department of

paediatrics

The Hospital for Sick Children

University of Toronto

2001–2002 annual report
Contents

Chair’s report 2

Divisional overviews
Adolescent Medicine 5
Cardiology 7
Clinical and Metabolic Genetics 11
Clinical Pharmacology 15
Emergency Services 18
Endocrinology 20
GI/Nutrition 22
Haematology/Oncology 26
Immunology/Allergy 32
Infectious Diseases 33
Neonatology 36
Nephrology 40
Neurology 42
Paediatric Medicine 45
Respiratory Medicine 49
Rheumatology 52
Inter-Divisional Colleagues 56
Paediatric Housestaff 57
Awards 58
Promotions 60
The 2001-2 academic year was a success from many perspectives and the following highlight but a few of the many achievements of our academic paediatricians. The broad scope of our faculty's contributions to clinical care, education, research and administration are outlined on our own (www.utoronto.ca/paedadm/index.html and www.sickkids.ca/ ) and related web sites.

We are a research intensive Department. Our excellent research productivity is evidenced by the peer reviewed publications and grants listed within this annual report and the many presentations made by our faculty at local, regional and international meetings. This year, I draw special attention to our young clinician-scientists who are presently within or have recently emerged from the Scientist – track career pathway. I am extremely proud of their outstanding achievements which, in part, reflect the strong and effective collaboration between our Department and the Research Institute of The Hospital for Sick Children (http://www.sickkids.on.ca/research/ ) These young clinician researchers ensure that our Department will continue to develop new strategies to maintain the health of children and new cures for childhood disease. The Department’s focus on training the next generation of Canadian paediatric researchers is perhaps best illustrated by our annual Paediatric Resident and Fellows Research Day. This year our faculty were witness to oral and poster presentations from 31 of our trainees. This annual celebration of our residents’ and fellows’ research achievements has been enhanced by the move to an off-site location and the timely and extremely generous endowment fund provided by the Lint Family to fund these annual activities in perpetuity.

Our Department’s Annual Awards day once again provided us the opportunity to recognize our faculty’s continued outstanding contributions to academic paediatrics and specifically to acknowledge our colleagues who were promoted to the more senior academic ranks. In the past academic promotion typically focused on research but more recently achievements in education has become an equally respected and well “benchmarked” platform for promotion. However, this year I draw special attention to the individuals who were promoted on the basis of their creative professional activities. Such achievements have in the past been inadequately recognized despite the fact that such activities clearly differentiate our academic paediatricians from those physicians who make important contributions to our society at large by providing front line care to children outside of the academic world.

Several events have served as a testimony to our Department’s excellent contributions in education. Two of our paediatricans have recently taken major leadership roles in undergraduate medical education within the decanal office. Also, our Associate Chair of Education led the Faculty wide Internal Review Committee that assessed all of our Faculty’s training programmes prior to the Royal College of Physician and Surgeon of Canada’s laudatory accreditation review. These appointments combined with the numerous major contributions in undergraduate, postgraduate and continuing education arenas leave no doubt of our accomplishments in training the future physicians who will care for children and provide leadership at Canadian and international universities.

During the early part of my chairmanship we established the Richard Rowe Award for Clinical Excellence; this was an important step...
in the recognition of those individuals who provided outstanding scholarly care for children at The HSC. This award is now complemented by a comparable award recognizing the excellence in clinical care by a paediatrician within their first 10 years of appointment at an academic health science centre. These highly visible awards together with clearly outlined career pathways for clinician specialists emphasize the value that we place on providing scholarly state of the art care to our children.

One of my major priorities has been to promote the career development of our paediatricians. An initial important step occurred in 1997 when we developed clearly defined Job Activity profiles (JAP, Clinician–Scientist, Clinician–Specialist, Clinician–Investigator, Clinician–Educator, Clinician–Teacher, and Clinician–Administrator) for each paediatrician. This recognized the critical role that each JAP plays in maintaining and enhancing a paediatric academic health science centre and our respected colleagues developed a “road-map” of achievements which characterized the successful career development in the clinical care, medical education and research arenas. These steps, combined with the formal implementation of mentorship programmes for all JAPs, are part of The HSC’s Department of Paediatrics / Paediatric Consultants Partnership’s Career Development and Compensation Programme (CDCP). The CDCP is not only a critical factor in the career development of our paediatricians but is also the instrument by which peer review is carried out and personal remuneration is determined. During 2001, the CDCP underwent a “self-examination” where our HSC based full time paediatricians evaluated its merits and outlined its deficiencies (O’Brodovich et al, Pediatrics, Volume III, No. 1 January 2003). This process concluded that the CDCP had, from an overall point of view, been successful in addressing its original goals, was an improvement over previous approaches, and did not require a major redesign. There were areas needing improvement which are now being addressed.

The successful re-negotiation of The HSC’s Department of Paediatrics / Paediatric Consultants Partnership Alternative Funding Plan (AFP, 2001-6) is remarkable for several reasons. First, it allows me to financially better recognize our outstanding paediatricians. Second we are hiring new academic paediatricians, many from other regions of Canada and from different continents throughout the world. However, of greatest importance, is the new partnership established with the HSC Foundation who will now recognize the time spent by our clinician researchers who develop new cures for the children of Ontario and the world.

In closing, I would like to take this opportunity to once again thank the members of my Department and its trainees for their contributions to the immediate and future well-being of infants and children and ask you to share in their accomplishments described within the 2001 – 2002 annual report.

Hugh O’Brodovich MD, FRCP(C)
Paediatrician-in-Chief, Hospital for Sick Children
Professor of Paediatrics and Physiology
Chair of Paediatrics University of Toronto
Senior Scientist, Hospital for Sick Children Research Institute
R.S. McLaughlin Foundation Chair in Paediatrics
at The Hospital for Sick Children
2002 Annual Report

CHAIR'S STATEMENT

overviews

divisional

overviews

views
The Division of Adolescent Medicine continues to focus its clinical activities in four program areas – eating disorders, substance abuse, young families, and complex adolescent problems. Having received special funding from the Ministry of Health, a Day Hospital was launched this April in the Eating Disorders Program, allowing for the full continuum of care to children and adolescents with eating disorders. In addition to outpatient and inpatient tertiary care facilities, the Day Hospital Program has addressed an important gap in treatment options, allowing for adolescents to receive intensive treatment for their eating disorders without removing them from their families and home communities.

Over the last few years, the Adolescent Substance Abuse Outreach Program has taken a lead role in an initiative that was launched to address a glue sniffing problem that had been identified among several groups of Toronto youth. The project evolved into the Glue Sniffing Project 2000, and resulted in the completion of an “anti-glue sniffing” video produced by youth for youth. Plans were also initiated for a new web site specifically designed to inform the public about glue sniffing. The committee overseeing this project continues to be chaired by one of our Divisional substance abuse treatment counsellors, and their work was recently formally recognized by Health Canada. In their document entitled “Preventing Substance Abuse Among Young People: A Compendium of Best Practices,” the project was praised as being “an exemplary Canadian program.”

This past year one of our Divisional physicians, Dr. Miriam Rossi, was promoted to the rank of full professor. In addition to her years of work within the Division, Dr. Rossi has also been the Associate Dean of Student Affairs in the Faculty of Medicine at the University of Toronto.

The Divisional research activities are focused in the areas of medical complications of eating disorders, the evaluation of the use of information technology for health promotion with youth, treatment outcome and specific substance use studies in the area of adolescent substance use, HIV educational interventions with incarcerated youth, and health values in adolescents with chronic illnesses.

**publications**


**books and chapters in books**


**research and investigations**


The Division of Cardiology was formally established after World War II, and is now one of the largest and most successful in the world. Now undergoing a period of modest expansion of staff, the clinical portfolio of the division is complete. Its philosophy has remained unchanged since its inception over sixty years ago; to provide the highest quality care in an evidence-based environment of clinical innovation and scientific discovery.

Over the past decade, the Divisional activities, in close collaboration with surgical and intensive care colleagues, have contributed to our markedly improved preoperative assessment and postoperative outcomes for children undergoing cardiac surgery, led the field in development of therapeutic catheter techniques, made important contributions to our understanding of fetal cardiac medicine, established one of the largest paediatric cardiac transplantation centers world wide, and has won international recognition for its contribution in the field of epidemiology of acquired and congenital heart disease and surgical outcomes. Each of these areas has provided the substrate for the large clinical research output of the Division which is underpinned by a world class laboratory science program. One of the most exciting clinical developments on the horizon is the commissioning, to open in 2003, of an integrated suite of catheter guided interventional procedures in children.

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McCrindle BW: Considerations in the appraisal of mortality associated with congenital cardiac lesions. Seminars in Thoracic and Cardiovascular Surgery, Pediatric Cardiac Surgical Annual: 2001: 4: 244-255.
253-261.


books & book chapters


research and investigations


AML1, Mts 1, progression and regression of pulmonary vascular disease. Robinovitch M: Heart and Stroke Foundation of Canada ($179,327 2001 - 2006).


B1 integrins and the IGF2-IGF1 receptor system in fetal cardiac myocyte proliferation: Regulatory role for the nuclear transcription factor Sp1. Hornberger LK, None: Grant-In-Aid, Heart and Stroke Foundation of Ontario ($116,168 2000 - 2002).

B1 integrins and the IGF2-IGF1 receptor system in fetal cardiac myocyte proliferation: regulatory role for the nuclear transcription factor Sp1. Hornberger LK, None: Heart and Stroke Foundation of Canada, Research Scholarship ($250,000 2001 - 2006).


Fetal response to maternal...

Functional and humoral correlates during the first 24 hours after cardiopulmonary bypass procedures in children. Dr. Andrew N. Redington: British Heart Foundation (£154,000 2000 - 2002).

Haemodynamic predictors of poor functional outcome after Fontan procedures. Dr. Andrew N. Redington, Prof. M. deLeval, Prof. J. Deanfield: British Heart Foundation (£167,000 2000 - 2002).

Interdisciplinary program in cardiovascular development and disease. Rabinovitch M: Canadian Institute of Health Research ($268,931 2001 - 2006).


Mechanisms of cardiac allograft tolerance induced during immaturity. West LJ: The Heart and Stroke Foundation of Ontario (per year) ($65,000 2001 - 2003).


Ms Natalia Lobach. West LJ: Samuel Lunenfeld Summer Student Program ($9,999 2001).


Pharmacokinetic analysis of basiliximab as induction immunotherapy in paediatric heart transplant patients (Research grant - $22,000 preparatory grant). West, LJ: Novartis Canada Inc. ($22,000 2002).


Project Director Ontario consortium for cardiac imaging-combined industry and government grant for 5 years $4000,000. Three dimensional echocardiography: The change in left A-V valve morphology following AVSD repair. Contrast echocardiography in Paediatrics-role in the evaluation of bidirectional cavopulmonary shunts and other defects (2001-2005). Smallhorn JF: Ontario consortium for cardiac imaging-combined industry and government grant. ($400,000 2001 - 2005).


Right ventricular function in heart transplantation. Dr. Andrew N. Redington, Mr. S. Large: British Heart Foundation (£135,927 2000 - 2002).

Salary support for post-doctoral fellow, Dr Frank Fan - Restracomp funding. West, LJ: Hospital for Sick Children Research Institute ($9,999 2002 - 2003).

The Division of Clinical and Metabolic Genetics is recognized nationally and internationally for its contributions to clinical and basic genetics. Recent clinical initiatives have included the development of clinics such as the Skeletal Dysplasia Clinic and the Metabolic Bone Disease Clinic, operating in conjunction with the Department of Orthopaedics and Division of Endocrinology respectively, as well as a Metabolic Transition Clinic to prepare adolescent genetic-metabolic patients for the changeover from a paediatric to an adult health care facility.

Research endeavours in the Division are actively expanding in several areas including appraisal of population screening for familial dysautonomia and Canavan disease, trials of enzyme replacement therapies for selected metabolic disorders and studies of the role of genomic imprinting in overgrowth syndromes. A database has been established to track genetic diseases and mutations in the Arab population. The third Annual Starbucks Clinical Genetics Research Studentship Award was won by Susan Hiraki who is studying patient perceptions regarding the consent form for DNA Testing/Banking.

The Division has also participated in numerous educational activities for physicians and other health care practitioners. The Annual Prenatal and Medical Genetics Update organized by Dr. Chitayat took place in May 2002. The Division’s participation in Paediatric Update was organized by Dr. A. Teebi. The Division also held a Divisional Retreat in May 2002.

The MSc Program in Genetic Counselling graduated its third class of students. All graduates of this Program have been successful in gaining employment in their chosen profession. This program is a collaborative venture involving the Division of Clinical and Metabolic Genetics at HSC and the Department of Molecular and Medical Genetics, University of Toronto.

**Division of Clinical Genetics**

**Faculty** Rosanna Weksberg– Chief, Melanie Bedford, David Chitayat, Joe T.R. Clarke, Annette Feigenbaum, Stephen Meyn, Marjan Nezarati, Ahmad S. Teebi, Sheila Unger, **Part-time Staff** Alan Berzen, Karen Chong, Leona Fishman, **Clinical Fellows** Pranesh Chakraborty, Aneal Khan, Komudi Siriwardena

Acknowledgments

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**Publications**


Koren G, Cohn T, Chitayat D, Kapur B, Remington G, Reid DM, Zipursky RB: Use of atypical antipsychotics during pregnancy and...


books and book chapters


research investigations
A screening strategy for a genetic 
subtype of schizophrenia. Bassett AS, 
Weksberg R, Chow EWC, Brzustowicz L, Siu S, 
Zipursky R, Husted J: Medical Research 

ALID-06-01:A multicenter, 
multinational open-label extension 
study of the safety and efficacy of 
recombinant human alpha-L- 
iduronidase in patients with 
mucopolysaccharidosis I (MPS I). 
Clarke JTR, Mahuran JJ: Biogen/Genzyme 
LLC ($207,578 2001 - 2002).

Canadian centre for applied cancer genetics. 
Malkin D, Weksberg R: Canadian 
Foundation for Innovation ($1,720,000 
2002 - 2006).

Development of Fabry-specific 
disease-severity questionnaire for 
patients. Clarke J: Transkaryotic 
Therapies Inc. ($76,344 2002 - 2004).

DSB repair, telomeres and the 
chromosome instability syndromes. 
Meyn MS: National Cancer Institute of Canada ($136,000 2001 - 2004)

Elucidation of the pathways 
involved in degradation of mutant 
lysosomal enzymes. Mahuran D, Clarke 
JTR, Brown E, Callahan J, Withers S: PENCE 
Protein Science Research Funding 
($480,000 2002 - 2005).

Genomic imprinting in a tumor 
predisposing region of 
chromosome band 11p15. Weksberg 

Mechanisms for the degradation 
and rescue of mutant lysosomal 
enzymes. Clarke JTR, Mahuran D, Callahan 
JW, Lukacs G: Sanfilippo Children's Research 
Foundation ($123,400 2001 - 2003).

Physical and psychiatric phenotype 
of adults with congenital heart 
defects and schizophrenia. Bassett 
AS, Weksberg R: Ontario Mental Health 
Foundation ($60,000 1999 - 2001).

Potential predictor of 
Schizophrenia in a genetic high 
risk sample: Ontario project. Chow 
E, Bassett A, Weksberg R, Zipursky R, Mikulis D: 
Ontario Mental Health Foundation (Bill 
Jefferies Schizophrenia Endowment 
Fund) ($80,000 2002 - 2003).

TKT010:A Phase III randomized, 
double-blind, placebo-controlled, 
multi-center clinical trial of alpha- 
galactosidase. A replacement 
therapy in patients with Fabry 
disease. Clarke JTR, Iwanochko M, Wherrett J: 
Transkaryotic Therapies Inc. ($165,568 
2001 - 2002).
The Division of Clinical Pharmacology and Toxicology focuses on a wide range of drug-related issues in pediatrics. The division is one of the largest and the most active pediatric pharmacology programs internationally. Our major clinical activities include a consultation service, the Motherisk program (the counseling and information center for drug and other exposures during pregnancy and lactation), and the Ontario Regional Poison Information Center. The division is one of the two major training sites of the Royal College-accredited Clinical Pharmacology Residency program of the University of Toronto. Our research programs focus on drug metabolizing enzymes and its regulation, drug transporters, placental and mammary gland drug transport and metabolism, and reproductive toxicology and teratology.

**publications**


The Emergency Department at the Hospital for Sick Children provides acute care to children who are ill or who have been injured. We are both the primary care centre for children in Toronto, plus the tertiary referral centre for the GTA, in addition to being the designated Paediatric Trauma Centre for the GTA. Over the last year, we have worked with EMS, CCU, and NICU to begin the development of a paediatric transport system for the GTA, which is a vital component to the provision of care to acutely ill or injured children.

The Division has an active 3 year Academic Fellowship program. The Royal College of Physicians and Surgeons has recently accredited our fellowship program. In addition, we have a number of clinical departmental fellows from around the world spending a year with us, further developing their paediatric emergency medicine skills. The division has run approximately 12 Paediatric Life Support Courses (PALS or APLS) over the last year. We also have a well developed half-day for educational activities for trainees and all Health care providers in the Emergency Department.

Research in the Division remains clinically focused, covering a wide range of topics from respiratory disease acute care management, orthopaedic ankle injuries, pain and sedation, to drug errors. Two additional clinician investigators have joined the division, Dr. Kathy Boutis and Dr. Dennis Scolnik. An increase in clinical research activities has resulted. Research done within the division continues to be presented nationally and internationally, with publication in peer reviewed journals.

**Publications**


**Books & Books Chapters**


**Research and Investigations**


Reducing prescription errors in a pediatric emergency department - a randomized controlled trial. Kozer E, Scolnik D: Trainee’s Start-up Fund ($2,000 2001 - 2002).


2001-2002 was an extremely active and productive year for the Endocrine Division. The major accomplishments include: (i) completion of the ambulatory Centre for Endocrinology and Diabetes incorporating the Endocrine Testing as well as Diabetes Day Care facilities; (ii) further development of specialty clinics, including Intersex, Calcium and Osteoporosis and the Girls and Young Women's Reproductive Health Clinic. These multidisciplinary clinics bring together endocrinology and other health professionals integral to the complex medical and surgical needs of these patients; (iii) enhancement of the Diabetes Team include an increased pump program, outreach and educational opportunities; (iv) successful competition for research funding and ongoing studies in the areas of diabetes prevention, eating disorders in girls with type 1 diabetes, mechanisms of early diabetic nephropathy, cell biology of glucose uptake and insulin signalling, neurocognitive outcomes in congenital hypothyroidism. The number and excellence of residents and fellows entering the program from many parts of the world highlight the success of the Pediatric Endocrinology Training Program.

publications


books and book chapters


research and investigations

A 24-week randomized, double-blind, active-controlled multicentre study to evaluate the safety and efficacy of rosiglitazone when administered to pediatric patients with type 2 diabetes mellitus. Hamilton J: GlaxoSmithKline ($20,000 2001 - 2002).

A comparison of two family-based interventions for girls with type 1 diabetes and problematic eating attitudes and behaviours. Daneman D: Canadian Diabetes Association ($75,000 2001 - 2003).


Fetal Alcohol Syndrome: Oxidative Stress and Innovative Therapies. Brien, J., Rovet J: Canadian Institutes of Health Research New Emerging Team Grant ($1,250,000 2002 – 2007)


GLUT4 activation in insulin action and insulin resistance. Klip A: Canadian Diabetes Association Grant-In-Aid ($150,000 2002-2004)


Hormonal regulation of p38 MAPK and its implications for glucose transport. Klip A: Canadian Institutes of Health Research Operating Grant ($663,610 2002-2007)


School attendance in children with type 1 diabetes. Daneman D: Eli Lilly Canada (unrestricted grant) ($26,000 2001).

Spatial-temporal resolution of the intracellular traffic of glucose transporter. Klip A: Canadian Institutes for Health Research, Operating Grant ($663,610 2000-2005)

The Canadian/European trial of nicotinamide to prevent insulin dependent diabetes mellitus. Whererett D: Medical Research Council of Canada ($36,000 1998 - 2002).

The genetics and neuroendocrinology of short stature. Hamilton J: Lilly International Growth Study (GeNeSIS) ($50,000 2001 - 2002).

Thyroid hormone and infant visual development. Rovet J: Canadian Institutes of Health Research ($328,000 2001 – 2005)


Type 1 Diabetes TrialNet - The Impact of GAD on Preservation of β Cell Function. Whererett DK, Mahon J, Daneman D: National Institutes of Health ($1,960,000 2001-2008)
The Division of GI/Nutrition has a fully integrated program in paediatric clinical nutrition, luminal gastroenterology, hepatology and transplantation making it one of few in North America with total paediatric ‘GI-coverage’.

The Division continues its proud heritage as the pre-eminent Canadian academic GI/Nutrition Fellowship Program. The program offers one year of clinical training and two research years. The clinical component includes a wide array of experiences including procedures (endoscopy, manometry, liver biopsies and calorimetry); in-patient management (transplant, GI and nutrition), ambulatory clinics (including hepatology, home-TPN, dysphagia, general GI, hepatology and nutrition), evidence-based rounds and training in ethics and communication. Many of our trainees in the research program (two years) combine a formal degree-granting program (MSc or PhD) with their research fellowship years.

The Division hosts eleven full-time staff, two part-time and two-cross-appointed members. Our research spans the spectrum from basic and translational to patient-based in such areas as cystic fibrosis, inflammatory bowel diseases, nutrition and hepatology. Funding support (over two million dollars annually) includes grants from the CIHR, NIH, CF Foundation, Crohn’s and Colitis Foundation, the HJ Heinz Co. Foundation, Canadian Digestive Disease Foundation, the CDC, Health Canada and more.

publications


books and book chapters

research and investigations


An open-label, fixed dose study to assess the efficacy, safety, and tolerability of the combination of intron a plus Ribavirin in pediatric subjects with chronic Hepatitis C (Study #SCH 18908). Roberts EA, Principal Investigator in Toronto: Schering-Plough ($16,524 2000 - 2002).


Bioavailability of NCAC in the neonatal piglet on TPN. Ball RO, Pencharz PB: Canadian Institute of Health Research / Industry ($97,770 2001 - 2005).


Development of a blood collection cassette. SH ZLOTKIN: Dept. of Health and Human Services, Centre for Disease Control ($300,074 2000 - 2003).

DHA in Cystic Fibrosis Mouse Model. Peter Durie: Genzyme Corporation (US $20,000 2001 - 2002).


Host epithelial cell responses to attaching-effacing gastrointestinal pathogens. Sherman P: Canadian Institutes of Health Research ($679,517 2002 - 2007).


Project 1: Molecular basis of the cystic fibrosis phenotype (ZP50 DK49096-06), (US Funds). Durie PR, Tsui L-C (Co-Director): National Institutes of Health SCOR Grant (NIDDK) ($675,000 1999 - 2004).


The use of indicator amino acid oxidation to determine amino acid requirements. Pencharz P, Ball R: Medical Research Council ($554,560 2000 - 2005).

The Division of HAEMATOLOGY/ONCOLOGY

The hematology/oncology/bone marrow transplantation (BMT) cluster provides care for children with cancer and non-malignant disorders of the blood, and children who require stem-cell transplantation. Approximately 300 children (<18 years of age) with newly diagnosed cancer are registered in the pediatric oncology program each year, representing 25% of all cases of pediatric cancer seen in Canada annually. The BMT program is the designated centre for pediatric stem-cell transplantation in Ontario and have performed a total of 70 transplants in the past year. Other very large programs exist in bleeding and clotting disorders and in the hemoglobinopathies e.g. sickle cell syndromes and the thalassemias. The Division is one of the largest institutional members of the Children's Oncology Group (COG), and registered a total of 72 children on COG initiated cooperative clinical trials in 2001, representing a doubling of patient enrollment over previous years and signalling a deliberate strategy to enter, wherever possible, children with cancer on well-designed clinical trials.

Highlights of the past year include reorganization of the cluster into five clinical sections under the leadership of Dr. Victor Blanchette (hematology), Dr. John Doyle (BMT), Dr. Eric Boffet (neuroOncology), Dr. Alberto Pappo (solid tumors) and Dr. Sheila Weitzman (lymphoma/leukemia). Dr. Alberto Pappo, a senior pediatric oncologist with a career interest in pediatric sarcomas, was recruited to the Division from St. Jude Children's Research Hospital during the past year. Other new physician recruits include Dr. Ahmed Naqvi (clinician specialist) and three clinician scientists/scientist-track physicians: Dr Eyal Grunebaum (BMT) and Drs. Meredith Irwin and Annie Huang (pediatric oncology). Dr. Annie Huang, a member of the NeuroOncology Section is one of the first two recipients of awards in translational cancer research from the Charles H. Hollenberg Translational Research Fund, a partnership of Cancer Care Ontario, the CIHR and Eli Lilly Canada.

The Division boasts an active international clinical/research pediatric hematology/oncology fellowship program with 23 fellows in 2001. Research in the Division is active and expanding. Highlights included Canada Foundation for Innovation Awards to Drs. David Malkin (Cancer Genetics) and Sylvain Baruchel (New Agents and Innovative Therapies Program), and a CIHR Award to Dr. Yigal Dror for basic science studies in children with myelodysplasias and rare pediatric bone marrow failure syndromes.

publications


Fouladi M, Stempak D, Gammon J, Klein J, Grant R, Greenberg ML, Koren G, Baruchel S: Phase I Trial of a twice-daily regimen of amifostine with ifosfamide, carboplatin,


BOOKS & BOOK CHAPTERS


RESEARCH AND INVESTIGATIONS


A Pharmacokinetic Study of Prophylactic Doses of FRAGMIN in Children who are at Increased Risk for Thromboembolic Events. Maureen Andrew, MD, Patricia Massicotte, MD, The Hospital for Sick Children: Pharmacia Canada Inc. ($335,637 2000 - 2002).


A prospective, randomized trial to compare two regimens of prophylaxis in older boys with severe haemophilia A. Carcao MD, Blanchette V (Co-Investigator), Feldman BM, Babyn P, Oh P, Hedden D: Canadian Haemophilia Society Research Program ($98,834 2001 - 2003).


Analysis of E2F-1 activation of p73. Dr. Meredith Irwin, Dr. William Kaelin: National Cancer Institute ($122,995 2001 - 2002).

Angiogenesis (bFGF, VEGF) and Ras activation in neurofibromatosis type 1 associated plexiform neurofibroma. Baruchel S, Parkin P, Gesundheit B, Becker L, Guha A: The Hospital for Sick Children Seed Grant Competition ($37,500 2000 - 2002).

Apoptosis in IMFS. Yigal Dror: HSC Research Institute Start-up Money from Donor Directed Research Funds to Division of Hematology/Oncology through HSC Foundation. ($86,000 2000 - 2002).


Cardiac iron loading and gene expression. Olivieri NF: Heart and Stroke Foundation of Canada T3157 ($147,000 1999 - 2002).


Dose escalation prophylaxis in boys with severe haemophilia B. This study is under consideration of funding by Wyeth Ayerst/Genetics Institute. Feldman B, Blanchette V (Co-Principal Investigator), Rivard G, for the International factor IX prophylaxis study group: Genetics Institute ($450,000 2001 - 2006).


Magnetic resonance imaging studies of severe haemophilia A patients on a randomized trial comparing two regimens of recombinant factor VIII prophylaxis. Carcao, MD, Blanchette V (Co-Principal Investigator), Feldman BM, Babyn P: Bayer Canada ($140,183 2001 - 2003).

Minimal residual disease in the stem cell collections (pre and post CD34 selection) of patients with neuroblastoma that have undergone high-dose therapy with peripheral blood stem cell rescue. Doyle J, Zielenska M, Thorner P, Sharathkumar A: AMGEN ($5,001 2001 - 2002).

Molecular determinants of tumor formation in Li-Fraumeni syndrome. Malkin D: National Cancer Institute of Canada ($336,000 2001 - 2004).


Pharmacokinetics of Kogeneate(R). Carcao MD, Blanchette V (Co-Principal Investigator), Lillicrap D: Bayer Canada ($85,501 2001).

Phase I trial of Temodal using an extended continuous oral schedule in recurrent pediatric brain tumors. Baruchel S: Schering-Plough Canada ($90,000 1999 - 2002).


Psychological Outcomes and Quality of Life after Pediatric Bone Marrow Transplantation. Saunders EF, Barrera M: National Cancer Institute of Canada ($240,000 2000 - 2003).


The Division of Immunology/Allergy has recently received recognition for its excellent national and international contribution to the diagnosis of primary immunodeficiency (PID) from the Jeffrey Modell Foundation. This American foundation chose our program as one of five sites world-wide and will provide annual funding in perpetuity for the diagnosis of PID.

Teaching in our division has been assessed recently by surveyors of the Royal College who gave full approval and found no weaknesses in our training program.

Research in the division continues to flourish, by means of funding and publications. Of special note, are the discoveries concerning novel types of primary immunodeficiency, the role of Eph receptor in the immune system and the establishment of a PNP deficiency knockout mouse model for gene therapy.

Research and investigations


Canadian Center for Primary Immunodeficiency. Roifman CM: Jeffrey Modell Foundation ($37,000 in perpetuity 2001).


Role of Eph receptors in the immune system. Roifman CM: Canadian Institute of Health Research (CIHR) ($300,084 2001 - 2004).

The Division of Infectious Diseases plays a clinical and research leadership role, locally, nationally, and internationally. We are a resource for issues related to infectious disease outbreaks, infection control and the specialized areas of HIV, congenital infections, management of infectious complications of transplants, and the ever-increasing problem of multi-drug resistant tuberculosis. Our TB clinic, designed for appropriate biocontainment, continues to expand.

In the area of education, our Division continues to play a leadership role in the Infectious Diseases section of the Royal College and in many areas of Continuing Medical Education.

Infection Control studies include the clinical and molecular epidemiology of pediatric nosocomial infections. Other continuing research initiatives include multicentered Pediatric HIV studies related to maternal-to-child transmission, and studies on new antiretrovirals, vaccine studies and studies on host susceptibility to viral infections. Multicentered trials on the diagnosis and prevention of infections in transplant patients are ongoing.

publications


**Books & Book Chapters**


**RESEARCH AND INVESTIGATIONS**


A phase III randomized, controlled, primary vaccination study to assess the consistency of 3 production lots of Smithkline Beecham Biologicals combined Measles Mumps Rubella-Varicella Vaccine 208136 (MeMuRu-Oka). Ford-Jones EL, Corporate, multicenter: Glaxo Smith Kline ($10,125 2001 - 2002).


Collection of RSV Isolates - please note scientific review complete only - also possible additional $3000 for phase II. Ford-Jones EL and Petric M: Aventis Pasteur ($6,500 2002 - 2003).


New Directions in EBV/PTLD Collaborative Research in Transplant Patients. Allen U, EBV and Associated Viruses Collaborative Research Group: Research Institute, Hospital for Sick Children ($25,000 2002 - 2003).


Safety, tolerability and immunogenicity of 3 different formulations of a liquid hexavalent combination vaccine (HR5I) Hib conjugate, recombinant HBsAg, diptheria toxoid, tetanus toxoid, 5-component acellular pertussis vaccine, and inactivated poliovirus 1, 2, 3) when administered to healthy hepatitis B vaccine naive infants at 2, 4, 6 and 12-14 months. (Protocol 003-01). Merck & Co. Inc., Ford-Jones EL (HSC Vaccine Investigator): Merck Frosst Canada & Co. ($217,420 2001 - 2003).

The Division of Neonatology was pleased to welcome Drs. Jaques Belik and Jae Kim to the full-time faculty at the Hospital for Sick Children, and Drs. Shaheen Doctor and Eugene Ng to the part-time faculty at the Sunnybrook and Women's College Health Sciences Centre.

The three level III NICUs at the Hospital for Sick Children, Mt. Sinai Hospital and the Sunnybrook & Women's College Health Sciences Centre continue to experience severe staffing difficulties, in parallel with the increased demand for tertiary beds in the region and a general increase in patient acuity within the units. All three units have been further compromised over the last year due to closures relating to outbreaks of infection. Despite the best efforts of the three NICUs to minimize patient transfers out of region during these outbreaks, an increase in patient deferrals out of region and out of country did occur. It was fortunate that the number of Neonatal Transport teams, based at the Hospital for Sick Children, had been recently increased, and were thus able to cope with the increased demand for their services. Active staff recruitment continues at all three centres.

The Division continues to train the largest number of subspeciality trainees in Neonatology of any centre in Canada. The recently observed and welcome increase in the number of Canadian trainees continues. Various members of the Division have obtained new or continuing peer-reviewed research support for clinical and laboratory research in the last year.

**publications**


Ohlsson A: No indications of increased quiet sleep in infants who receive care based on the Newborn Individualized Care and Assessment Program (NICDAP), Acta Paediatrica: 2002: 91: 262-263.
Tough SC, Newburn-Cook C, Johnston DW, Svenson LW, Rose S, Belik J: Delayed childbearing and its impact on population rate changes in lower birth weight, multiple birth, and preterm delivery.
research and investigations

“Teaching first year residents to intubate does a structured instructional program improve performance?”

“Teaching first year residents to intubate does a structured instructional program improve performance?”

A dose-ranging study to assess the effect of inhaled corticosteroids in ventilator-dependent preterm neonates.

A multicentre randomized controlled trial of amnioinfusion.

An RCT: Two hemoglobin thresholds for transfusion in newborns <1000 grams (PINT: Preterms in Need of Transfusion).
Kirkalani H, Site Investigator: Asztalos E: Canadian Institutes of Health Research ($293,880 2000 - 2003).

Canadian Cochrane Network and Centre.

Canadian Cochrane Network and Centre.

Canadian Institute of Health Research ($1,000,000 2000 - 2005).


Canadian Research Chair in Respiration. Post M: Canadian Institutes of Health Research Awards ($200,000/year 2000-2007).


Clinician Scientist Training Award.
Jankov R: The Hospital for Sick Children ($60,000 2001 - 2005).

Continuous infusion of heparin to prolong the patency of peripherally placed prcutaneous central venous catheters (PCVC): A randomized controlled trial.

Core. Tanswell AK (Director): Medical Research Council Group, Grant #MGC-25029 - Operating Grant (214,260), Equipment Grant (36,675) ($250,935 1999 - 2004).

DIAMOND - “Minimally invasive management of Rh alloimmunization”.

Discharge Antibiotic Resistance in Neonates (DARN).

Early thyroid hormone deficiencies: a comparison of congenital hypothyroidism and hypothyroxinemia of prematurity.

Epidemiology of colonisation with antimicrobial-resistant flora in low birthweight infants at hospital discharge (The DARN study-Discharge Antibiotic Resistance in Neonates).

Evidence-based practice identification and change (EPIC).

Heparin infusion for percutaneous central venous catheters: HIP Trial.

Hyperglycemia and adverse pregnancy outcome (HAPO Study).
Metzger B: NIH (NICH&NIDDK) & ADA ($11,000,000 1999 - 2004).

Inflammatory mediated damage to fetal bowel in gastrochisis.

Local anaesthesia (topical amethocaine gel (Ametop) for intramuscular injection in term neonates: a randomised controlled trial.

Mechanisms and mediators of pulmonary oxygen toxicity. Tanswell AK: Grant #MGP-15276 - Operating Grant ($412,110 1999 - 2004).


Multiple vs. single courses of antenatal corticosteroids for...

Myosin light chain phosphatase and the control of pulmonary and systemic vascular resistance from fetal to adult life. BELIK, J: Canadian Institutes of Health Research Grant ($79,649 2001 - 2004).

NEC Steps Trial. Langer, J, Moore AM (Site co-investigator): National Institutes of Health ($750 US per patient 2002-ongoing)


Role of epithelial-mesenchymal interactions in lung development. Post M (PI): Canadian Institutes of Health Research Operating Grant ($150,796/yr. 1999-2004).


The continued heavy clinical load and recent departure of Drs Balfe and Arbus, contributed to a very busy year. Nonetheless academic activities within the Nephrology Division continued to thrive.

Dr Tino Piscione joined the division as a clinician scientist, and will continue to study renal morphogenesis – joining Dr Susan Quaggin’s laboratory.

Dr Norman Rosenblum successfully renewed his grant with Kidney Foundation of Canada for study of renal morphogenesis, and also developed a new model for study of renal cystic dysplasia. In addition, he spearheaded a successful application by a multicenter group to obtain funding for clinician scientist training from the Canadian Institute for Health Research. This grant will be matched by funds from the Hospital for Sick Children Foundation and the British Columbia Research Institute for Children’s and Women’s Health.

New clinical activities included integration of the Therapeutic Apheresis program under the Nephrology divisional administration. Also, a plan has been devised for initiation of the first Paediatric Home Nocturnal Haemodialysis program in North America.

Dr Denis Geary was reappointed for a second 5-year term as divisional leader.

publications


books & book chapters

research and investigations

Canadian Child Health Clinician-Scientist Program. Rosenblum, ND: Canadian Institutes of Health Research ($300,000 2002 - 2008).

Canadian Child Health Clinician-Scientist Program. Rosenblum, ND: British Columbia Research Institute for Children’s and Women’s Health ($150,000 2002 - 2008).

Canadian Child Health Clinician-Scientist Program. Rosenblum, ND: The Hospital for Sick Children Foundation ($300,000 2002 - 2008).


The major foci of the clinical activities of the Neurology Division are epilepsy, stroke, headache, neurometabolic disease, neuromuscular disease, sleep disorders, movement disorders, multiple sclerosis, autism, developmental disorders and functional neuroimaging. The Neurology Division has a Royal College accredited training program in Child Neurology as well as postdoctoral training programs in epilepsy, stroke, and developmental pediatrics. The latter is in conjunction with the Bloorview MacMillan Center. In addition, there are a number of graduate students and postdoctoral fellows in clinical neurophysiology and molecular and cellular neurobiology. The research foci of the Neurology Division are epilepsy (both clinical and basic research), magnetoencephalography, stroke, dyslexia, autism, burden of disease and quality of life, attention deficit disorder/hyperactivity, muscular dystrophy, multiple sclerosis, fatty acid oxidation disorders, and molecular and cellular neurobiology.

publications


books & book chapters


research and investigations


Cerebral palsy research. Logan W: Grotto Cerebral Palsy Foundation ($90,000 1996 - 2001).


Commercial applications of gene discovery in the progressive myoclonus epilepsies. Minnassian B: Canadian International Development Agency ($30,000 2002 - 2003).


Generation of carnitine transporter OCTN1 knock-out mouse. Tein I: Hospital for Sick Children Foundation Grant ($60,000 2002 - 2003).


Localizing brain language areas in a normal pediatric population: A comparison of functional magnetic resonance imaging (fMRI) and magnetoencephalography/magnetic source imaging (MEG/MSI) techniques. Logan WJ, Pang E: Paediatric Consultants ($5,000 2001 - 2002).


mGluR4-mediated mechanisms of absence seizures. Snead OC, Hampson D: Medical Research Council of Canada ($249,390 1999 - 2002).

Mitochondrial Encephalomyopathies - MELAS Dichloroacetate Trial. De Vivo DC, Tein I (External Medical Review and Advisory Committee): National Institutes of Health Grant (NICHD) ($1,144,125 1999 - 2004).

Myoclonus Epilepsy. Minassian B: Canadian Institute of Health Research ($866,680 2000 - 2005).


Research Fellowship Award (Dr. M. Frantseva). Snead, OC: Canadian Institute of Health Research - Fellowship Award ($38,500 2001 - 2004).


The Children's Stroke Project. deVeber GA: Anonymous Children's Foundation ($1,625,000 2001 - 2006).


Division of PAEDIATRIC MEDICINE

faculty Patricia Parkin - Chief, Tara T. Baron, Stacey E. Bernstein, Paul T. Dick, Jeremy Friedman, Beth D. Gamulka, Robert I. Hilliard, Dirk Huyer, Bernice R. Krafcik, Colin Macarthur, Sanjay Mahant, Marcellina Mian, Elena Pope, Michelle K. M. Shouldice, Susan E. Tallett, Michael Weinstein, Nancy Young

major part time Mark Feldman, Marvin Gans, Saul Greenberg, Nhun T. C. Ho, Moshe M. Ipp, Sheila Jacobson, Christine Kalbfleisch, Michael Peer, Norman Saunders, Darryl Wolski


fellows Susan Bannister, Catherine Birken, Louise Capra, Astrid Guttmann, Patricia Lenane, Alisson MacPherson, Amy Ornstein

The clinical programs of the Division of Paediatric Medicine provide care to children admitted to the Paediatric Medicine In-patient Unit and children attending Ambulatory Clinics in Dermatology, Paediatrics, and Suspected Child Abuse and Neglect (SCAN). The Division underwent a successful 5-Year Review.

Faculty participate in education of trainees at all levels, including medical students, paediatric residents and fellows. Academic fellows have pursued post-graduate training in Clinical Epidemiology and Medical Education. This year’s Awards Day Celebration recognized Dr. Beverly Kupfert, runner-up for the RHA Haslam Pre-clerkship Teaching award, Dr. Marvin Gans as a runner-up for the Clerkship Teaching Award, Dr. Tara Baron as the winner of the Clerkship Teaching Award, Dr. Jeremy Friedman, winner of the Harry Bain Teaching Award, Dr. Sheila Jacobson, runner up for the Marvin Gerstein Teaching Award, Dr. Michael Peer, winner of the Marvin Gerstein Teaching Award and Dr. Michelle Shouldice, runner up for the Subspecialty Teaching Award. Dr. Marcellina Mian was promoted to full Professor.

Divisional research activities are broad and range from studies of the management of common paediatric problems, assessment of quality of life in developmentally delayed children, evaluation of the hospitalist model, and injury prevention. Members of the division have supervised residents, fellows, and graduate students, presented work at national and international meetings (63 presentations), 39 published abstracts at national and international scientific meetings, secured peer-reviewed funding for $2,342,920.00 and published 58 manuscripts in high-impact peer-reviewed clinical journals. Dr. Moshe Ipp and Dr. Colin Macarthur supervised Dr. Eyal Cohen who won the Core Pediatrics Research Award at the Department of Paediatrics Annual Awards Day. Dr. Astrid Guttmann was awarded a CIHR Clinical Research Fellowship under the supervision of Dr. Teresa To and Dr. Paul Dick. She was also the first place winner of Subspecialty Paediatrics Clinical Research at the Department of Paediatrics Annual Awards Day. Dr. Alison Macpherson was awarded the Best Oral Presentation at the 6th World Conference, Injury Prevention and Control in Montreal.

publications
Dell SDM, Parkin PC, Macarthur C: Childhood asthma admissions: Determinants of short stay. Pediatric Allergy and Immunology: 2001: 12: 1-5.


research and investigations


A multicentre, single arm prospective, open label study to assess the safety of Elidel (SDZ ASM 981 - pimecrolimus) cream 1% in patients with atopic dermatitis (Rainbow study). Krafchik BR, Pope E: Novartis Pharmaceuticals Canada Inc ($7,000 2002).


Angiogenesis (bFGF, VEGF) and RAS activation in neurofibromatosis type 1 associated plexiform


Case verification for paediatric asthma surveillance. To T, Cicutto L, Dell S, Dick PT, MacLusky I: Health Canada ($30,000 2002 - 2003).


Faculty development for community pediatric teachers. Leslie K, Hilliard RJ, Schneider R, Tallett SE: Dean’s Excellence Fund for Undergraduate Medical Education ($16,300 2002 - 2003).


Investigator Award (Salary & Benefits). To T: The Canadian Institutes of Health Research & The Ontario Ministry of Health and Long Term Care ($375,000 2001 - 2005).


Tacrolimus pharmacokinetics in pediatric atopic dermatitis patients after topical administration of Protopic (tacrolimus) ointment 0.03%. Krafcik BR: Fujisawa Healthcare Inc ($72,450 2001).


The progression of parental bereavement. Barrera M., D’Agostino N, Nicholas D, Schneiderman G, Tallett S: The Hospital for Sick Children Research Institute


Weston Grant for Pediatric Dermatology for the study “The efficacy and safety of intravenous pulse steroids compared to standard oral steroids in the treatment of problematic hemangiomas in infants: A randomized controlled trial”. Pope E, Krafcik B, Weinstein M: Society for Pediatric Dermatology ($20,000 2002 - 2004).
The Respiratory Medicine Programme provides comprehensive care for the full range of paediatric pulmonary disease. Overall clinical responsibility is assumed for children with complex asthma, cystic fibrosis, interstitial lung disease, and chronic respiratory insufficiency in infancy due to prematurity and/or congenital malformations. We also provide consultation support for the Hospital in all areas of paediatric respiratory disease. We maintain an ongoing follow-up programme for children with chronic respiratory insufficiency, and who are technologically dependent. The Sleep Laboratory (the only dedicated paediatric sleep laboratory in Ontario) provides ongoing follow-up in care for children with sleep apnea, sleep related respiratory insufficiency, as well as being affiliated with Divisions of Neurology and General Paediatrics in caring for children with complex neuro-behavioural sleep disorders. The Division is part of the Toronto Lung Transplantation Programme, providing pre- and post transplantation care for children with end-stage lung disease. The Division also provides a flexible bronchoscopy programme in the diagnosis of children with interstitial lung disease, anatomical abnormalities and infections in the immunocompromised host.

The training programme has independent Royal College of Physicians and Surgeons of Canada accreditation and provides the full range of training that is required for Board Certification in Pediatric Pulmonology in the United States. As well as offering training to Royal College of Physicians and Surgeons of Canada eligible candidates, it also trains physicians from abroad.

The major research foci include clinical and basic science studies in aerosol therapy and exercise physiology, asthma, the molecular biology of electrolyte transport in the lung epithelium, novel genes in lung development and the NIH Childhood Asthma Management Programme Continuation Study as well as a number of smaller clinical studies.

Publications


Books & book chapters

Research and investigations
Aerosol Laboratory Support. Coates AI: Research Institute, Hospital for Sick Children ($35,000 2001 - 2002).

CAMP-CS: The Hospital for Sick Children Clinical Centre for Study of a Childhood Asthma Management Program - Continuation Study. MacLusky I, John Hopkins University Centre for
Clinical Trials: National Institutes of Health National Heart, Lung and Blood Institute ($2,000,000 1999 - 2003).


Case Verification For Paediatric Asthma Surveillance.
Teresa To, S. Dell, P. Dick, L. Cicutto, I. MacLusky: Ontario Ministry of Health and Long-Term Care ($30,000 2001 - 2002).

Case Verification For Paediatric Asthma Surveillance.
Teresa To, S. Dell, P. Dick, L. Cicutto, I. MacLusky: The Hospital for Sick Children Asthma Seed Grant ($7,000 2001 - 2002).

Does physical activity make a difference to lung health in cystic fibrosis? Coates AL: Canadian Cystic Fibrosis Foundation ($149,743 2000 - 2003).


Glucocorticoid receptor and glucocorticoid-responsive genes in developing lung. Sweezey NB, Kaplan F, Genetics, McGill University: Canadian Institutes of Health Research (formerly MRC Canada) ($273,540 2000 - 2003).

NA4448 Pulmonary edema’s effect on epithelial ion and fluid transport. O’Brodovich H: Canadian Heart Foundation (Heart and Stroke Foundation of Ontario) ($159,920 2000 - 2002).


The Division of Rheumatology has had a significant increase in the number of patients attending clinics. One half-day new consult clinic was recently added to accommodate the increased numbers of referrals and the number of general rheumatology follow-up clinics were increased by two half-day clinics per month.

Dr. Ron Laxer received the prestigious Council Award of the College of Physicians and Surgeons of Ontario in recognition of his qualities that meet society’s expectations of an “ideal physician”.

Ms. Elizabeth Morais, Rheumatology Information Co-ordinator, received the Dr. Robert Salter Humanitarian Award for her demonstration of compassion and humanitarianism with children, parents and colleagues at HSC.

This year two practitioners graduated from the Division of Rheumatology PT/OT Practitioner Program at HSC, as well as an OT Practitioner who will return to work in the Sudbury Outreach Clinic.

The Division of Rheumatology held its first Juvenile Arthritis Education Day for parents and children at The Hospital for Sick Children. The event was extremely well attended and included talks and workshops that provided lively discussion and received positive feedback from all who attended.

Dr. Brian Feldman was awarded a Tier II, Canada Research Chair in Childhood Arthritis in February 2002.

At the American College of Rheumatology Meeting in November 2001, Dr. Deborah Levy, Rheumatology Fellow, won the Paediatric Rheumatology Research Award for her abstract entitled “Giant aneurysms in Kawasaki disease: Is natural history affected by anticoagulation?”. She also won the American Academy of Pediatrics Section of Rheumatology, Earl J. Brewer Travel Grant for her podium presentation on “Thromboembolism in pediatric systemic lupus erythematosus (SLE) patients with antiphospholipid antibodies.

Dr. Shirley Tse, Rheumatology Research Fellow, received the Canadian Rheumatology Association Best Basic Science Presentation Award. She also placed second at The Hospital for Sick Children and Department of Paediatrics, University of Toronto Annual Resident Research Day for her presentation entitled: “Persistence of chlamydia in reactive arthritis: via host lipid trafficking?”

Dr. Alvin Loh, Paediatric Resident, received second place in the Core Paediatric Division at The Hospital for Sick Children and Department of Paediatrics, University of Toronto Annual Resident Research Day for his presentation entitled: “Quality of life disability and pain in children with nonarticular rheumatism compared to children with other chronic rheumatological pain disorders.”

**publications**


research and investigations


A randomized clinical trial to compare intermittent therapy to escalating dose prophylaxis with recombinant Factor IX (Benefix) in hemophilia B. Feldman BM, Wyeth/Genetics Institute ($5,000 2001-2002).


Kawasaki Disease: On our way to unraveling the pathogenesis. Yeung R (PI), Silverman ED (Co-PI): Canadian Institute for Health Research. ($129,000/yr 2002 - 2005).


New Investigator Award. Dr. Rae Yeung: The Arthritis Society of Canada/Canadian Institute of Health Research ($50,000/yr 2001-2006).


Trial to reduce IDDM in Type I diabetes in the genetically at risk. J. Dupré (PI), H.-M. Dosch (National Clinical Trial) (TRIGR), M. Lawson, W. Fraser: CIHR ($1,772,236/yr 2001-2011).

**Dr. Lorelei Lingard - Assistant Professor, Department of Paediatrics and Faculty of Medicine Centre for Research in Education, University of Toronto**

**publications**

(PA=Principal Author; SA=Senior Author; CoPA= Co-principal author; C=Collaborator). Each publication is identified as Research ® or Education (E).


**Research and investigations**

Eva K, Lingard L (CoPI), Walsh A, Neville A. “The Role of Clinical Relevance in Memory Tasks.” Royal College of Physicians and Surgeons of Canada ($19,520 2002)


Hawryluck L, Lingard L (CoPI). “Team Communication, Collaboration and Education in the Intensive Care Unit: A Qualitative Analysis.” University of Toronto Faculty of Medicine Dean’s Fund ($10,000 2001-2002)


Lingard L (PI), Szauter K, Stern D. “Negotiating Professional Dilemmas: A Rhetorical Analysis of Reasoning and Rationalization.” The Lyle Roll Fund for the study of Humane Medicine at the University of Michigan ($11,630 2000-2001)


chief residents:
Carolyn Beck MD, *Queen’s University*
Ben Sivarajan MD, *University of Toronto*

associate chief residents:
Marilyn Abraham MD, *University of Toronto*
Brian Hershensfield MD, *McGill University*
Elizabeth Jimenez MD, *University of Toronto*
Jill Solomon MD, *McGill University*
Valerie Waters MD, *McGill University*

postgraduate year 4
Antonella Morra MD, *American University of the Caribbean, Montserrat*
Tommy Ho MD, *Queen’s University*

postgraduate year 3
Nessa Bayer MD, *University of Toronto*
Tiscar Cavalle-Garrido MD, *University of Valencia, Spain*
Adam Cheng MD, *University of Toronto*
Melanie Henderson MD, *McGill University*
Lani Lieberman MD, *University of Toronto*
Aviva Lowe MD, *McGill University*
Shannon McPhee MD, *Dalhousie University*
Chelsea Ruth MD, *University of Manitoba*
Abdullah Shamsah MB,BCh, *National University of Ireland*
Trenna Sutcliffe MD, *McMaster University*
Leah Tattum MD, *Northwestern University, Chicago*
Carolyn Taylor MD, *University of Toronto*
Brent Williams MD, *Dalhousie University*

postgraduate year 2
Alexandra Ahmet MD, *McMaster University*
Khalid Al-Ansari MB.BS, *King Faisal University*
Zaid Al-Harbash MB.BS, *Kuwait University*
Sarah Barker MD, *University of Ottawa*
Eyal Cohen MD, *University of Toronto*
Tamar Flanders MD, *McGill University*
Deborah Fruitman MD, *Dalhousie University*
Steven Greenway MD, *University of Manitoba*
Ra Kyung Han MD, *University of Toronto*
Anita Jethwa MD, *University of Toronto*
Daphne Korczak MD, *Queen’s University*
Alvin Loh MD, *University of Toronto*
Joanna MacLean MD, *McMaster University*
Saba Merchant MB.BS, *Amravati University, India*
David Skidmore MD, *University of Western Ontario*

postgraduate year 1
Hosanna Au MD, *University of Toronto*
Chantelle Barnard MD, *University of Saskatchewan*
Matthew Crystal MD, *University of Western Ontario*
Tara Gelman MD, *University of Toronto*
Jane Healey MD, *University of Toronto*
Joanna Holland MD, *University of Toronto*
Ronik Kanani MD, *University of Calgary*
Susan Koshy MD, *University of British Columbia*
Alex Muise MD, *University of Toronto*
Angela Orsino MD, *University of Toronto*
Anwar Sallam MB BCh, *Royal College of Surgeons, Ireland*
Peggy Wong MD, *University of Toronto*
teaching awards

Harry Bain Award to a full-time member of the Department of Paediatrics who demonstrates excellence in teaching as nominated by core paediatric residents.

**Dr. Jeremy Friedman**, Paediatric Medicine

Marvin Gerstein Award to a part-time member of the Department of Paediatrics who demonstrates excellence in teaching as nominated by core paediatric residents.

**Dr. Michael Peer**, Paediatric Medicine

Ondaatje Award to a senior resident for excellence in clinical teaching as nominated by core paediatric residents.

**Dr. Ben Sivarajan**, PGY4, Chief Resident
**Dr. Adam Cheng**, PGY3

PeRLS Awards (Paediatric Educational Resident Lecture Series Award) to the faculty members who have demonstrated commitment to excellence in teaching at the Paediatric academic sessions.

**Dr. Bairbre Connolly**, Diagnostic Imaging

Subspecialty Teaching Award to the faculty member who has demonstrated commitment to excellence in teaching the subspecialty residents and clinical fellows.

**Dr. Ian Maclusky**, Respiratory Medicine

R.H.A Haslam Preclerkship Teaching Award to the faculty member who has demonstrated excellence in preclerkship teaching.

**Dr. Denis Geary**, Nephrology

Clerkship Teaching Award to the faculty member who has demonstrated excellence in clerkship teaching.

**Dr. Tara Baron**, Paediatric Medicine

CME Award to the faculty member who has demonstrated excellence in course coordination or teaching in a Department of Paediatrics or University of Toronto Continuing Education sponsored event.

**Dr. Jonathan Hellman**, Continuing Medical Education – For coordination of the Paediatric Update Conference in 2001/2002

clinical awards

Richard Rowe Award for Clinical Excellence in Paediatric Medical Care to the physician in the Department of Paediatrics who has demonstrated excellence in the delivery of clinical care in its broadest sense over a significant period of time.

**Dr. Denis Geary**, Nephrology

Award for Clinical Excellence in Paediatric Medical Care to a physician within the first 5-10 years of appointment to an Academic Health Science Centre, who has demonstrated excellence in the delivery of clinical care.

**Dr. Brenda Banwell**, Neurology

The Saunders Prize to a senior resident who has demonstrated excellence in clinical paediatrics.

**Dr. Tiscar Cavalle-Garrido**, PGY3

research awards

Paediatric Research Awards for excellence in resident research.

**Core Paediatrics**

**Dr. Eyal Cohen**, First Place
**Dr. Alvin Loh**, Second Place
**Dr. Brent Williams**, Poster Prize

**Subspecialty Paediatrics**

**Dr. Hien Huynh**, Gastroenterology/Nutrition
First Place - Basic Science

**Dr. Shirley Tse**, Rheumatology
Second Place – Basic Science

**Dr. Astrid Guttmann**, Paediatric Medicine
First Place – Clinical Research

**Dr. Sherri Katz**, Respiratory Medicine
Second Place – Clinical Research

**Dr. Cecil Hahn**, Neurology
First Place Poster

**Dr. Michael Salman**, Neurology
Honourable Mention – Poster
2001-2002 List of Promotions

Promoted to Professor of Paediatrics

Dr. Lee Ford-Jones:
Division of Infectious Diseases
Clinician-Teacher

Dr. Anne Marie Griffiths:
Division of GI/Nutrition
Clinician-Teacher

Dr. Brian McCrindle: Division of Cardiology
Clinician Scientist - Associate Scientist HSC-RI
Cross Appointment - Health Policy Management and Evaluation

Dr. Marcellina Mian:
Division of Paediatric Medicine
Clinician-Educator
Cross Appointment - Public Health Sciences

Dr. Suzanne Schuh:
Division of Emergency Medicine
Clinician-Investigator
Associate Scientist HSC-RI

Promoted to Associate Professor of Paediatrics

Dr. Gabrielle deVeber:
Division of Neurology
Clinician Scientist - Scientist HSC-RI

Dr. John Doyle:
Division of Haematology/Oncology
Clinician-Teacher

Dr. Elizabeth Harvey:
Division of Nephrology
Clinician-Teacher

Dr. Diane Hébert:
Division of Nephrology
Clinician-Teacher

Dr. Lisa Hornberger:
Division of Cardiology
Clinician-Scientist - Scientist Track HSC-RI

Dr. Aideen Moore:
Division of Neonatology
Clinician-Teacher

Dr. Ikuko Teshima:
Medical Genetics & Microbiology and Laboratory Medicine
and Pathobiology
Department of Paediatric Laboratory Medicine
For more details on 2001-2002, check our Web site:

www.sickkids.ca

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