



INNOVATE FOR **life**

At the MUHC innovation takes us from the lab floor to the patient bedside, through a CT scan of a brain, to a student's pen and inquisitive look as he inspects an ultrasound image of a young mom's baby. It also travels to the nurse halfway around the world using techniques of patient care delivery developed at the MUHC, to the physician being accorded an international award for scientific excellence that has helped change the face of medicine for the better—for the world. And it is propelling us forward to new and modern healthcare facilities, which will house the technology and expertise of tomorrow. This is who we are and this is who we strive to be every day. Innovation means better patient care. Better patient care means we are doing our job.

Please visit **www.muhc.ca/ar2009** for our complete online 2009-2010 annual report.



The Honourable Arthur T. Porter, P.C. MD
Director General and Chief Executive Officer

Message from the Director General and CEO

It is tremendously gratifying to serve as the Director General and Chief Executive Officer of an organization where stimulating innovation and discovery, attracting and retaining the best people and creating value from our knowledge and practice represent three strategic orientations by which we improve people's health and well-being.

In 2009-2010, the McGill University Health Centre (MUHC) worked hard to assure that patients and their families benefited from the very best possible care by making available new patient-education materials, deploying leading-edge technologies and equipment, pursuing fundamental and clinical research, shifting our care model toward integrated, inter-professional teamwork, fostering even closer relationships with network partners, and applying solid governance practices. We also advanced the New MUHC at the Glen, Mountain and Lachine campuses, modernizing healthcare units and celebrating the official groundbreaking of the Glen Campus on April 1, 2010—the cusp of the next fiscal year.

Looking forward, our healthcare environment will remain as challenging if not even more so. After all, balancing the daily need to continuously improve the quality, safety and accessibility of healthcare services with the need to plan and execute the myriad facets of Canada's largest hospital redevelopment project—including the world's largest public-private partnership—is an extremely complex undertaking. I am proud to say that we believe we are up to these challenges. We have a wonderful team at the MUHC; people who are using their inquiring minds, creativity and leadership skills to care for our patients whilst spearheading the innovations that are transforming health care.

It is my privilege, as always, to congratulate our team for their accomplishments and steadfast dedication. Please enjoy this 2009-2010 Annual Report of the McGill University Health Centre.



The Honourable W. David Angus, Q.C. Ad E. Chairman, MUHC Board of Directors

Message from the Chairman of the Board of Directors

For nearly two centuries, Montrealers and Quebecers at large have benefited from the exceptional care of healthcare professionals and staff within the hospitals that have become the McGill University Health Centre. Our teams are buoyed by a sense of duty—one which recognizes that meeting healthcare needs demands an unparalleled esprit de corps, consistently outstanding performance and top-notch facilities. They also understand that, regardless of individual positions, resting on laurels is not an option.

Accordingly, the MUHC endeavours, year after year, to deliver an appreciable return on investment for its patients and their families who entrust them with their care, the government bodies that assure its operating budget and invest in its infrastructure, the granting agencies that provide essential support for world-class research, and the generous members of society who endow programmes, fund leading-edge technologies and allow the organization to fulfill its patient care, research, teaching and technology assessment mission.

In my capacity as Chairman of the MUHC Board of Directors, I relish celebrating each discovery, novel practice, new recruit and historic milestone, including the unforgettable groundbreaking last spring on the Glen Campus. I am also grateful for opportunities, such as this one, where I may recognize and thank our healthcare professionals, staff and leadership for their tireless efforts. It is an honour to work with you and to make a difference by sharing my experience and insights.

In this Annual Report, it is impractical to review comprehensively all aspects of the organization. There is no doubt in my mind, however, that the MUHC's excellence as well as the high quality and commitment of its people are reflected amply through the examples provided. Furthermore, these highlights underscore why our institutions have stood the test of time and are shaping *The Best Care for Life*.

Dr. Judith Ritchie, Associate Director for Nursing Research, was the recipient of the 2010 Excellence through Evidence award for implementing evidence-based innovations in health care. Dr. Ritchie has developed evidence-based guidelines to improve the quality of patient care by reducing falls, managing pain and maintaining skin integrity.



Dr. Balfour M. Mount inducted into the Academy of Great Montrealers

Dr. Balfour M. Mount, Founding Director of the Royal Victoria Hospital Palliative Care Services, was inducted into the Academy of Great Montrealers for his outstanding contribution to palliative care. Dr. Balfour has worked tirelessly to improve end-of-life treatment and is a recognized international leader in this field of medicine.



Dr. Brenda Milner awarded three awards for scientific excellence

Dr. Brenda Milner, an active researcher at the Montreal Neurological Hospital and Institute, received the prestigious Goldman-Rakic Prize for Outstanding Achievement in Cognitive Neuroscience for progress made through her dedication to research. The founder of cognitive neuroscience – a field that brings together brain and behaviour and helps to elucidate certain aspects of mental illness – Dr. Milner also received the prestigious Balzan Prize, which includes a cash award of \$1 million. In addition, the Ouebec government appointed Dr. Milner a Grand Officer of the Order of Ouebec in recognition of her scientific excellence



Dr. Phil Gold inducted into Canadian Medical Hall of Fame

Dr. Phil Gold. Executive Director. Clinical Research Centre, McGill University Health Centre, was inducted into The Canadian Medical Hall of Fame. Known for his co-discovery of a human tumour marker that transformed the diagnosis and management of cancer, he has made enormous contributions to medicine.



Dr. Sam Daniel receives Top 40 Under 40 Award

Dr. Sam Daniel, Director, Otolaryngology Head and Neck Surgery at The Montreal Children's Hospital, was a recipient of Canada's Top 40 *Under 40 ™*. Canada's Top 40 Under 40 ™ is a prestigious national award program, which honours 40 Canadians in the private, public and not-for-profit sectors under the age of 40. Dr. Daniel founded the McGill Auditory Sciences Laboratory that he currently directs.



Dr. Sasha Bernatsky receives **Canadian Rheumatology Association Young Investigator**

MUHC rheumatologist and researcher Dr. Sasha Bernatsky was the recipient of the Canadian Rheumatology Association Young Investigator Award, which honours the nation's top junior investigator in rheumatology. The prestigious award was made in recognition of Dr. Bernatsky's research into outcomes in rheumatic diseases including morbidity, mortality and the economic effects of conditions, such as rheumatoid arthritis, juvenile idiopathic arthritis, systemic lupus erythematosus and fibromyalgia.

The awards and honours listed here represent just a small sampling of those received throughout the year 2009-2010.

In the News

April 14, 2000

Treat HIV earlier to decrease the risk of death

A study involving the team of Dr. Marina Klein of the Research Institute of the MUHC shows the risk of death in HIV patients decreases dramatically if they start treatment earlier than officially recommended The study, published in The New England Journal of Medicine, is the first of its scope to measure the risk of death based on the progress of infection at the start of treatment.

Discovery of mechanism for cancer spread picked as discovery of the

A discovery by MUHC researcher Dr. Janusz Rak and his team was selected by readers of Québec Science as Discovery of the Year 2008. Dr. Rak and his team identified a fundamental mechanism by which tumour cells spread.

Investigation sheds light on link between smoking and COPD

MUHC Clinician and Researcher Dr. Manuel Cosio suggests autoimmune factors and genetic predisposition explain why some smokers develop chronic obstructive pulmonary disease (COPD) while others do not. The study. published in The New England Journal of Medicine, sheds further light on the immunological processes involved in the development of COPD – a disease described by the World Health Organization as the fourth leading cause of premature death

worldwide.

A study co-authored by

July 9, 2009 Towards an explanation for Crohn's disease? A study led by Dr. Marcel Behr of the Research Institute of the MUHC has provided new insights into how a mutation in the NOD2 gene may contribute to Crohn's disease in some people. This research, published in the Journal of Experimental Medicine, may pave the way for new therapeutic approaches to Crohn's disease.

August 19, 2009 Physicians at the

Neuro first in North America to offer new stent

An advanced new technology is now available to patients with large, broad neck intracranial aneurysms – a potentially deadly weakening of an artery in the brain. Physicians at the Montreal Neurological Institute and Hospital were the first in North America to implant a specialized intracranial stent known as Silk, which re-directs the blood flow away from the aneurysm into a normal artery.

September 1<mark>7, 2009</mark>

McGill's new **Integrated Program** in Neuroscience brings students. professionals together

The Integrated Program in Neuroscience (IPN), McGill's new interdepartmental, interdisciplinary neuroscience program for graduate students, will bring together students and professionals to encourage synergy among individuals focused on neuroscience.

October 30, 2009 The Montreal Chest Institute celebrates 100 years of excellence

The Montreal Chest Institute celebrated the 100th anniversary of its opening by King Edward VII. In honour of the occasion, Queen Elizabeth II sent a letter to congratulate the Institute on its accomplishments in respiratory medicine over the last century.

Smokers with common auto immune disorders at higher risk for skin damage A team led by MUHC

researcher and clinician Dr. Christian A. Pineau found smoking is linked to skin damage in people with systemic lupus erythematosus (SLE), an autoimmune disorder affecting one in every 2,000 people. The study, published in The Journal Of Rheumatology, noted that symptoms of SLE can be treated, but cigarettes interfere with the effectiveness of the treatment.

Celebrating 75 years of excellence

The Montreal Neurological Institute and Hospital – the Neuro - marked its 75th anniversary. The Neuro, an internationallyacclaimed research centre, offers specialized hospital services for patients with brain-related disorders.

Lung cancer has the highest mortality rate of all cancers, and treatment is complex, often involving radiation, chemotherapy and surgery. To support lung cancer patients, the MUHC created a Lung Cancer Navigation Program (LCNP), which provides each patient with the services of a

"nurse pivot," who

through treatment.

"coaches" the individual

Lung Cancer

Navigation Program

through complicated

coaches patients

cancer therapy

Dr. Constantin Polychronakos, Director of Pediatric Endocrinology at the MUHC. shows mutations in the RFX6 gene cause a rare form of neonatal diabetes involving the complete absence of islets of Langerhans. The research, published in *Nature*, brings researchers one step

Low level of

McGill discovery

offers hope in

A team led by

closer to a cure for

diabetes.

diabetes

Vitamin D, linked to muscle fat, decreased strength in young people A groundbreaking study by Dr. Richard Kremer

March 4, 2010

published in the Journal of Clinical Endocrinology and Metabolism found that a high proportion of young people had too little Vitamin D in their blood. Vitamin D deficiencies are linked to increased body fat, decreased muscle strength and

other disorders.

MUHC steps into the future as construction starts at the Glen Campus

It was a momentous occasion and a milestone for the McGill University Health Centre. Before an audience of dignitaries, as well as MUHC officials, staff, partners, patients and friends, construction of the Glen Campus officially got underway. The event crowned more than a decade of hard work by thousands of dedicated individuals within the MUHC and its community.

The Glen Campus will transform health care for generations to come. It will be the new home of The Montreal Children's Hospital, the Royal Victoria Hospital, the Montreal Chest Institute and a Cancer Centre. Also on the Campus will be the Research Institute of the MUHC, an internationally recognized centre for medical research.

The McGill Health Infrastructure Group, led by SNC-Lavalin and Innisfree Ltd., will be responsible for the construction and maintenance of the leading-edge facilities at the Glen Campus as part of one of the world's largest public-private partnerships.

Facilities at the Mountain and Lachine campuses complete the redevelopment. All three campuses will function as centres of excellence, and will offer single-patient rooms as well as state-of-the-art imaging and operating suites.

GLEN CAMPUS



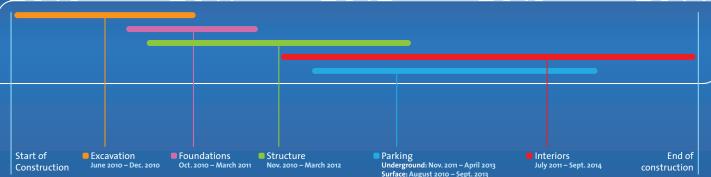








2010 2011 2012 2013 2014







Centre universitaire de santé McGill McGill University Health Centre

The redevelopment project of the MUHC is made possible in part by the \$300 million being raised from the community by *The Best Care for Life* Campaign.

Stats at a Glance



38,294

Admissions per year

105 Admissions per day



170,935

Emergency Department visits per year



31,638 Surgeries (patients) per year



695,830

Ambulatory visits per year (Clinics only)



3,857 Deliveries per year



4,116,780 Kilograms of laundry washed per year



2,457,145 Meals served per year

Diagnostic and Therapeutic Tests and Procedures



11,338,881

Clinical Laboratory tests



488,060



116,358 Electrocardiogram (ECG) tests

9,548

Electroencephalogram (EEG) and Electromyography (EMG) tests



and procedures



3,374

Positron Emission Tomography (PET) exams



7,300

Cardiac Catheterization Lab and Interventional Electrophysiology tests and procedures



2,746

Radiation Oncology procedures



Financial Report

The MUHC financial year ended March 31, 2010 and resulted in an operating deficit of \$12.3M on a total revenue of \$978M. This deficit represents less than 1.3 per cent of revenue. The MUHC deficit was within the targeted deficit of \$12.3M, approved by the Agence de la santé et de services sociaux de Montréal. On the following pages is the MUHC financial and operational data summary.

> Associate Executive Director Finance, Administrative and Clinical Support

Expenses (Thousands \$) McGill University Health Centre

	2007-2008	2008-2009	2009-2010
Nursing care	186,622	209,961	221,994
Diagnostic & therapeutic services	309,334	331,960	357,905
Technical & support services	148,892	181,141	161,986
Administration	43,049	49,175	54,001
Other	160,071	181,734	194,465
Total	847,968	953,971	990,351



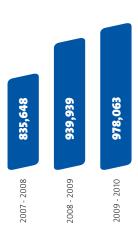




Revenue

(Thousands \$) McGill University Health Centre

	2007-2008	2008-2009	2009-2010
Health & Social Services Agency of Montreal	632,757	690,772	739,073
Sales of services & recoveries	26,057	28,809	33,897
Patients	21,012	23,544	24,261
Research	57,493	72,922	78,851
Other	98,329	123,892	101,981
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Total	835,648	939,939	978,063





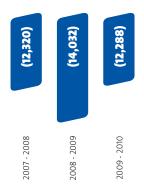




Surplus (Deficit)

(Thousands \$) McGill University Health Centre

	2007-2008	2008-2009	2009-2010	
Revenue	835,648	939,939	978,063	
Expenses	847,968	953,971	990,351	
Surplus (Deficit)	(12,320)	(14,032)	(12,288)	



ANNUAL REPORT 2009 - 2010

Summary of Significant Statistical Data

March 31, 2010

Cta	tistica	Data
o La	usuca	I Data

Statistical Data					
Inpatients	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010
Bed Set-up					
Acute Care - Adults	877	877	865	945	928
Acute Care - Children	152	152	152	134	134
Newborns - General Care	26	26	26	26	26
Newborns - Intensive Care	55	55	55	55	55
Chronic Care - Adults	117	117	117	256	256
Total	1,227	1,227	1,215	1,416	1,399
Admissions					
Acute Care - Adults	27,305	26,489	25,342	27,355	27,822
Acute Care - Children	6,654	6,460	6,418	6,346	5,705
Newborns - General Care	3,518	3,589	3,485	3,309	3,499
Newborns - Intensive Care	741	757	710	699	778
Chronic Care - Adults	424	442	410	527	490
Total	38,642	37,737	36,365	38,236	38,2 9 4
		511,57			
Patient Days					
Acute Care - Adults	253,435	255,990	252,291	265,945	263,610
Acute Care - Children	32,800	32,398	31,747	30,413	30,624
Newborns - General Care	8,359	8,700	8,170	7,657	7,907
Newborns - Intensive Care	13,723	14,214	14,001	13,855	14,257
Chronic Care - Adults	48,616	48,789	49,176	113,037	102,497
Total	356,933	360,091	355,385	430,907	418,895
Average Length of Stay					
Acute Care - Adults	9.28	9.66	9.96	9.72	9.47
Acute Care - Children	4.93	5.02	4.95	4.79	5.37
Newborns - General Care	2.38	2.42	2.34	2.31	2.26
Newborns - Intensive Care	18.52	18.78	19.72	19.82	18.33
Chronic Care - Adults	114.66	110.38	119.94	214.49	209.18
Weighed Total	9.24	9.54	9.77	11.27	10.94
Average Occupancy					
Acute Care - Adults	79.17%	79.97%	79.91%	77.10%	77.83%
Acute Care - Children	79.17% 59.12%	79.97% 58.40%	57.22%	62.18%	62.61%
Newborns - General Care	88.08%	91.68%	86.09%	80.68%	83.32%
Newborns - Intensive Care	68.36%	70.80%	69.74%	69.02%	71.02%
Chronic Care - Adults (note 1)	113.84%	114.25%	115.15%	120.97%	109.69%
Weighed Total	79.70%	80.40%	80.14%	83.37%	82.03%
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Note 1: Due to the fact that the bed utilization exceeds the number of chronic beds reported in the official AS-478 report, the occupancy rate of the chronic care adults exceeds 100%.

Statistical Data

Alternative Care to Hospitalization	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010
Ambulatory Services (visits)					
Emergency	138,484	142,348	141,353	171,944	170,935
Outpatient Clinics	634,953	630,262	613,192	668,161	671,075
Family Planning	20,341	24,248	26,878	27,066	24,755
Total	793,778	796,858	781,423	867,171	866,765
Day Care Medicine (treatment day)					
Physical Disease	86,652	85,112	84,069	88,863	91,494
Parenteral Nutrition	6,835	6,158	7,281	7,046	7,291
Oncology and Haematology	21,732	22,545	22,853	22,526	23,949
Total	115,219	113,815	114,203	118,435	122,734
Day Hospital (attendance)					
Geriatrics	3,811	3,605	3,615	6,780	6,103
Psychiatry	11,272	8,394	8,082	8,529	7,983
Total	15,083	11,999	11,697	15,309	14,086
Nursing Day Care					
Day Surgery (patient)	16,703	14,607	14,533	20,061	18,887
Endoscopy and Cystoscopy (treatment)	23,005	23,322	22,045	27,750	28,782
Total	39,708	37,929	36,578	47,811	47,669
Others (treatment)					
Hemodialysis	46,082	44,878	44,513	45,338	43,355
Peritoneal Dialysis	17,670	17,658	18,885	17,716	16,407
Interventional Radiology	12,333	14,047	13,845	15,762	17,410
Cardiac Angiography	3,791	3,578	3,425	3,463	3,604
Lithotripsy	876	894	902	978	870
Total	80,752	81,055	81,570	83,257	81,646
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Board of Directors

Designated by the Minister of Health and Social Services:

The Hon. Senator W. David Angus (Chairman)

Ex-Officio:

The Hon. Dr. Arthur T. Porter, CEO (Secretary)

Designated by the Corporations:

Claudio F. Bussandri (Vice Chairman)
Calin Rovinescu

Elected by the population:

Pierrette Khan Yong Wong (Treasurer)

John A. Coleman

Designated by the Central Patients Committee:

Maria Mastracchio-Lafontaine

Designated by the Council of Physicians, Dentists and Pharmacists:

Dr. Alan Barkun

Designated by the Council of Nurses:

Patricia O'Connor

Designated by the Multidisciplinary Council:

Michelle Milos

Elected by the Council of Non-clinical Personnel:

Demetra Kafantaris

Designated by the Foundations:

Eric Maldoff

Claude E. Forget

Designated by McGill University:

Dr. Richard Levin

Dr. Wendy Thomson

Robert Rabinovitch

Elected by the Residents:

Dr. Hady Saheb

Designated by the Agence de la santé et des services sociaux de Montréal:

Marc Courtois

Coopted:

I. Barry Scott Raymond Royer

Maggie Emudluk

Please visit **www.muhc.ca/ar2009** for our complete online 2009-2010 annual report.

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Photos: Owen Egan Conception and design: Guérin Branding and Sismo Création