty, as decided by the Student Promotions Committee.

EVALUATION SESSION II

A student is not allowed supplemental examinations in more than one major course and one minor course, or two minor courses. A student must also maintain an average of 60% in all subjects in order to be permitted a supplemental examination. A student who fails two or more major courses in Evaluation Session II will be required to either repeat the Evaluation Session or retire from the Faculty, as decided by the Student Promotions Committee.

EVALUATION SESSION III

A student is not allowed more than two remedial rotations or supplemental examinations. A student who fails more than two rotations or examinations will be required to repeat the Evaluation Session or retire from the Faculty as decided by the Student Promotions Committee.

EVALUATION SESSION IV

In Evaluation Session IV, a student is not allowed more than one remedial rotation in major courses. A student who fails more than one major course in Evaluation Session IV will be required to repeat the Evaluation Session or retire from the Faculty, as decided by the Student Promotions Committee.

FAILURE OF SUPPLEMENTAL EXAMINATIONS OR REMEDIAL ROTATIONS

A failure in the supplemental examination or remedial rotation of a major course will require the student to repeat the Evaluation Session. In addition, evidence of satisfactory completion of minor courses is also required for promotion to the next session. Failure in any subject during a repeat Evaluation Session will result in automatic retirement from the Faculty. A student may not repeat more than one evaluation session in the curriculum.

The results of all supplemental examinations and the evaluation result 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 Student 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.

Evaluation System: The Faculty operates on a pass/fail system. This in effect means that students' standings, class rank, and grades in courses and rotations are not available to any external agency such as hospitals, universities or licensing bodies. For purposes of internal use students' numerical grades are used only in the calculations required for awards, prizes, academic bursaries and faculty medals.

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, Pre-clerkships in Surgery, Medicine, Obstetrics and Gynecology, Anaesthesia, Radiology & Neurology and Clerkships in Pediatrics, Medicine, Surgery, Psychiatry, Obstetrics & Primary Care.

Minor Courses: Evidence of satisfactory completion before being considered for promotion to the next phase is required for the following courses: Introduction to the Patient, Introduction to the Practice of Medicine, Emergency, Genetics, Reproductive Medicine, Nutrition, Basic Science of Psychiatry, Introduction to Clinical Sciences, Introduction to Pediatrics, Introduction to Psychiatry, Ethics, Community Health, STIMS, and all electives.

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) Candidates 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's Faculty of Medicine.

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 clearing house designed to help final year medical students obtain the internships of their choice and to help hospitals and internships 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 agent of students on the instructions embodied in the confidential list of all the internships for which they have 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 practise medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to 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 qualifi-

cations 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, candidates will normally be required to pass an examination set by the Office de la langue française, unless they 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. Examinations take place every three months and may be attempted an unlimited number of times.

Further information may be obtained by writing to: Office de la langue française, Tour de la Bourse, 800 square Victoria, Montréal, P.Q., H4Z 1G8. 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 – Registrar, 9901 – 108th St., Edmonton, AB T5K 1G9

BRITISH COLUMBIA – Registrar, 1807 West 10th Ave., Vancouver, BC V6J 2A9

MANITOBA – Registrar, 1410-155 Carlton St., Winnipeg, MB R3C 3H8.

NEW BRUNSWICK – Registrar, Medical Council of New Brunswick, P.O. Box 2313, Postal Station "C", Crown Street, Saint John, NB E2L 2X6

NEWFOUNDLAND – Registrar, 47 Queens Rd., St. John's, NF A1C 2A7

NOVA SCOTIA – Registrar, Lord Nelson Arcade, Suite 211, 5675 Spring Garden Road, Halifax, NS B3J 1H1

ONTARIO – Registrar, 80 College St., Toronto, ON M5G 2E2

PRINCE EDWARD ISLAND – Registrar, 206 Spring Park Rd., Charlottetown, PE C1A 3Y9

QUÉBEC – President-Secretary General, 1440 Ste. Catherine St. West, Suite 914, Montréal, PQ H3G 1S5

SASKATCHEWAN – Registrar, 211 – 4th Ave. S., Saskatoon, SK S7K 1N1

Medical Council of Canada

In order to take the examination of the Medical Council of Canada, candidates must present a certificate from the Registrar of a Provincial Medical Board to the effect that they hold 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, ON K1G 3H7.

4.9 GRADUATE TRAINING PROGRAMS 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 *Announcement of Graduate Studies and Research, Section D, 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, the Shriners Hospital for Crippled Children, l'Institut de Recherche Clinique and the Lady Davis Insti-

tute 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 chairman of the department in which candidates wish to receive 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

Core Courses

MED I

HUMAN ANATOMY 504-131M. 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*, 8th ed. (Williams and Wilkins, 1983); or Carmine D. Clemente, *Anatomy, A Regional Atlas of the Human Body*, 2nd ed. (Urban & Schwarzenberg) 1981; and one of the following: K.L. Moore, *Clinically Oriented Anatomy*, 1st ed. (Williams and Wilkins, 1980); R.S. Snell, *Clinical Anatomy for Medical Students*, 2nd ed. (Little, Brown & Co, 1981); E. Gardner, D.J. Gray and R. O'Rahilly, *Anatomy*, 4th ed. (W.B. Saunders, 1975); W.H. Hollinshead, *Textbook of Anatomy*, 3rd ed. (Hoeber, 1974); R.T. Woodburne, *Essentials of Human Anatomy*, 7th ed. (Oxford University Press, 1983).

EMBRYOLOGY. This course of human developmental anatomy, including normal development and congenital malformations, is integrated with the course in Human Anatomy.

Texts: J. Langman, *Medical Embryology*, 4th ed. (Williams and Wilkins 1981) or K. Moore, *The Developing Human*, 3rd ed. (Saunders, 1982).

HISTOLOGY 504-121M. 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 and D.H. Cormack, *Histology*, 8th ed. (Lippincott, 1979); W. Bloom and D.W. Fawcett, *A Textbook of Histology*, 10th ed. (Saunders, 1975); L. Weiss, *Histology Cell and Tissue Biology*, 5th ed. (Elnesier Biomedical); W.M. Copenhaver, D.E. Kelly and R.L. Wood, *Bailey's Textbook of Histology*, 17th ed. (Williams and Wilkins, 1978); R.R. Wheater, H.G. Burkitt and V.G. Daniels, *Functional Histology*, 1st ed. (Churchill Livingstone); E.J. Reith, *Atlas of Descriptive Histology*, 3rd. ed. (Harper Row, 1977).

CENTRAL NERVOUS SYSTEM 524-121M. The Department of Anatomy is a major contributor to this Interdisciplinary Course. See Section 5.24.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Anatomy 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.*

5.2 ANESTHESIA

Anesthesia is a specialty based on the knowledge of relevant areas of applied basic sciences and clinical medicine, combined with an understanding of the principles of measurement, equipment, function and technical expertise. This department participates in several courses in the medical curriculum in order to introduce students to fundamental aspects of

this specialty which are of importance to the future practitioner.

MED I

EMERGENCY MEDICINE 524-151M. The Department of Anesthesia is a contributor to this Interdisciplinary course. See Section 5.24. It also contributes to the departmental course in Human Anatomy.

LINK PERIOD

A two-week core rotation is required by all students. The essentials of assessment and management of acute ventilation and cardiovascular failure will be stressed. Students will be given the opportunity to practice 'hands-on' technical procedures in a one on one relationship with staff anesthetists.

ELECTIVES

Electives are offered to students during their clerkship year. The objectives are to involve them in certain aspects of acute medicine commonly encountered in the operating room and recovery ward including pain relief, drug overdosage, fluid and transfusion therapy, resuscitation, local anesthesia. The elective permits students to administer general anesthesia for uncomplicated surgical procedures under strict supervision thereby reviewing the physiological and pharmacological principles involved and increasing their technical competence. The objective is to demonstrate the scope of the specialty.

5.3 ARTIFICIAL CELLS AND ORGANS RESEARCH CENTRE

The Research Centre provides opportunity for interdisciplinary research and training in the clinical, laboratory, and theoretical aspects of artificial cells, artificial kidney, artificial liver, artificial blood, detoxification, enzyme replacement, biotechnology, and others. Graduate courses are offered in Experimental Medicine and Physiology. See the *Announcement of the Faculty of Graduate Studies and Research.*

5.4 BIOCHEMISTRY

Core Courses

MED I

BIOCHEMISTRY 507-121M. Lectures and clinical demonstrations are given, covering basic biochemistry with reference to disease processes. (Course coordinator: Prof. R.E. MacKenzie)

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Biochemistry and is well-equipped for graduate research leading to the M.Sc., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.5 BIOMEDICAL ENGINEERING UNIT

Graduate Courses

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.*

5.6 EPIDEMIOLOGY AND BIOSTATISTICS

Core Courses

MED I

EPIDEMIOLOGY 513-121M. A series of lectures and small group discussions dealing with the basic principles of clinical epidemiological research as well as health services research.

ESPD

Epidemiology. A series of lectures and small group discussions dealing with the critical analysis of research and papers.

Public and Community Health (Given in Cooperation with the Department of Humanities and Social Studies in Medicine).

A series of lectures and small group discussions dealing with the practitioner's place in

the evolving health care system in Canada and Québec.

Graduate Courses

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

5.7 FAMILY MEDICINE

MED I and II

INTRODUCTION TO THE PATIENT 524-161M
INTRODUCTION TO THE PRACTICE OF MEDICINE 524-203M
INTRODUCTION TO CLINICAL SCIENCES

The Department of Family Medicine is a contributor to these inter-disciplinary courses. See Section 5.24

CLERKSHIP

There is a six week core rotation in Primary Care which is organized conjointly by Family Medicine and Geriatrics. This rotation will be given at the Family Medicine Teaching Units at the Montreal General Hospital, the Jewish General Hospital, St. Mary's and the Queen Elizabeth Hospital. The student will join a primary care team and will participate in clinical decision making and management. Each student will also be exposed to the various aspects of care for the elderly and will have contact with the non-hospital based units providing services and care to those in the community.

ELECTIVES

Electives are offered in the clerkship year to students desiring further experience in Family Medicine.

5.8 HUMANITIES AND SOCIAL STUDIES IN MEDICINE

Core Courses

MED I

INTERDISCIPLINARY INTRODUCTION TO THE PATIENT 524-161M . This Department coordinates and contributes to this Interdisciplinary Course. See Section 5.24.

MED II

INTRODUCTION TO THE PRACTICE OF MEDICINE 524-203M. This department contributes to this Interdisciplinary Course.

HISTORY OF MEDICINE 522-201M. A lecture course tracing the patterns of health & disease from antiquity to modern times and the development of the medical profession.

ESPD

PUBLIC AND COMMUNITY HEALTH. (Given in cooperation with the Department of Epidemiology and Biostatistics). A series of lectures and small group discussions dealing with the personal life and career of the physician, and with the practitioner's place in the evolving health care system in Canada and Québec.

MEDICAL ETHICS AND JURISPRUDENCE. This Department coordinates and contributes to this Interdisciplinary Course. See Section 5.24.

Electives

The Department offers a wide range of fourth year electives in aspects of the social sciences and humanities as they relate to medicine. For details see the Electives Catalogue.

5.9 MEDICAL PHYSICS UNIT

Graduate Program

The Medical Physics Unit provides opportunities for interdisciplinary research and training in the field of physics applied to biomedicine. An M.Sc. (Applied) in medical radiation physics is offered to students with backgrounds in the physical sciences. Arrangements can also be made for students to register for a Ph.D. in Medical Physics, either through the Department of Physics or through the *ad hoc* interdisciplinary procedure of the Faculty of Graduate Studies and Research. See *Announcement of the Faculty of Graduate Studies and Research.*

5.10 MEDICINE

Core Courses

MED I AND II

INTRODUCTION TO THE PATIENT 524-161M.
EMERGENCY 524-151M.
INTRODUCTION TO THE PRACTICE OF MEDICINE 524-203M
INTRODUCTION TO CLINICAL SCIENCES.

The Department of Medicine is a contributor to these Interdisciplinary Courses. See Section 5.24.

LINK PERIOD

BLOCK TEACHING IN MEDICINE 526-321A/B. In this ten 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. Speciality areas of Dermatology, Ophthalmology, Neurology, Radiology, 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.

CLERKSHIP

There is an eight week core clerkship in Internal Medicine. 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 the resident team and by case presentations, clinical skills are further developed. In attendance at follow-up clinics, students learn the results of their 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.*

5.11 MICROBIOLOGY AND IMMUNOLOGY

Core Courses

MED II

MICROBIOLOGY AND INFECTIOUS DISEASE 528/221M. A general introduction to Microbiology is offered in the second year of Med II. The course deals with the general nature of the various groups of micro organisms: the bacteria, fungi, viruses, and protozoan parasites of medical importance. The lecture subjects include biogenesis of bacterial cell surfaces; physiology, metabolism and genetics of bacteria; antimicrobial agents and chemotherapy; mechanisms of microbial pathogenesis; a systematic survey of the major groups of pathogenic bacteria; epidemiology of infectious diseases; mycology and the opportunistic infections by yeasts and fungi; molecular biology of viruses and viral infections; and helminths and protozoa of the gastrointestinal tract. Laboratory periods complement the lectures on bacterial infections, and are organized as small group teaching sessions with the participation of staff and residents from McGill teaching hospitals. These topics are integrated to provide an understanding of the biologic and clinical basis of infectious disease. (Course Coordinator: Dr. J.W. Coulton). Text: Zinsser Microbiology, 18th edition, 1984, Appleton-Century-Crofts.

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.*

5.12 NEUROLOGY AND NEUROSURGERY

Core Courses

MED I

CENTRAL NERVOUS SYSTEM 524-121M. An interdisciplinary course organized by the Department of Neurology and Neurosurgery with the collaboration of other departments. See Section 5.24.

CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in the Introduction to Clinical Sciences, an interdisciplinary course. See Section 5.24.

LINK PERIOD

Almost all students have a four week Neurology rotation at one of the teaching hospitals within the system. This rotation exposes students to clinical neurologic problems where they will develop skills in physical examination, diagnostic procedures and clinical management.

Graduate Courses

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

5.13 OBSTETRICS AND GYNECOLOGY

Core Courses

MED I

INTRODUCTION TO THE PATIENT 524-161M.
EMERGENCY 524-151M

The Department of Obstetrics and Gynecology contributes in part to the course in Introduction to the Patient and Emergency Care. See Interdisciplinary Courses, Section 5.24.

REPRODUCTIVE MEDICINE 534-121M. A twenty-eight hour course covering hormonal regulation of gametogenesis, the menstrual cycle, male reproduction, infertility, puberty, pregnancy, parturition, lactation, contraception, sexual dysfunction, and ageing is offered and is designed to lay the basis for future clinical studies. (Course Coordinator: Dr. B. Robaire).

LINK PERIOD

OBSTETRICS AND GYNECOLOGY. A four week period is allocated to Obstetrics and Gynecology during Med II. The class is divided into three sections. The course consists of lectures and an introduction to clinical skills in the form of small group tutorials. The student will learn the fundamentals of the gynecologic and pre-natal examination in a clinical setting. The course has been developed, using as a base the material taught in Reproductive Medicine in Med I. Following this introduction, the student will have a two-month clinical clerkship in Med III. (Course Coordinator: Dr. M. Boyd)

CLERKSHIP

As part of the core curriculum in Med III, students will spend a six week clerkship on a clinical teaching unit in one of the three centres within the McGill teaching hospital system. This clerkship is designed to enlarge and enrich the basic course of Med II. Under supervision, students play an integral role in the management of patients and become a recognized part of the resident-intern-medical student team.

5.14 OPHTHALMOLOGY

Core Courses

LINK PERIOD

INTRODUCTION TO CLINICAL SCIENCES. As part of Introduction to Clinical Sciences, the various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized. See Interdisciplinary Courses, Section 5.24.

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.

CLERKSHIP

In MED III, students may take a 4 week elective in Ophthalmology. These electives 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: Thomas D. Duane, *Clinical Ophthalmology*, Rev. ed.,(Harper & Row, l983), *Ophthalmic Pathology*, 3rd ed. (Saunders, 1984); Newell, Frank W.Ophthalmlogy; principles and concepts,5thed., Mosby, l982;Parsons, John H. Parsons' Diseases of the eye, l7th ed. Saunders, l977; Scheie, Harold. Adler's Textbook of ophthalmology, 9th ed. Saunders, l977; Vaughan, Daniel. General ophthalmology, l0th ed. Lange, l983.

5.15 OTOLARYNGOLOGY

Core Courses

MED 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.

LINK PERIOD

INTRODUCTION TO CLINICAL SCIENCES. The Department of Otolaryngology is a contributor to this course, providing instruction in otolaryngological history taking and methods of physical examination. See Section 5.24.

OTOLARYNGOLOGY. "Block Time" clinical instruction is given to small groups of students as part of the Link 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.

Electives are available for students on a four week basis at all the integrated teaching hospitals.

Graduate Courses

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

5.16 PATHOLOGY

Core Courses

MED I

GENERAL PATHOLOGY 546-121M. 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.

MED II

PATHOLOGY 546-221M. This course in special pathology develops the course given in Med I. It includes microscopic work, Clinical Pathology Conferences, autopsy material and radiogic correlations.

COURSE IN APPLIED PATHOLOGY. Weekly clinico-pathological conferences are offered in conjunction with the Medicine rotation.

Other Courses

The Department 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.*

5.17 PEDIATRICS

Core Courses

LINK PERIOD

INTRODUCTION TO PEDIATRICS. Provides the students with a data base in Pediatrics such that they may approach the clerkship with some basic understanding of Pediatric problems. The Course will cover aspects of growth, perinatology, morbidity-mortality in Pediatrics, nutrition, fluid balance, infections of many systems, and neurologic and psychologic development. The course will consist of didactic teaching followed by small group tutorials where problems related to lecture content are discussed (Course Co-ordinator: Dr. Wendy MacDonald).

CLERKSHIP

PEDIATRICS. 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 rota-

tions 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)

5.18 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.

Core Courses

MED II

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

Other Courses

The Department offers a course in pharmacology and a half-course in neuropharmacology to students registered in the B.Sc. programs, and is well equipped for graduate research leading to the M.Sc., and Ph.D. degrees. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*

5.19 PHYSIOLOGY

Core Courses

MED I

MEDICAL PHYSIOLOGY 552-121M. Lectures supplemented by some demonstrations, laboratories and problem-solving sessions. The course deals with those fundamental facts and broad principles which underlie normal functional activities in man, as a basis for the scientific understanding of the mechanism of disease and of its treatment. Topics include the physiology of body fluids, the central and peripheral nervous system, the cardiovascular, respiratory, digestive and renal systems, hematology and endocrinology. (Course Coordinators: Drs. J. Milic-Emili and A. Wechsler)

CENTRAL NERVOUS SYSTEM 524-121B.

The Department of Physiology contributes to this Interdisciplinary Course. See Section 5.24.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Physiology and also have a Major program in Physiology 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.*

5.20 PSYCHIATRY

Core Courses

MED I

INTRODUCTION TO THE PATIENT 524-161M. The Department of Psychiatry coordinates the lecture series of this interdisciplinary course and contributes to its small group program. (Course Coordinators: Dr. L. Kirmayer and Dr. J. Lella)

MED II

INTRODUCTION TO THE PRACTICE OF MEDICINE 524-203M. The Department of Psychiatry is a contributor to this interdisciplinary course.

BASIC SCIENCE OF PSYCHIATRY 555-201M. The fundamental clinical symptoms and syndromes in Psychiatry will be used as a vehicle to present their basic science underpinnings. Thus, the student will be introduced to the neuroanatomical, neurochemical, and neurophysiological substrates of mental phenomena. Genetics and experimental psychology will also be included. (Course Coordinator: Dr. S. Young)

LINK PERIOD

INTRODUCTION TO CLINICAL PSYCHIATRY. This course will elaborate and reinforce introductory material in the field of Psychiatry presented in early sections of the curriculum. In addition, it will provide students with the basic components of clinical psychiatry,

preparatory to the Phase III clerkships. (Coordinator: Dr. D. Frank)

CLERKSHIP

PSYCHIATRY. 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-centered. (Course Coordinator: Dr. R.A. Ramsay)

Graduate Courses

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

5.21 RADIATION ONCOLOGY

Core Courses

MED I

BASIC PRINCIPLES OF RADIATION ONCOLOGY. A brief account of the principles of radiation physics will be followed by a more detailed discussion of the interaction of ionising radiation with normal and malignant tissues, in order to give the student a broad basic knowledge of fundamental principles underlying the treatment of patients with cancer with irradiation. The interaction of radiation and cancer chemotherapeutic agents at the cellular and organ level will also be discussed, as appropriate to the management of patients in an interdiciplinary manner. Given in conjunction with the Pathology course.

LINK PERIOD

CLINICAL RADIATION ONCOLOGY. Teaching is integrated with the clinical rotations. The student is welcome to attend the weekly interdisciplinary oncology conference, the weekly Radiation Oncology conference, as well as the twice weekly patient management conferences.

CLERKSHIP

CLINICAL RADIATION ONCOLOGY. Teaching in the Clerkship is a continuation of the clinical program initiated in the Link Period.

Graduate Courses

Diploma in Radiation Oncology. See *Announcement of the Faculty of Graduate Studies and Research.*

5.22 DIAGNOSTIC RADIOLOGY

Core Courses

MED I

HUMAN ANATOMY 504-131M. The Department of Diagnostic Radiology is a contributor to this course. See Section 5.1.

LINK PERIOD

A two week core rotation in clinical radiology is given to all students.

SEMINARS IN DIAGNOSTIC RADIOLOGY. These are held weekly for students during their "block time" in Medicine and Surgery. See Sections 5.10 and 5.23.

PHASE III

DIAGNOSTIC RADIOLOGY ELECTIVE. During Phase III students may take a 4-week rotation in a Diagnostic Radiology program emphasizing diseases of clinical import and the role of Radiology in their evaluation. In addition, all students during their "clinical clerkship" may attend regular conferences in the Department of Diagnostic Radiology.

5.23 SURGERY

Core Courses

MED I

INTRODUCTION TO THE PATIENT 524-161M.
EMERGENCY MEDICINE 524-151M.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.24.

LINK PERIOD

INTRODUCTION TO CLINICAL SCIENCES

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.24.

SURGERY. During this four week 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 Coordinators: Drs. E.D. Monaghan and L. Ogilvy)

CLERKSHIP

In Phase III of the curriculum, students spend eight weeks as clinical clerks in Surgery. The emphasis is on the practice of 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.

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

Orthopedic Surgery

Principles of physical diagnosis of the musculo-skeletal 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 Orthepedics and fractures.

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

Urology

Lectures are given in the Link Period during the Surgery rotation. Subject coverage includes symptoms and signs of significance, congenital anomalies, obstructive uropathy, calculous disease, genito-urinary infections, abnormalities of the external genitalia, pathophysiology of mucturition and neoplastic disease of the genito-urinary tract.

Surgical Research

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

5.24 INTERDISCIPLINARY COURSES

MED I

INTRODUCTION TO THE PATIENT 524-161M. This course introduces the first year medical student to the biological, psychological and social dimensions of human nature that are central to medical practice. It provides a basic science foundation for the second year courses, Introduction to the Practice of Medicine and Introduction to Clinical Sciences. The lecture series covers the following topics: The neurobiology of human behaviour, learning theory and behavioural medicine, cognitive and social psychology, psychodynamics, personality theory and research, sociocultural dimensions of human behaviour, sociology of medicine, the biopsychosocial approach to medicine, and the developmental life cycle.

The small group program introduces students to the practice of medicine via exposure to patients, doctors, nurses, etc. in clinical settings and provides a forum to discuss the clinical, ethical, social, financial, and psychological aspects of the practice of medicine. In addition, the small group provides a forum to dicuss any questions, grievances, anxieties, etc. brought about by the experience of being a first-year medical student. It also offers an introductory experience in interviewing patients and a consideration of the doctor-patient relationship. As an essential part of the small group program, teams of two students each will be assigned either a pregnant woman or

elderly person to follow over the the course of the small group program. (Course Coordinators: Dr. L. Kirmayer and Dr. J. Lella)

CENTRAL NERVOUS SYSTEM 524-121M. 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. Non-medical students wishing to register for this course must have the permission of the Course Co-ordinator. (Course Coordinator: Dr. Alain Beaudet).

EMERGENCY MEDICINE 524-151M. This course consists of a series of nine sessions given in the first year providing an introduction to the principles of Emergency Medicine. Emphasis is placed on pre-hospital care of the acutely ill and injured. An additional course in Cardio-Pulmonary Resuscitation is included. The suggested text is "Emergency Care and Transportation of the Sick and Injured" by the Committee on Injuries - American Academy of Orthopedic Surgeons. (Course Coordinator: Dr. A. Grunfeld)

MED II

INTRODUCTION TO THE PRACTICE OF MEDICINE 524-203M. An introduction to clinical data gathering in Medicine – particularly interviewing and history taking. This will be introduced in lecture format and practised in small groups with tutors. The doctor-patient relationship will also be studied. This course follows the Introduction to the Patient Course and shares its small group program. It may be considered as preparatory to the Introduction to Clinical Sciences Course. (Course Coordinators: Dr. David Dawson and Dr. Ruth Russell)

HUMAN GENETICS 524-201M. The principles of human genetics and their applications in the practice of medicine. Topics include: mendelian genetics, chromosomal disorders, population genetics, prenatal diagnosis, genetic counselling and treatment of genetic disease. Lectures and presentation of patients. (Course Coordinator: Dr. David Rosenblatt)

NUTRITION 524-202M. The basic science of nutrition will be reviewed, in relation to protein, energy, vitamins, minerals and micronutrients, in the context of normal human nutrition. The commonest disorders of nutrition, their pathophysiology and therapies, will be presented. These will include obesity, anorexia nervosa, hospital malnutrition, major systemic diseases (renal, hepatic, diabetes) and parental nutrition. (Course Coordinator: Dr. Errol Marliss)

LINK PERIOD

INTRODUCTION TO CLINICAL SCIENCES. The course objective is to provide students the opportunity to make their first 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 April of Year II and running for one month, 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, Psychiatry 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. David Dawson)

WHOLE CLASS TEACHING TIME

There are approximately 200 hours of didactic teaching time given to the Departments of Medicine, Surgery, Pediatrics, Psychiatry, Otolaryngology and Ophthalmology during this period.

ESPD

MEDICAL ETHICS AND JURISPRUDENCE. A course required of all students in Fourth Year. It is an integrated series of lectures planned to include ample time for discussion. The sessions are given by members of the Faculties of Law and Medicine, and other invited guests. The course deals with the ethical issues and conflicts encountered in medical practice and the legal requirements that the profession and society ask of physicians. (Coordinator: Dr., David Roy, Director, Centre for Bioethics, Clinical Research Institute of Montréal)

5.25 ELECTIVE COURSES

Major electives are offered by the following Departments: Anatomy, Anesthesia, Biochemistry, Biomedical Engineering, Epidem-

ology and Biostatistics, Family Medicine, Humanities and Social Studies in Medicine, Medicine, Microbiology and Immunology, Neurology, Neurosurgery, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Pharmacology and Therapeutics, Physiology, Psychiatry, Diagnostic Radiology, Radiation Oncology and Surgery during Phase II and III. Details are published in the "Elective Calendar" and further information can be obtained from the Coordinator (Elective Program), Faculty of Medicine.

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McGill University
Montreal

An invitation to live
and learn