



Chairman's reportPg #

Divisional overviews

Adolescent Medicine #

Cardiology #

Clinical and Metabolic Genetics #

Clinical Pharmacology #

Emergency Services #

Endocrinology #

Gastroenterology and Nutrition #

Haematology/Oncology #

Immunology/Allergy #

Infectious Diseases #

Neonatology #

Nephrology #

Neurology #

Paediatric Medicine #

Rheumatology #

Inter-Divisional Colleagues #

Paediatric Housestaff #

Awards #

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53. Hospital - O.P.D. Nose and Throat Clinic.



1999 – 2000 annual report chair's statement

This 1999 – 2000 Annual Report summarizes the Department's activities during the 4th year of my 5 year term as Chair of Paediatrics of the University of Toronto and the Paediatrician in Chief at The Hospital for Sick Children (HSC). I will take this opportunity to outline some of the changes that have taken place during my term and the present status of the Department.

There have been marked changes in the internal and external environment since the summer of 1996. The almost decade long reduction in the funding for health care institutions has come to an end and increased funding appears imminent. Similarly, an increase in medical school enrollments will now replace the previous reductions. Hopefully increases in residency positions will follow. The HSC has completed its "re-engineering" and the Health Service Restructuring Commission, which was responsible for reorganizing the provinces' hospital based delivery of health care, has completed its mandate. The Federal Government is now increasing, rather than decreasing, its funding for health oriented research as it establishes the Canadian Institutes of Health Research (CIHR).

During the past 4 years there has been a significant re-organization of the Department's administrative structure. My formation of a Paediatric Executive has enabled a transparent, appropriate, and effective delegation of the authorities of the offices of Chair / Paediatrician in Chief. The consolidation of the Department's previous 20 Divisions into 16 Divisions has been complimented by the establishment of the University of Toronto Division of Neonatology (HSC, Sunnybrook & Women's College Health Sciences Centre, and Mt. Sinai Hospital's Neonatal Intensive Care Units), Paediatric Academic MultiOrgan Transplant (PAMOT) programme, and Section of Community Paediatrics.

One of my major priorities has been to promote the career development of our faculty and to develop mentorship programmes. The various roles of physicians within our academic health science centre (AHSC) are now outlined in our six different Job Activity Profiles (JAP, Clinician-Scientist, Clinician -Specialist, Clinician-Investigator, Clinician-Educator, Clinician-Teacher, and Clinician - Administrator). These JAPs recognize and promote the different roles of physicians in an academic health science centre. As part of this initiative a "road-map" of achievements outlining successful career development have been created. These goals, along with the guidance provided by Division Chiefs and our newly established mentorship programmes assist our Faculty in their career development. These goals also provide benchmarks whereby our Department's peer review Career Development and Compensation Programme (CDCP) determines their remuneration.

The funding for the Department's compensation of paediatricians and supporting personnel, and recruitment of new faculty has increased from \$25 million in 1995 to \$30 million in 1999 due to the successful 1998 re-negotiation of the Alternative Payment Plan and more support from The HSC and its Foundation. HSC based physicians can once again enter a HSC based pension plan.

Over the past 4 years there have been 34 female and 15 male paediatricians hired to replace departing paediatricians and to increase the Department complement of paediatricians. As of July 1, 2000 there were 133.6 FTE physicians holding primary appointments in the Department at The HSC. There are also 164 part time physicians in The HSC Department, a number that includes the 11 full-time neonatologists at Mt. Sinai Hospital and Sunnybrook & Women's College Health Sciences Centre. All of these physicians, along with 26 colleagues who do not practice medicine have their primary academic appointment in Paediatrics. Taken together, as of July 1, 2000, there are 338 primary academic appointments within the University of Toronto's Department of Paediatrics.

We have maintained and enhanced our profile as a research intensive Department. Through a collaborative effort with the leadership of The HSC's Research Institute (RI), new categories of RI appointments now allow 58, as opposed to the previous 18, paediatricians to have full access to RI infrastructure resources. There are also 18 non – physician members of the Department who hold RI appointments. Members of our Department now head the majority of the RI programmes and one member of our Department is the Associate Director (Clinical Research) of the RI. Members of our Department have also been the inaugural holders of 7 of the 15 endowed chairs for whom individuals have been named. Several initiatives have been undertaken to promote research in Education including the development of a JAP to promote such activities and the recruitment of a Ph.D. trained Education researcher. Our research achievements are perhaps best illustrated by the observation that primary appointees within the Department of Paediatrics have increased the amount of peer reviewed grant funding by approximately 50 % and nearly doubled the amount of external career scientist salary award funding. In the 4 preceding Departmental annual reports they have listed a total of 3,888 peer-reviewed publications!

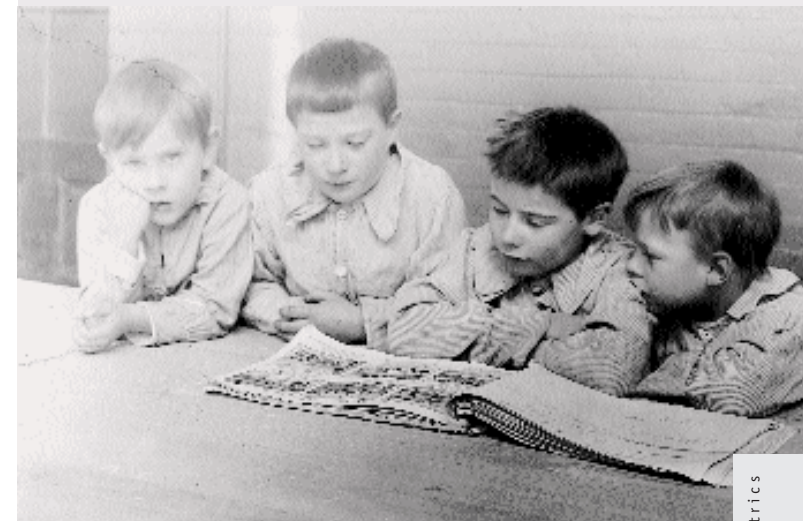
The Department continues its outstanding contributions to the education of child health care providers. The Department provides undergraduate education in paediatrics for the 708 medical students at the University of Toronto and instruction to national and international medical students taking electives at The HSC. Our core paediatric residency training programme attracts outstanding candidates from our own medical school and from across Canada. During the 2000–2001 academic year there are 160 subspecialty residents/ fellows from 30 countries training in the Department's 17 programmes. Advances in medicine and technology, along with the need to develop new strategies to deliver in-patient care, have led to the establishment of new Departmental, Paediatric Academic MultiOrgan Transplant (PAMOT), and Neonatal Transport Fellowship programmes; these now attract paediatricians from around the world. Our core and sub-specialty residents / fellows have increased their research productivity and over the past 3 years and they have won 5 awards in the cross – Canada resident and fellow research competition. Our Grand Rounds have been creatively re-organized by members of our Department. New initiatives have also been undertaken in Continuing Education. These include changes in our Department's "Paediatric Update" that has resulted in increased local and international attendance, the development of an annual "Medical Education Day", and the increased usage of electronic medium for local and national CE initiatives. The pedagogical excellence of our Department's faculty is illustrated by the 7 Faculty of Medicine-wide Teaching Awards that our colleagues have received over the past 4 years!

The Department provides physicians for approximately 70% of all patient care at The HSC. For example, in 1998-9, The HSC's Department of Paediatrics had 6,971 admissions, 52,282 hospital days, 98,703 outpatient visits, and 48,320 emergency room visits. Over the past 5 years the Department's volume of in-patient cases has remained stable whereas "weighted cases", a more comprehensive work-load measure, has increased significantly. Ambulatory patient care activity has increased slightly, and the number of Emergency Room visits is unchanged. Strategies have been developed and implemented to improve the profile of paediatricians whose predominant role was to provide clinical care. Clinical Practice Units have been reorganized (general paediatrics) and developed (Oncology and PAMOT).

Our Department is nationally and internationally recognized for its clinical, educational, and research activities. Its profile has been enhanced by our success in securing the editorial offices of the Journal “Pediatric Research” (<http://www.pedresearch.org/>). I am also pleased to be a member of organizing committee of the proposed Canadian Health Research Institute for Mother, Child, and Youth (CHRIMCY, <http://www.chrimcy.org/>) and a member of the executive committees of the Pediatric Scientist Development Program <http://info.med.yale.edu/pediat/pedsci1.htm>) and of the Association of Medical School Pediatric Department Chairs (AMSPDC) Inc.

The achievements of our Department are truly outstanding! I would like to take this opportunity to thank the members of my Department and its trainees for their contributions to the well-being of infants and children through their generation, evaluation, dissemination, and application of health oriented knowledge.

Hugh O’Brodivich MD, FRCP(C)
Professor of Paediatrics and Physiology
Chairman of Paediatrics, University of Toronto
Paediatrician in Chief, Hospital for Sick Children
R.S. McLaughlin Foundation Chair in Paediatrics at The Hospital for Sick Children



divisional overviews



adolescent medicine

faculty Eudice Goldberg, MD, FRCPC, **head**, Debra

Katzman, MD, FRCPC, Karen Leslie, MD, FRCPC, Miriam

Kaufman, MD, FRCPC, Stephen Rivers, PhD, C Psych

part-time Afsoon Fathollahzadeh, MD, FRCPC,

Christina Grant, MD, FRCPC, Elyea Noriega, MD, FRCPC,

Miriam Rossi, MD, FRCPC

clinical fellows April Elliott, MD, FRCPC

publications

- Katzman DK, Golden NH, Neumark-Sztainer, Yager J, Strober M: From prevention to prognosis: clinical research update on adolescent eating disorders. *Pediatric Research*: January 2000: 47: pp 709-712.
- Panagiotopoulos C, McCrindle BW, Hick K, Katzman DK: Electrocardiographic correlates of clinical status in adolescents with eating disorders: a case-control study. *Pediatrics*: January 2000: 105: pp 1100-1105.
- Robinson E, Bachrach, LK, Katzman DK: To treat or not to treat: Use of hormone replacement therapy for adolescent girls with anorexia nervosa. *Journal of Adolescent Health*: January 2000: 26: pp 343-348.

books and chapters in books

- Katzman D, Leonard K, Goldberg E: Challenges in Adolescent Health. In: *Paediatric Evidence Based Medicine* (Feldman W, ed). B.C. Decker Incorporated,: 2000:
- Katzman DJ, Davis R: Female body image. In: *Primary Care of Adolescent Girls* (Coupey SM, ed). Hanley and Belfus Inc., Philadelphia: 2000: pp 39-52.
- Katzman DK: Prevention of medical complications in children and adolescents with eating disorders. In: *Preventing Eating Disorders: A Handbook of Interventions and Special Challenges* (Piran N, Levine MP, Steiner-Adair C., eds). Brunner/Mazel Taylor and Francis Group,: 1999: pp 304-318.
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- Katzman DK, Leslie K: Counseling a 14 year-old new mother. In: *Pediatrics: A Problem-Based Review* (Burg FD, Vaughan VC, Nelson KG, eds). W. B. Saunders Company, Philadelphia: 2000: pp 543.

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- Katzman DK, Leslie K: Failure to thrive in an 8-month-old boy of a 15-year-old mother. In: *Pediatrics: A Problem-Based Review* (Burg FD, Vaughan VC, Nelson KG, eds). W. B. Saunders Company, Philadelphia: 2000: pp 201-202.
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- Kaufman M: Day to Day Ethical Issues in the Care of Young Parents and Their Children. In: *Teen Pregnancy and Parenting: Social and Ethical Issues* (Wong J, Checkland D, eds). University of Toronto Press, Toronto, Ontario: 1999: pp 25-37.
- Leslie K (Joint Author), Katzman DK: The young adolescent parent. In: *Current Paediatric Therapy, 16th Edition* (Burg FD, Ingeltinger JR, Wald E, Polin RA, eds). W. B. Saunders, Philadelphia: 1999: pp 1210-1213.

research and investigations

The Canadian Institutes of Health Research, Networking Program of the ICRS

A Tri-Council Workshop/Networking Program. *Frappier J-Y (Project Leader), Katzman DK, Davis C, Pierce DW, Forget J, Wilkins J, Salvy S-J*

current year \$12,000 term 2000 – 2002

Ontario HIV Treatment Network (OHTN)

An HIV risk reduction intervention for incarcerated youth in Ontario. *Goldberg E, Millson M (Co-PI), Read S, Rivers S, Leslie K, Wormith JS, Meen R*

current year \$151,717 term 1999 – 2002

Ontario Mental Health Foundation

Brain Structure and Function in Adolescents with Anorexia Nervosa. *Katzman DK, Zipursky RB, Christensen BK, Young AR, Mikulis DJ*

current year \$57,873 2000 – 2002

Canadian Health Network

Youth Affiliate (Health Canada). *Goldberg E*: (\$298,000 awarded to consortium)

current year \$15,676 term 1999 – 2000

Psychiatry Endowment Fund

Clinical and serological characteristics of insidious vs. acute onset obsessive compulsive disorder in childhood. *Arnold P, Richter M, Katzman DK (Co-investigator), Manassis K*

current year \$5,000 term 1999 – 2000

Health Canada – Health Protection Branch

Enhanced STD surveillance in Canadian street youth. *Rossi M, Leslie K, Ewart R*

current year \$33,242 term 1999 – 2000

Health Canada Health Infostructure Support Program (HISP)

Teen Clinic Online: Using information technology for prevention and health care in youth. *Skinner H, Goldberg E (Co-investigator)*

<None>\$167,000 term 1999 – 2000

Paediatric Consultants

The Adolescent with a Chronic Illness: Substance Use and Implications for Treatment. *Leslie K, Kaufman M*:

current year \$4,380 term 999 – 2000

The Ontario Ministry of Health

The Ontario Community Outreach Program for Eating Disorders. *McVey, Davis R, Geist R, Kaplan AS, Katzman DK (Co-investigator)*

current year \$132,000 term 1999 – 2000

cardiology

faculty Robert Freedom, MD, **head** (head to September 30, 2000), Ian Adatia, MD, Leland Benson, MD, Anne Dipchand, MD, Gil Gross, MD, Robert Hamilton, MD (acting head as of October 1, 2000), Lisa Hornberger, MD, Joel Kirsh, MD (as of July 1/2000), Kyong-Jin Lee, MD, Brian McCrindle, MD, David Nykanen, MD, Marlene Rabinovitch, MD, Jeffrey Smallhorn, MD, Lori West, MD, Dphil, Shi-Joon Yoo, MD (cross appointed as of May/2000)

part time & associate staff Jack Coleman, MD, Dayanand Jagdeo, MD, Paul Kantor, MD, Fred Keeley, MD, Charles Lazzam, MD, Peter McLaughlin, MD, Clifton Way, MD, Gary Webb, MD, Anil Menon, MD, Lynne Nield, MD, Norman Musewe, MD

clinical fellows Mustafa Abdullah, MD – to Aug. 30/00, Shelby Ahammedkutty, MD – as of 7/00, Kirsten Amark, MD, Catherine Barrea, MD, Rolf

Bennhagen, MD – as of 7/00, Vishwanath Bhat, MD – as of 7/00, Rejane Dillenberg, MD, Gideon duMarchie Sarvaas, MD, Fraser Golding, MD, Tilman Humpl, MD, Henri Justino, MD, Lillian Lai, MD – as of 7/00, Suzie Lee, MD, Stephanie Levasseur, MD, Lynne Nield, MD – to 7/00, Alejandro Peirone, MD, Jennifer Russell, MD, Kalyani Trivedi, MD – as of 7/00, Emanuela Valsangiacomo, MD – as of 7/00

publications

Abdullah M, Yoo S-J, Lee YH, Hornberger LK, Smallhorn J: Diagnosis of left juxtaposition of the atrial appendages in the fetus. *Cardiology in the Young*: May 2000:

Beghetti M, Morris K, Cox P, Bohn D, Adatia I: Inhaled nitric oxide differentiates pulmonary vasospasm from vascular obstruction after surgery for congenital heart disease. *Journal of Intensive Care Medicine*: July 1999: 5: pp 1126-1130.

Black MD, Smallhorn JF, Freedom RM: Aortic atresia with a ventricular septal defect: Modified single-stage neonatal biventricular repair. *Annals of Thoracic Surgery*: July 1999: 67: pp 751-755.

Cowan KN, Heilbut A, Lam C, Ito S, Rabinovitch M: Reversal of severe pulmonary hypertension by a serine elastase inhibitor. *Nature Medicine*: January 2000: 6: pp 698-702.

Cowan KN, Jones PI, Rabinovitch M: Elastase and matrix metalloproteinase inhibitors induce regression and tenascin-C antisense prevents progressive vascular disease. *Journal of Clinical Investigation*: January 2000: 105: pp 21-34.

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Freedom RM, Hamilton R, Yoo S-J, Mikailian H, Benson LN, McCrindle B, Justino H, Williams WG: The Fontan Procedure: Cohort analysis and late complications. *Cardiology Young*: January 2000: 10: pp 307-331.

Freedom RM, Yoo S-J, Javois A: A most peculiar coronary circulation in a patient with pulmonary atresia and intact ventricular septum. *Cardiology Young*: January 2000: 10: pp 54-57.

Gatzoulis MA, Munk M-D, Merchant N, Van Arsdell G, McCrindle BW, Webb GD: Isolated congenital absence of the pericardium: clinical presentation, diagnosis and management. *Annals of Thoracic Surgery*: January 2000: 69: pp 1209-1215.

Gilbert JD, Cahill SA, McCartney DG, Lukas A, Gross GJ: Predictors of torsades de pointes in rabbit ventricles perfused with sedating and non-sedating histamine H1 – receptor antagonists. *Canadian Journal of Physiology and Pharmacology*: January 2000: 78: pp 407-414.

Gillis AM, Hamilton RM, LeFeuvre CA: Chapter 8 unusual cases of sudden cardiac death due to ventricular tachyarrhythmias. *Canadian Journal of Cardiology*: June 2000: 16(Suppl C): pp 34C-40C.

Han RK, Silverman ED, Newman A, McCrindle BW: Management and outcome of persistent or recurrent fever after initial IVGG therapy in acute Kawasaki disease. *Archives of Pediatrics and Adolescent Medicine*: January 2000: 154: pp 649-694.

Han RK, Sinclair B, Newman A, Silverman ED, Taylor G, Walsh P, McCrindle BW: Recognition and management of Kawasaki disease. *Canadian Medical Association Journal*: January 2000: 162: pp 807-812.

Haney I, Ipp M, Feldman W, McCrindle BW: The accuracy of clinical assessment of heart murmurs by general pediatricians. *Archives of Disease in Childhood*: July 1999: 81: pp 409-412.

Humpl T, Huggan P, Hornberger LK, McCrindle BW: Presentation and outcomes of ectopia cordis. *Canadian Journal of Cardiology*: July

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- Lee KJ, McCrindle BW, Bohn DJ, Wilson G, Taylor GP, Freedom RM, Smallhorn JF, Benson LN: Clinical outcomes of acute myocarditis in childhood. *Heart*: July 1999; 82: pp 226-233.
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- Panagiotopoulos D, McCrindle BW, Hick K, Katzman DK: Electrocardiographic findings in adolescents with eating disorders. *Pediatrics*: January 2000; 105: pp 1100-1105.
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- Rao V, Kadletz M, Hornberger LK, Freedom RM, Black MD: Preservation of the pulmonary valve complex in tetralogy of Fallot: How small is too small? *Annals of Thoracic Surgery*: June 2000; 69: pp 176-179.
- Russell JL, Smallhorn JF, Black M, Hornberger LK: Isolated origin of the left subclavian artery from the left pulmonary artery. *Cardiology in the Young*: June 2000; 10: pp 120-125.
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books and chapters in books

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- Freedom RM, Yoo S-J: Double-outlet right ventricle: pathology and angiocardiology. In: *Seminars in Thoracic & Cardiovascular Surgery* (Williams WG, ed). WB Saunders, Philadelphia: 2000: pp 3-19.
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research and investigations

Medimmune

A study of the safety, tolerance and efficacy of palivizumab (MEDI-493, "Synagis") for prophylaxis of respiratory syncytial virus in children with congenital heart disease: Protocol MI-CP048 (Version 4.0). *Nykanen D, Lee KJ*

current year \$85,000 term 1999 – 2000

Heart & Stroke Foundation of Canada

Apolipoprotein A, AML1, elastase and tenascin in pulmonary vascular disease. *Rabinovitch M*

current year \$167,553 term 1998 – 2001

Grant-In-Aid, Heart and Stroke Foundation of Ontario

B1 integrins and the IGF2-IGF1 receptor system in fetal cardiac myocyte proliferation: Regulatory role for the nuclear transcription factor Sp1. *Hornberger LK*

current year \$56,000 term 2000 – 2002

St. Boniface General Hospital Research Foundation/Medical Research Council of Canada

Cardiac electropharmacology of H1-receptor antagonist drugs. *Hryshko LV, Gross GJ (Co-Principal Investigator)*

current year \$42,720 term 1999 – 2000

Physician Services Incorporated Foundation

Cardiovascular risk factors after Kawasaki Disease. *McCrinkle*

BW

current year \$78,000 term 1999 – 2000

Medical Research Council Grant

Determination of autoantibodies and antigens responsible for congenital heart block. *Hamilton R, Hornberger LK, Silverman E*

current year \$54,000 term 1998 – 2000

HSC Foundation – Ductus Gene Therapy Fund

Ductus Gene Therapy. *Rabinovitch M*

current year \$100,000 term 1999 – 2004

Paediatric Consultants, Hospital for Sick Children

Effects of potassium current inhibition on proliferative protein gene expression in pulmonary arterial smooth muscle cells.

Gross GJ

current year \$4,899 term 1999 – 2000

Medical Research Council of Canada – Distinguished Scientist Award

Elastase and the extracellular matrix in vascular disease.

Rabinovitch M

current year \$70,000 term 2000 – 2005

Medical Research Council of Canada

Elastase myocardial remodeling and progenitor cells.

Rabinovitch M

current year \$105,000 term 2000 – 2005

Seed Grant, The Hospital for Sick Children

Evaluation of indirect fetal ECG in fetal cardiac diagnosis.

Hamilton R, Hornberger LK

current year \$14,550 term 1998 – 2001

The Hospital for Sick Children

Fetal electrocardiography, patient-based research. *Hamilton RM*

current year \$14,000 term 1999 – 2001

Fujisawa

FK506 versus neoral for immunosuppression after pediatric cardiac transplantation. *West LJ, McCrinkle BW, Dipchand A, Lee KJ (Co-Investigators)*

current year \$50,000 term 1999 – 2000

Fujisawa Canada

FK506 Versus Neoral for immunosuppression after pediatric cardiac transplantation – A randomized open-label clinical trial. *McCrinkle BW (co-PI)*

current year \$25,000 term 1998 – 2000

Paediatric Consultants Research Grant

Homocysteine metabolism in paediatric heart transplant recipients. *Dipchand AI*

current year \$5,000 term 1999 – 2000

HSC Seed Grant Competition

Innovative approaches to cardiac transplantation: Understanding the response to ABO-Mismatched transplantation. *Coles J, McCrinkle BW, Straatman L, Benson L, West L*

current year \$17,280 term 1998 – 2000

Canadian Institutes of Health Research

Investigation of congenital heart block using animal models. *Hamilton RM*

current year \$202,759 term 1998 – 2001

March of Dimes Research Grant

Maternal autoantibodies and congenital atrioventricular block (US Funds). *Hornberger LK, Silverman E, Hamilton R, Wyatt P, Feldman B, Ryan G, Windrim R*

current year \$67,000 term 1998 – 2000

March of Dimes Foundation

Maternal autoantibodies in pregnancy and congenital atrioventricular heart block. *Hornberger L, Hamilton RM*

current year \$32,405 term 1997 – 2000

Seed Grant, The Hospital for Sick Children

Maternal homocysteine levels and fetal heart disease. *Hornberger LK, Loughheed J, Walker M, Cole D*

current year \$14,550 term 1999 – 2001

Physician's Services Incorporation Foundation Fellow Grant

Maternal plasma homocysteine and fetal heart disease. *Loughheed J, Hornberger LK (Supervisor)*

current year \$20,000 term 1999 – 2000

Medical Research Council of Canada

Molecular mechanisms regulating matrix and neonatal formation. *Rabinovitch M*

current year \$120,696 term 1996 – 2001

Heart and Stroke Foundation of Canada

Mortality and outcomes of tetralogy of fallot in an adult cohort. *McCrandle BW, Gatzoulis M, Webb G, To T*

current year \$116,226 term 1999 – 2002

Heart and Stroke Foundation of Ontario

Neurodevelopmental outcome after neonatal cardiac surgery. *Sananes R, McCrandle BW, Kelly E, Hornberger L*

current year \$75,691 term 1998 – 2000

HSC Seed Grant Competition

Non-invasive assessment of vascular changes in hyperlipidemic children. *McCrandle BW, Smallhorn JF, Adeli K*

current year \$16,500 term 1999 – 2001

Pfizer

PATH-1 (Pediatric use of amlodipine in the treatment of hypertension-1). *Benson LN, Lee KJ (Toronto Investigators – Multicenter trial in both Canada and the USA)*

current year \$20,000 term 2000 – 2001

Grant-In-Aid, Heart and Stroke Foundation of Ontario

Predictors of neurodevelopmental outcomes after neonatal cardiopulmonary bypass. *Senenas R, Hornberger LK, McCrandle B,*

Kelly E, Bohn D, Williams WG

current year \$74,180 term 1998 – 2000

Heart and Stroke Foundation of Ontario

Randomized clinical trial of anticoagulation in post-fontan children. *Andrew, M, McCrandle BW*

current year \$81,166 term 1998 – 2000

Heart & Stroke Foundation of Canada

Regulation of cardiovascular remodeling by elafin and a novel vascular chymase: Studies including a transgenic approach. *Rabinovitch M*

current year \$109,611 term 1999 – 2002

March of Dimes Research Grant

Renewal – Maternal autoantibodies and congenital atrioventricular block (US Funds). *Hornberger LK, Silverman E, Hamilton R, Wyatt P, Feldman B, Ryan G, Windrim R*

current year \$87,143 term 2000 – 2003

Sigma Tau Inc

The biochemical markers of cardiac toxicity with anthracycline administration. *Benson L, Lebotay D*

current year \$12,500 term 1998 – 2000

Department of Paediatrics: Paediatric Consultants Research Award

The Fontan Operation: non-surgical catheter completion. *Benson L*

current year \$4,860 term 2000

Heart & Stroke Foundation of Canada

The role of respiratory chain free radical production in response to cardiac ischemia and energy deprivation. *Robinson B, Benson L*

current year \$644,081 term 1998 – 2000

Paediatric Consultants

Use of contrast enhanced echocardiography in the pre-operative

assessment of patient: Undergoing a fontan operation: A pilot study. *Smallhorn JF, Loughheed J*

current year \$4,000 term 1999 – 2000

Physician Services Incorporated Foundation

Utility of magnetic resonance imaging in complex congenital heart disease: A prospective study. *Neild L, McCrandle BW, Yoo S-J, Wright G, Freedom R, Hornberger L*

current year \$20,000 term 1999 – 2000

Physician's Services Incorporation Foundation Fellow Grant

Utility of magnetic resonance imaging in the assessment of single ventricles. *Neild L, Yoo SJ, Hornberger LK*

current year \$20,000 term 1999 – 2000

clinical and metabolic genetics

faculty Rosanna Weksberg, MD, PhD, FRCPC, FCCMG,

FACMG, **head**, David Chitayat, MD, FABMG, FACMG,

FCCMG, FRCPC, Joe T.R. Clarke, MD, PhD, FRCPC,

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McInnes, MD, PhD, FRCPC, FCCMG, Stephen Meyn, MD,

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FCCMG, Ahmad S. Teebi, MD, DCH, DHCG(Lond),

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Renaud, MD, Komudi Siriwardena, MBChB, Stephen

Withers, MB, BS, FRACP

publications

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research and investigations

G The Physicians' Services Incorporated Foundation

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current year \$21,666 term 1997 – 2000

Medical Research Council of Canada

A screening strategy for a genetic subtype of Schizophrenia.

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current year \$112,982 term 2000 – 2003

AA National Institute of Child Health and Development

Case control surveillance for birth defects (RO1 HD 27697).

Chitayat D, Mitchell

current year \$225,608 term 1997 – 2001

The Ontario Association of Medical Laboratories

Cryptic rearrangements in children detected by subtelomeric FISH and SKY. *Weksberg R, Teshima I, Teebi A, Chitayat D*

current year \$20,000 term 1999 – 2000

Ian Douglas Bebensee Foundation Operating Grant

Determining a screening method to identify a genetic subtype of schizophrenia. *Weksberg R, Bassett AS, Dickson R, Chow EWC, Brzustowicz L*

current year \$40,000 term 1999 – 2001

DPLM Test Development Fund

Development of FISH probes for the SMARCB1 gene in rhabdoid tumours. *Teshima I*

current year \$14,700 term 2000 – 2001

MRC

Developmental genetics of the mammalian eye (plus attached Student Voucher \$15,000/yr). *McInnes RR*

current year \$86,741 term 1996 – 2001

Centres of Excellence Program

From Genes to Therapies: Project 1: Gene isolation for ocular diseases; Project 2: Retinal stem cells for the treatment of retinal degeneration. *McInnes RR*

current year \$87,671 term 1998 – 2005

Ataxia Telangiectasia Medical Research Foundation

Functional characterization of the ATM protein. *Meyn MS*

current year \$25,000 term 1998 – 2001

National Cancer Institute of Canada

Genomic imprinting in a tumor predisposing region of chromosome band 11p15. *Weksberg R, Squire J*

current year \$117,259 term 1995 – 2001

Leukemia Research Fund of Canada

hSNF5/INI1 in childhood leukemia. *Malkin D, Teshima I*

current year \$107,000 term 2000 – 2002

Macular Vision Research Foundation (USA)

Identification of mutant response genes in inherited retinal degenerations. *McInnes RR*

current year \$80,000 term 1999 – 2002

Retinitis Pigmentosa Eye Research Foundation

Identification of proteins that interact with CHX10 and ROM1 in the mammalian retina. *McInnes RR*

current year \$80,000 term 1997 – 2000

The National Institutes of Health – R01 CA60592

Molecular analysis of the chromosome instability syndromes. *Meyn MS*

current year \$142,000 term 1994 – 1999

Howard Hughes Medical Institute International Research Scholar Award

The genetics of mammalian retinal development and photoreceptor structure (US Funds). *McInnes RR*

current year \$65,000 term 1997 – 2001

clinical pharmacology

faculty Shinya Ito, MD, ABCP, FRCPC, **head**, Gideon

Koren, MD, FACMT, FRCPC, Sylvain Baruchel, MD,

Bhushan Kapur, PhD, Michael McGuigan, MD, Patricia

Harper, PhD

part-time Denis Grant, PhD, Dennis Scolnik, MD,

Lidia Derewlany, PhD, Tom Einarson, PhD, Allan Okey,

PhD, Neil Shear, MD, Bonnie Stevens, PhD, **clinical**

fellows Tommy Ho, MD (University of Toronto,

Canada), Eran Kozer, MD (University of Tel-Aviv,

Israel)

research fellows Irena Nulman, MD (The Ternopol

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MD (Bombay University, India), Alexander Liaschko,

MD (Leningrad Medical School, Russia), Adriana

Costei, MD (University of Tirgu Mures, Romania), Zina

Levichek, MD (Azerbaijan, USSR), Radda Boskovic, MD

(University of Tuzla, Bosnia)

publications

Addis A, Dolovich LR, Einarson TR, Koren G: Can we use anxiolytics during pregnancy without anxiety? Canadian Family Physician: January 2000: 46: pp 549-551.

Addis A, Koren G: Safety of fluoxetine during the first trimester of pregnancy: a meta-analytical review of epidemiological studies. Psychol Med: January 2000: 30: pp 89-94.

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Appleby I, Koren G, Sharp D: Depression in pregnant and postnatal women: an evidence-based approach to treatment in primary care. British Journal of General Practitioners: July 1999: 49: pp 780-782.

Astrup ML, Koren G: Analgesic agents for the postoperative period: Opioids. Surgical Clinics of North America: July 1999: 79: pp 253-274.

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Bar-Oz B, Nulman I, Koren G, Ito S: Anticonvulsants and breastfeeding: a critical review. Paediatric Drugs: January 2000: 2: pp 113-126.

Berkovitch M, Bistritzer T, Milone SD, Perlman K, Kucharczyk W, Koren G, Olivieri NF: Iron deposition in the anterior pituitary in homozygous beta-thalassemia: MRI evaluation and correlation with gonadal function. Journal of Pediatric Endocrinology & Metabolism: January 2000: 13: pp 179-184.

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18: pp 36-40.

Bishai R, Koren G: Maternal and obstetric effects of prenatal drug exposure. Clinical Perinatology: July 1999: 26: pp 75-86.

Bishai R, Mazzotta P, Atanackovic G, Levichek Z, Pole M, Magee L, Koren G: The efficacy and safety of diclectin for nausea and vomiting of pregnancy. Today's Therapeutic Trends: July 1999: March: pp 10-15.

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Cowan KN, Heilbut A, Humpl T, Lam C, Ito S, Rabinovitch M: Complete reversal of fatal pulmonary hypertension in rats by a serine elastase inhibitor. Nature Medicine: June 2000: 6: pp 698-702.

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books and chapters in books

Ito S: Drug exposure during lactation. In: Compendium of Pharmaceuticals and Specialties, 34th Edition (Canadian Pharmacists Association, ed). Toronto: 1999: pp L49-L51.

Ito S, Massicotte A: Drug exposure during pregnancy. In: Compendium of Pharmaceuticals and Specialties, 34th Edition (Canadian Pharmacists Association, ed). Toronto: 1999: pp L46-L48.

Juurlink DN, Stanbrook MB, McGuigan MA: Hyperbaric oxygen for carbon monoxide poisoning (Cochrane Review. In: The Cochrane Library Oxford,: 2000:

research and investigations

Senior Investigator's Name Appears in Italics

Pfizer

Amlodipine in children (PATH 1 & 2). *Koren G*

current year \$140,000 term 1999 – 2000

Health Canada

Breaking The Cycle – Canadians of Substance Abuse project. *Koren G*

current year \$65,000 term 1999 – 2001

Health Canada

Breaking The Cycle Program. *Koren G*

current year \$340,000 term 1994 – 2000

MRC

Comparison of amitriptyline and placebo for the reduction of pain in children with JRA. *Feldman B, Koren G*

current year \$8,000 term 1999 – 2001

MRC Grant MA 8544

Determinants of renal handling of drugs during development. *Koren G*

current year \$80,000 term 1984 – 2004

Eli-Lily Canada Inc

Effects of fluoxetine during breastfeeding on their breastfed infants. *Ito S, Koren G*

current year \$43,090 term 1999 – 2000

Ontario HIV Treatment Network (NHTV)

Evaluating safety and risk of antiretroviral drug exposure during pregnancy for infants born to HIV positive women in Ontario. *King SM, Koren G*

current year \$58,333 term 1999 – 2002

Research Institute: Start Up Fund

Maternal smoking and neonatal HIE. *Pelman M, James A, Koren G*

current year \$19,000 term 1998 – 2000

Canadian Foundation for Women's Health (The Duscheney fund for better use of drugs during pregnancy and lactation)

Maternal use of beta-blockers during breastfeeding. *Ito S, Ho T*

current year \$19,180 term 1999 – 2000

Medical Research Council

Mechanisms of drug transfer into human milk [MT-13747: Renewed in 1999],

current year \$71,954/year + equipment). *Ito S*

current year \$71,654 term 1999 – 2002

Health Canada

Mother Net. *Koren G*

current year \$350,000 term 1999 – 2001

MRC-PMAC (Astra)

Omeprazole in pregnancy. *Koren G*

current year \$80,000 term 1998 – 2000

Medical Research Council of Canada

Paediatric Pharmacology Network. *Koren G, Rieder M, MacLeod S, Bend J, Bailey B*

current year \$70,000 term 1999 – 2000

Astra Canada

Pharmacokinetics of penile absorption of EMLA in newborn piglets. *Koren G*

current year \$5,000 term 1993 – 2000

1998 University of Toronto/Connaught New Staff Matching Grants

Role of P-glycoprotein in the blood-brain barrier. *Ito S*

current year \$15,000 term 1998 – 2000

PMAC/MRC

Safety of omeprazole in pregnancy and lactation. *Koren G, Ito S, Magee L (Co-Investigators)*

current year \$93,750 term 1998 – 2000

March of Dimes

Social disparities in preterm births. *Kramer M, Koren G (US Funding)*

current year \$249,978 term 1998 – 2001

MRC MT 1797

The role of the placenta in perinatal toxicology: Study in a human placental perfusion system. *Dereowlany L, Ito S, Koren G*

current year \$70,000 term 1990 – 2002

Medical Research Council of Canada

The role of the placenta in the fetal toxicology of cocaine and components of cigarette [MT-1797: Renewed in 1999]. *Koren G, Dereowlany L, Ito S (Co-Investigators)*

current year \$84,240 term 1999 – 2002

American Lung Foundation

Tobacco smoke exposure and infant respiratory function. *Groner J, Koren G (Co-applicant) (US Funding)*

current year \$25,000 term 1998 – 2000

Duchesnay, Laval Quebec

Treatment of morning sickness. *Koren G*

current year \$30,000 term 1994 – 2002

emergency services

faculty William Mounstephen, MD – head, Uzma Ahmed, Peter Lewin, MD, Patricia Linders, MD, Karen Mandel, MD, Carolyn Calpin, MD, Laura Duggan, MD, Cara MD, Aubrey Maze, MD, Diana Mills-Tetty, MD, Steven Gilman, MD, Leah Harrington, MD, Anna Jarvis, MD, Moss, MD, Paul Nathan, MD, Patricia Neelands, MD, Kelly Keogh, MD, Sohail Khattak, MD, Luba Komar, MD, Evangelina Papadouris, MD, Jocelyn Parent, MD, Linda Andrew Mason, MD, Jonathan Pirie, MD, Maryanne Robb, Pedder, MD, Pratap Rastogi, MD, Lillian Rojnica, MD, MD, Suzan Schneeweiss, MD, Suzanne Schuh, MD, Antonina Saksznajder, MD, Clive Schwartz, MD, Dennis Scolnik, MD **part-time** Adelle Atkinson, MD, Domenick Shelton, MD, Heshy Sturm, MD, Padmuja Sherry Baine, MD, Brenda Banwell, MD, Alan Berzen, Subbarao, MD, Jonathan Tolkin, MD, Sunita Vohra, MD, MD, Gail Churchill, MD, Carlos Contreras, MD, Jacquie Jeffrey Weisbrot, MD, Hilary Whyte, MD, Sheldon Wise, Curtis, MD, Paul Dick, MD, Martha Dirks, MD, Katy MD, Hirotaka Yamashiro, MD, Albert Yeung, MD, Conrad Driver, MD, John Freedman, MD, Claudio Fregonas, MD, Yim, MD, Mary Zachos, MD **clinical fellows** Jason Acworth, MB, FRACP (The University of Queensland, Australia), Eran Kozer, MD (Sackler School of Medicine, Tel-Aviv University) **research fellows** Fahad Al-Mukhaizeem, L.R.C.P., & S.I., M.B., B.Ch., B.A.O.(National University of Ireland), Brigitte Inch, MD, Andrew James, MD, Fatima Kamalia, MD, Bartholome, MB, DCH, Dip IMC, DGM (University of Aachen, Germany), Tanuja Kodeeswaran, MD (McMaster University)

publications

Mason AD, Crockett RK: When Lightning Strikes ... A Case Report and Review of the Literature. *International Pediatrics*: June 2000: 15: pp 173-178.

Schuh S, Johnson D, Callahan S, Stephens D, Winders P, Canny G: High versus low dose albuterol therapy via metered dose inhaler versus nebulizer in children with mild acute asthma. *Journal of Pediatrics*: July 1999: 135: pp 22-27.

research and investigations

Exergen-Phillips Grant

Comparison of the temporal artery, aural and rectal thermometry in children in the Emergency Department. *Schub S*

current year \$77,000 term 1999 – 2000

MRC – PMAC Grant

Efficacy of oral dexamethasone in the emergency therapy of acute bronchiolitis. *Schub S*

current year \$41,474 term 1997 – 2000

Paediatric Consultants Grant

Efficacy of salbutamol administered to hospitalized children via a vented versus unvented jet nebulizer. – A pilot study. *Schub S*

current year \$5,000 term 1999 – 2000

Harvard Pilgrim Health Care Foundation

Impact of an inpatient service led by pediatric hospitals: Efficiency of care, patient satisfaction and health status outcomes

current year \$10,000 in kind. *Srivastava R, Landrigan C, Graef J, Soumerai S*

current year \$10,000 term 1999 – 2000

PSI Grant

Interleukin 6 levels in febrile children with bacteremia. *Schub S*

current year \$7,500 term 1998 – 2000

Exergen-Phillips Grant

Validation of temporal arterial heat thermometry by its comparison with esophageal temperature in children. *Schub S*

current year \$40,000 term 2000 – 2001

endocrinology

faculty Denis Daneman, MB, BCh, FRCPC, **head**, Amira Klip, PhD, Kusiel Perlman, MD, FRCPC, Joanne Rovet, PhD, Etienne Sochett, MB, BS, FRCPC, Diane Wherrett, MD, FRCPC **part-time** Susan Kirsch, MD, FRCPC, Sang Whay Kooh, MD, FRCPC

clinical fellows Adnan Al-Shaikh, MD (King Abdulaziz University) Saudi Arabia, Kausik Bandyopadhyay, MD (University of Calcutta) India, Mijin Brown, MD (University of Western Ontario) London, Carol Huang, MD (University of Toronto), Karen McAssey, MD (Queen's University) Kingston **research fellows** Jacqueline Curtis, MD (University of Toronto), Jill Hamilton, MD, FRCPC (University of Ottawa)

publications

- Al-Alwan I, Navarro O, Daneman D, Daneman A: Clinical utility of adrenal ultrasound in the diagnosis of congenital adrenal hyperplasia. *Journal of Pediatrics*: July 1999: 135: pp 71-75.
- Berkovitch M, Bistrizter T, Milone SD, Perlman K, Kucharczyk W, Koren G, Olivieri NF: Iron deposition in the anterior pituitary in Homozygous beta-thalassemia: MRI evaluation and correlation with Gonadal function. *Journal of Pediatric Endocrinology & Metabolism*: January 2000: 13: pp 179-184.
- Campbell DM, Atkinson A, Gillis D, Sochett EB: Cyclophosphamide and water retention: Mechanism revisited. *Journal of Pediatric Endocrinology and Metabolism*: January 2000: 13: pp 673-675.
- Foster LJ, Weir ML, Liu Z, Trimble WS, Klip A: A regulatory role for VAP-33 in insulin-stimulated GLUT4 traffic. *Traffic*: January 2000: 1: pp 512-521.
- Gorman D, Sochett E, Daneman D: The natural history of microalbuminuria in adolescents with type 1 diabetes. *Journal of Pediatrics*: July 1999: 134: pp 333-337.
- Ishaik G, Astzolos E, Perlman K, Newton S, Rovet JF: Hypothyroxinemia of prematurity and the development of infants' attention and memory skills. A pilot study. *Journal of Development and Behavioral Pediatrics*: January 2000: 21: pp 172-178.
- Jones JM, Lawson ML, Daneman D, Olmstead MP, Rodin G: Eating disorders in adolescent females with type 1 diabetes: A controlled three-site study. *British Medical Journal*: January 2000: 320(7249): pp 1563-1566.
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- Lawson ML, Frank MR, Fry MK, Perlman K, Sochett E, Daneman D: Intensive diabetes management in adolescents with type 1 diabetes: The importance of intensive follow-up. *Journal of Pediatric Endocrinology and Metabolism*: January 2000: 13: pp 79-84.
- McAssey K, Perlman K, Daneman D: Insulin therapy in children and adolescents with type I diabetes. *Diabetes, Nutrition & Metabolism*: July 1999: 12 (2): pp 86-95.

- Mirabella G, Feig D, Astzolos E, Perlman K, Rovet JF: The effect of abnormal intrauterine thyroid hormone economies on infant cognitive abilities. *Journal of Pediatric Endocrinology and Metabolism*: January 2000: 13: pp 191-194.
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- Sochett EB, Daneman D: Early diabetes related complications in children and adolescents with type 1 diabetes: Implications for screening and intervention. *Endocrinology Met Clin NA*: July 1999: 28(4): pp 865-882.
- Somwar R, Perrault M, Kapur S, Taha C, Kim DY, Sweeney G, Ramlal T, Cote CH, Klip A, Marette A: Activation of p38 mitogen-activated protein kinase alpha and beta isoforms by insulin in rat skeletal muscle: Participation in the stimulation of glucose transport. *Diabetes*: January 2000: 49: pp 1794-1800.
- Sweeney G, Niu W, Kanani R, Klip A: Regulation of the Na, K-pump by leptin in 3T3-L1 fibroblasts. *Endocrinology*: January 2000: 141: pp 1277-1280.
- Yaworsky K, Somwar R, Ramlal T, Tristchler HJ, Klip A: Engagement of the insulin-sensitive pathway in the stimulation of glucose transport by alpha-lipoic acid in 3T3-L1 adipocytes. *Diabetologia*: January 2000: 43: pp 294-303.

books and chapters in books

- Daneman D, Frank M, Perlman K: *When a Child has Diabetes* Firefly Books, US Edition, Buffalo, NY: 1999:
- Daneman D, Frank M, Perlman K: *When a Child has Diabetes* Firefly Books - US Edition, Buffalo, NY: 1999:
- Daneman D, Perlman K: Diabetes mellitus in childhood and adolescence. In: *Conn's Current Therapy* (Rakel RE, ed). W.B. Saunders, Toronto, ON: 1999: pp 548-555.

Daneman D, Perlman K: Diabetes mellitus in children and adolescents. In: Conn's Current Therapy (unknown, ed). unknown, unknown: 1999: pp 1-2.

McAssey K, Perlman K, Daneman D: Insulin therapy in children and adolescents with type 1 diabetes. Chapter 12. In: Diab. Nutr. Metab (unknown, ed). unknown, unknown: 1999: pp 86-95.

Somwar R, Sweeney G, Yaworsky K, Ramlal T, Tong P, Khayat Z and Klip A: Regulation of Glucose Transport by Insulin in Muscle and Fat Cells: Translocation and Activation of Glucose Transporters. In: Membrane Structure in Disease and Drug Therapy (Zimmer G, ed). Marcel Dekker, Inc., New York: 2000: pp 283-302.

research and investigations

Ontario Mental Health Foundation

Attention and memory in low risk prematurity as a function of Hypothyroxinemia at birth. *Rovet J, Perlman K*

current year \$126,000 term 1997 – 2000

Canadian Diabetes Association

Cerebral edema in pediatric diabetic ketoacidosis. *Muirhead S, Daneman D, Cummings E (Co-Investigators)*

current year \$30,000 term 1999 – 2001

Banting and Best Research Institute, University of Toronto

Clinical and Research Applications of a Diabetes Complications Database. *Sochett EB, Parikh A, Glaab M*

current year \$8,000 term 1999 – 2001

National Institutes of Health

Diabetes Prevention Trial – Type 1 (DPT – 1), Toronto and Regional Recruitment Coordinating Site Principal Investigator (US Funds). *Wherrett D*

current year \$28,000 term 1998 – 2000

Research Institute, Internal Division Funds

Early Ambulatory Blood Pressure Abnormalities in Adolescents with Type 1 Diabetes: Is sodium dysregulation (non-modulation) responsible for these changes? *Sochett EB, Curtis J, Daneman D*

current year \$34,000 term 1999 – 2000

Medical Research Council of Canada

Eating disorders in young women with type 1 diabetes. *Rodin G, Daneman D, Olmsted M (Co-Investigators)*

current year \$60,000 term 1999 – 2001

Juvenile Diabetes Foundation International

Eating disturbances and psychosocial functioning: A controlled study of preadolescent girls with insulin-dependent diabetes mellitus (US Funds). *Rodin G, Colton P, Daneman D, Olmsted M*

current year \$50,000 term 1998 – 2000

Pfizer Canada Inc.

Efficacy and safety of inhaled compared to subcutaneous human insulin in an intensive insulin regimen for subjects with Type 1 Diabetes Mellitus: A six month outpatient parallel comparative trial – a multicentered study. *Perlman K (P.I. for HSC site)*

current year \$45,000 1999 – 2000

Canadian Diabetes Association

Family functioning, gender and metabolic control in adolescents with diabetes mellitus. *Daneman D, Rodin G, Olmstead M (Co-Investigators)*

current year \$105,330 term 1999 – 2001

Paediatric Consultants, The Hospital for Sick Children

Genetic analysis of Pit-1, Prop, Lhx3 and Hsx3 genes in children with idiopathic hypopituitarism. *Daneman D, Hamilton J (Co-Investigator)*

current year \$3,200 term 1999 – 2000

Juvenile Diabetes Foundation International – Research Grant

GLUT4 Translocation: Vesicle fusion proteins, mechanisms and insulin resistance. *Klip A, Trimble W (US Funds)*

current year \$98,100 term 1998 – 2000

The Hospital for Sick Children Research Institute Seed Grant

Is poor glycemic control in adolescents with type 1 diabetes

amenable to pharmacotherapy? A pilot study of the insulin-sensitizing agent, Metformin. *Daneman D, Hamilton J, Cummings E, Sochett E, Zinman B (Co-Investigators)*

current year \$29,808 term 1998 – 2000

Pfizer Canada Inc

Long term safety of inhaled human insulin: Extension of therapy in subjects with Type 1 or Type 2 Diabetes Mellitus completing randomized Phase III Treatment trials – a multicentered study. *Perlman K (P.I. for HSC site)*

current year \$32,000 term 2000 – 2001

Pfizer Canada Inc

Long term safety of inhaled human insulin: Extension of therapy in subjects with Type 1 or Type 2 Diabetes Mellitus completing randomized Phase III Treatment trials – a multicentered study. *Perlman K (P.I. for HSC site)*

current year \$32,000 term 2000 – 2001

Ministry of Health Ontario, Positive Action Fund

Metabolic Abnormalities Associated with Protease Inhibitor Use in HIV Infected Children. *Sochett EB, King S, Bitnum A*

current year \$33,500 term 1999 – 2001

Medical Research Council of Canada – Operating Grant

Molecular regulation of glucose transport in muscle (plus student voucher). *Klip A*

current year \$82,000 term 1995 – 2000

Canadian Diabetes Association, 'Dorothy Frater' Research Grant

Novel mechanisms of regulation of glucose transporters. *Klip A*

current year \$60,000 term 1998 – 2000

Canadian Diabetes Association, Research Grant

Regulation of the intrinsic activity of glucose transporters by insulin. *Klip A*

current year \$60,000 term 2000 – 2001

Medical Research Council of Canada

The Canadian/European Trial of Nicotinamide to Prevent Insulin Dependent Diabetes Mellitus. *Wberrett D*

current year \$6,000 term 1998 – 2000

Medical Research Council of Canada

Thyroid hormone, attention, and memory in congenital hypothyroidism and ADHD. *Rovet J, Daneman D (Co-Investigator)*

current year \$70,000 term 1998 – 2001

gastroenterology/clinical nutrition

faculty Stanley Zlotkin, MD, PhD, **head**, Mary Corey,

MSc, PhD, Peter Durie, MD, Katryn Furuya, MD, Anne

Griffiths, MD, Nicola Jones, MD, PhD, Margaret

Marcon, MD, Paul Pencharz, MB, ChB, PhD, Eve

Roberts, MD, Philip Sherman, MD

part-time Glenn Berall, MD, Carol Durno, MD **clinical**

fellows Jae Kim, MD, Jeffrey Critch, MD, Simon Ling,

MD, Michael Stormon, MD

research fellows Najma Ahmed, MD, Assad Butt, MD,

Andrew Day, MD, Martha Dirks, MD, Hedy Ginzberg,

MD, Latifa Yeung, MD, Mary Zachos, MD

publications

Bertolo RFP, Pencharz PB, Ball RO: Comparison of parenteral and enteral feeding in neonatal piglets including an assessment of the utilization of a glutamine rich pediatric elemental diet. *Journal of Parenteral and Enteral Nutrition*: July 1999; 23: pp 47-55.

Bourke B, Sherman P: Gastrointestinal Infections in Children. *Current Opinion in Gastroenterology*: October 1999; 15: pp 79-84.

Bousvaros A, Marcon M, Treem W, Waters P, Issenman R, Couper R, Burnell R, Rosenberg A, Rabinovich E, Kirschner BS: Chronic recurrent multifocal osteomyelitis associated with chronic inflammatory bowel disease in children. *Digestive Diseases and Sciences*: July 1999; 44: pp 2500-2507.

Bross R, Ball RO, Clarke JTR, Pencharz PB: Tyrosine requirements in children with classical PKU determined by indicator amino acid oxidation. *American Journal of Physiology*: June 2000; 278: pp E195-201.

Brunton JA, Bertolo RFP, Pencharz PB, Ball RO: Proline ameliorates arginine deficiency during enteral feeding but not during parenteral feeding in neonatal piglets. *American Journal of Physiology*: July 1999; 277: pp E223-E231.

Chung C, Van Hoof L, Policova Z, Beharry S, Sherman P, Neumann A, Durie P: Surface Hydrophobicity is Increased in the Ileum and Proximal Colon of Cystic Fibrosis Mice. *Pediatric Research*: October 1999; 46: pp 174-178.

Comanor L, Minor J, Sokal EM, Conjeevaram HS, Roberts EA, Alvarez F, Bern EM, Goyens P, Rosenthal P, Lachaux A, Shelton M, Sarles J, Hoofnagle J: Statistical models for predicting response to interferon - a and spontaneous seroconversion in children with chronic hepatitis B. *J Viral Hepat*: January 2000; 7: pp 144-152.

Courtney-Martin G, Rafii M, Ball RO, Clarke JTR, Bross R, Pencharz PB: Phenylalanine requirement in children with classical phenylketonuria (FASEB): 1999:

Darling PB, Bross R, Wykes LJ, Ball RO, Pencharz PB: Isotopic enrichment of amino acids in urine following oral infusions of L-[1-13 C]phenylalanine and L-[1-13 C]lysine in humans: Confounding effect of D-[13 C]amino acids. *Metabolism*: July 1999; 48: pp 732-737.

Darling PB, Dunn M, Sawar GG, Brookes S, Ball RO, Pencharz PB: Threonine kinetics in preterm infants fed their mother's milk or formula with varying whey: Casein ratios. *American Journal of Clinical Nutrition*: July 1999; 69: pp 105-114.

Darling PB, Grunow J, Rafii M, Brookes S, Ball RO, Pencharz PB: Threonine dehydrogenase is a minor degradative pathway of threonine catabolism in human adults. *American Journal of Physiology*: June 2000; 278: pp E877-E884.

Day A, Jones N, Lynett JT, Jennings HA, Fallone CA, Beech R, Sherman P: cagE is a Virulence Factor Associated with Helicobacter pylori-induced Duodenal Ulceration in Children. *Journal of Infectious Diseases*: October 1999; 181: pp 1370-1375.

Day A, Sherman P: Understanding Disease Outcome Following Acquisition of Helicobacter pylori Infection during Childhood. *Canadian Journal of Gastroenterology*: October 1999; 13: pp 229-234.

Day AS, Jones NL: ENRAGE: Taming the rage of inflammation. *Journal of Pediatric Gastroenterology and Nutrition*: January 2000; 30: pp 344-45.

Day AS, Jones NL, Lynett JT, Jennings HA, Fallone CA, Sherman PM: cagE is a virulence factor associated with Helicobacter pylori-induced duodenal ulceration in children. *Journal of Infectious Diseases*: January 2000; 181: pp 1370-75.

Durno C, Schukett B, Williams T, Drossman D, Cutz E, Griffiths AM: Magnetic resonance imaging to distinguish the type and severity of pediatric inflammatory bowel diseases. *Journal of Pediatric Gastroenterology and Nutrition*: January 2000; 30: pp 170-174.

Durno C, Schukett B, Williams T, Drossman D, Cutz E, Griffiths AM: Magnetic resonance imaging to distinguish the type and severity of pediatric inflammatory bowel diseases. *Journal of Pediatric Gastroenterology and Nutrition*: June 2000; 30:

Durno C, Sherman P, Williams T, Shuckett B, Dupuis A, Drossman D, Griffiths A: Magnetic Resonance Imaging to Distinguish the Type and Severity of Pediatric Inflammatory Bowel Diseases. *Journal of Pediatric Gastroenterology and Nutrition*: October 1999; 30: pp 170-174.

Foster D, Philpott D, AbuMih M, Huesca M, Sherman P, Lingwood C: Phosphatidyl Ethanolamine Recognition Promotes

- Enteropathogenic E-coli and Enterohemorrhagic E-coli Host Cell Attachment. *Microbial Pathogenesis*: October 1999; 27: pp 289-301.
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- Griffiths AM: State of the art: IBD in children. The doctor in focus Symposium Proceedings, Montreaux, Switzerland: 2000:
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- Jones N, Day A, Jennings H, Sherman P: Helicobacter pylori Induces Gastric Epithelial Cell Apoptosis in Association with Increased Fas Receptor Expression. *Infection and Immunity*: October 1999; 67: pp 4237-4244.
- Jones N, Day A, Sherman P: Determinants of Disease Outcome Following Helicobacter pylori Infection in Children. *Canadian Journal of Gastroenterology*: October 1999; 17: pp 613-617.
- Jones N, Islur A, Hag R, Mescerenhes M, Karmali M, Perdue M, Zanke B, Sherman P: Escherichia coli Shigatoxins Induce Apoptosis in Epithelial Cells that are Regulated by the bcl-2 Family. *American Journal of Physiology*: January 2000; 278: pp G811-819.
- Jones N, Sherman P: Helicobacter pylori – Epithelial Cell Interactions: From Adhesion to Apoptosis. *Canadian Journal of Gastroenterology*: October 1999; 17: pp 563-566.
- Jones NL, Day AS, Jennings H, Sherman PM: Helicobacter pylori induces gastric epithelial cell apoptosis in association with increased Fas receptor expression. *Infection and Immunity*: July 1999; 67: pp 4237-4242.
- Jones NL, Day AS, Sherman PM: Determinants of disease outcome following Helicobacter pylori infection in children. *Canadian Journal of Gastroenterology*: July 1999; 13: pp 613-637.
- Jones NL, Islur A, Haq R, Mascarenhas M, Karmali MA, Perdue MH, Zanke BW, Sherman PM: Escherichia coli Shiga toxins induce apoptosis in epithelial cells that is regulated by the Bcl-2 family. *American Journal of Physiology: Gastrointestinal and Liver Physiology*: January 2000; 278: pp G811-G819.
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books and chapters in books

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Griffiths AM: Nutrition and inflammatory bowel disease. In: Modern nutrition in health and disease, Ninth edition (Shils M, Shikh, eds). Williams & Wilkins, Baltimore, MD: 1999: pp 1141-1149.

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Griffiths AM, Sutherland LR: Meta-analysis: principle and results in inflammatory bowel disease disorders. In: Maladies inflammatoires de l'intestin Collection Progres en Hepatogastroenterologie.; 1999:

Jones NL, Sherman PM: Gastropathies: Pathophysiology and clinical features. In: Pediatric Gastrointestinal Diseases, second edition (Wyllie R, Hyams JS, eds). W.B. Saunders Company, Philadelphia: 1999: pp 245-256.

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Marcon MA: Endoscopy. In: 2nd Edition Pediatric Gastrointestinal Imaging (Stringer DA, ed). B. C. Decker Inc., Toronto: 2000: pp 75-96.

research and investigations

Senior Investigator's Name Appears in Italics
 American Digestive Health Foundation Research Scholar Award
 American Digestive Health Foundation Research Scholar Award. *Jones NL (US Funds)*
 current year \$50,000 term 2000 – 2003

Schering-Plough
 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*
 current year \$16,524 term 2000 – 2002

Medical Research Council of Canada
 Characterization of a new ABC gene, PRP, and identification

of its partner proteins. *Furuya KN*
 current year \$61,263 term 1998 – 2001

National Cancer Institute of Canada
 Characterization of a novel ATP binding cassette gene, PRP, that is overexpressed during hepatocarcinogenesis. *Furuya KN, Harper P*
 current year \$91,105 term 1998 – 2001

Canadian Cystic Fibrosis Foundation
 Complete CFTR mutation characterization for cystic fibrosis patients: A multi-center Canada wide study. *Zielenski J, Corey M, Tsui LC, Durie PR*
 current year \$64,000 term 1997 – 2000

Solvay Pharmaceuticals
 Correlation of non-invasive breath test indices with intraluminal measurements of lipid and starch digestion in cystic fibrosis patients with pancreatic insufficiency. *Durie PR*
 current year \$152,108 1999 – 2000

Crohn's and Colitis Foundation of Canada
 Decreased bone mineral density in pediatric inflammatory bowel disease: a prospective study of risk factors and basic pathogenic mechanisms. *Griffiths, AM, Dr. Gillian Hawker*
 current year \$34,328 term 1999 – 2002

Program in Food Safety, University of Toronto
 Evaluate nutritional impact of restricted fat intake in children. *Zlotkin SH*
 current year \$20,000 term 1998 – 2000

Canadian Cystic Fibrosis Foundation
 Factors that influence disease severity in cystic fibrosis – links with the exocrine pancreas. *Durie PR*
 current year \$106,904 term 1999 – 2002

Medical Research Council of Canada
 Function and regulation of human hepatic cytochrome

P4501A2 (CYP1A2) in novel in vitro systems for culturing human hepatocytes. *Roberts EA*
 current year \$74,104 term 1997 – 2000

Ellipsis Corporation
 Genetic studies in pediatric IBD. *Siminovitch K, Scherer S, Tsui L-C, Griffiths AM*
 current year \$34,000 term 1999 – 2000

Medical Research Council
 Genetics and positional cloning of Shwachman syndrome defect. *Rommens J, Durie PR*
 current year \$101,905 term 1998 – 2001

HSC Research Institute, Seed Grant Competition
 Histidine treatment of hepatic copper toxicosis in the toxic milk mouse, a model for Wilson disease. *Roberts EA, Sarkar B (co-principal investigators)*
 current year \$17,216 term 2000 – 2001

Canadian Association of Gastroenterology/Astra Zeneca Research Initiative Award (supported by MRC/PMAC)
 Host Cell Signal Transduction Responses to Helicobacter pylori Infection. *P Sherman*
 current year \$62,500 term 1999 – 2001

Crohn's and Colitis Foundation of Canada
 Interaction of Campylobacter jejuni with Human Intestinal Epithelial Cells. *V.L. Chan, Sherman P*
 current year \$50,000 term 1997 – 2000

Medical Research Council of Canada
 Mechanisms of Adhesion of Attaching and Effacing Gastrointestinal Bacterial Pathogens. *P Sherman*
 current year \$72,000 term 1997 – 2002

Human Nutrition Institute of the ILSI Research Foundation
 Microencapsulated iron and vitamin A supplement to treat and prevent iron and vitamin A deficiency (*US Funds*). *Zlotkin SH*

current year \$105,192 term 1999 – 2000

IDRC – Micronutrient Initiative

Microencapsulated iron-zinc supplements for infants. *Zlotkin SH*

current year \$62,400 term 1999 – 2000

World Vision Canada

Micronutrient sprinkles in a relief setting – Kenya. *Zlotkin SH*

current year \$37,344 term 1999 – 2000

National Institutes of Health SCOR Grant (NIDDK)

Molecular basis of the cystic fibrosis phenotype (2P50 DK49096-06), (US Funds). *Durie PR (Project 1), Tsui LC (Co-Director)*

current year \$135,000 term 1999 – 2004

MRC/Health Canada Fellowship (Hepatitis C)

MRC/Health Canada Fellowship (Hepatitis C). *Yeung L, Roberts EA (supervisor)*

current year \$48,500 term 2000 – 2002

University of Toronto Connaught New Staff Matching Grant

Pathogenesis of *H. pylori* infection. *Jones NL*

current year \$22,500 term 2000 – 2002

Canadian Digestive Disease Foundation

Prevention of *Helicobacter pylori* infection. *Jones NL*

current year \$30,000 term 2000 – 2001

American Association for the Study of Liver Diseases

Schering Advanced Hepatology Fellowship. *Dirks M, Roberts EA (supervisor) (US Funds)*

current year \$50,000 term 2000 – 2001

Medical Research Council (Operating Grant)

Studies in protein and energy metabolism of neonates (1980-1994) / Neonatal protein and energy metabolism (1995-2000). *Pencharz P*

current year \$67,211 term 1980 – 2000

Canadian Cystic Fibrosis Foundation

The effect of cystic fibrosis related diabetes mellitus on protein metabolism. *Pencharz P, Tullis E*

current year \$51,598 term 1997 – 2000

Organon Inc.

The fate of ingested pancreatic enzyme in patients with cystic fibrosis and pancreatic insufficiency. *Durie PR*.

current year \$107,530 term 1999 – 2000

The Physicians' Services Incorporated Foundation

The hippurate ratio: A new quantitative test of liver function. *Furuya KN, Hemming A*

current year \$46,000 term 1998 – 2000

Hospital for Sick Children Seed Grant

The role of T cells during *H. pylori* infection. *Jones NL*

current year \$28,750 term 2000 – 2001

Medical Research Council (Operating Grant)

The use of indicator amino acid oxidation to determine amino acid requirements. *Pencharz P, Ball R*

current year \$108,912 term 1988 – 2000

Human Nutrition Institute of the ILSI Research Foundation

Transferrin receptor on dried filter paper (US Funds). *Zlotkin SH*

current year \$43,975 term 1999 – 2000

haematology/oncology

faculty Victor S Blanchette, MB, BChir, FRCP, FRCP(C)

– head, Mohamed Abdellhaleem, Maureen Andrew, MD,

Sylvain Baruchel, MD, Evelyn M Boyle, MD, FRCP(C),

Manuel Carcao, MD, FRCP(C), FAAP, Anthony Chan,

Helen SL Chan, MB, BS, FRCP(C), FAAP, David B Dix,

MBChB, FRCP(C), FAAP, John J Doyle, MD, FRCP(C),

FAAP, Melvin H Freedman, MD, FRCP(C), FAAP, Ronald

M Grant, MD, FRCP(C), Mark L Greenberg, MB, ChB,

FRCP(C), FAAP, Johann (Hans) Hitzler, MD, FRCP(C),

Melanie Kirby, MBBS, FRCP(C), David Malkin, MD,

FRCP(C), FAAP, Patricia Massicotte, MSc, MD, FRCP(C),

Nancy F Olivieri, MD, FRCP(C), Carol Portwine, MD,

FRCP (C), FAAP, E Fred Saunders, MD, FRCP(C), Sheila

Weitzman, MB, FRCP(C) **part-time** Ibrahim Al-Hashmi,

MBBS, FRCP(C), Robert Lau, MB,BS, FRCP(C) **clinical**

fellows Fawaz Al-Kasim, (Saudi Arabia), Ebtessam Al-

Oneizi, Alex Barron, (London, Ontario), Lynette

Bowes, Annie Huang, (University of Toronto, Canada),

Deborah Levy, Arumugavadivel Narendran, (University

of Toronto, Canada), Paul Nathan, Shoshana Revel-

Vilk, Anjali Sharathkumar, Supriya Sharma, Lillian

Sung, (University of Toronto, Canada), Ian Thornley,

(England), Kathia Valverde, (Costa Rica) **research fel-**

lows Hassan Al-Trabolsi, (Saudi Arabia), Bikul Das,

MD, Benjamin Gesundheit

publications

Adamkiewicz TV, Lorenzana A, Doyle J, Richardson S: Peripheral vs. central blood cultures in patients admitted to a pediatric oncology ward. *Pediatric Infectious Diseases*: July 1999; 18: pp 556-557.

Al-Jefri AH, Dror Y, Bussel JB, Freedman MH: Thrombocytopenia with absent radii: Frequency of marrow megakaryocyte growth and development factor-responsiveness. *Pediatric Hematology and Oncology*: January 2000; 17: pp 299-306.

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(G-CSF) receptor in a case of severe congenital neutropenia hyporesponsive to G-CSF treatment. *Journal of Experimental Medicine*: July 1999; 190: pp 497-508.

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Zeidler C, Welte K, Barak Y, Barriga F, Bolyard AA, Boxer L, Cornu G, Cowan MJ, Dale DC, Flood T, Freedman MH, Gardner H, Mandel H, O'Reilly RJ, Ramenghi U, Reiter A, Skinner R, Vermlyen C, Levine JE: Stem cell transplantation in patients with severe congenital neutropenia without evidence of leukemic transformation. *Blood*: January 2000; 95: pp 1195-1198.

books and chapters in books

Andrew M: Thromboembolic complications (Chapter 34). In: *Pediatric Hematology* (2nd Edition) (Lilleymann J, Hann I, Blanchette V, eds). Churchill Livingstone, London, UK: 1999: pp 679-706.

Andrew M, deVeber G: (Handbook). *Pediatric Thromboembolism and Stroke Protocols* B. C. Decker Inc., Hamilton: 1999:

Blanchette VS, Rand ML, Carcao MD, Hume H: Platelet transfusion therapy in children and newborn infants. In: *Current Issues in Platelet Transfusion Therapy and Platelet Alloimmunity* (Kickler T, Herman J., eds). AABB Press, Bethesda, Maryland: 1999: pp 177-222.

Dennis M, Hetherington CR, Spiegler BJ, Barnes MA: Functional consequences of congenital cerebellar dysmorphologies and acquired cerebellar lesions of childhood. In: *The Changing Nervous System: Neurobehavioral Consequences of Early Brain Disorders* (Broman SH, Fletcher JM, eds). Oxford University Press, New York, NY:

1999: pp 172-198.

Greenberg S: Learning Disabilities and Attention Hyperactivity Disorder. In: *Evidence-Based Pediatrics* (Feldman W, ed). B.C. Decker Inc., Hamilton: 2000: pp 415-437.

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Rand ML, Murray RK: Plasma proteins, immunoglobulins, and blood coagulation. In: *Harper's Biochemistry* (25th edition) (Murray RK, Granner DK, Mayes PA, Rodwell VW, eds). Appleton & Lange, Stamford, Connecticut: 2000: pp 737-762.

research and investigations

Children's Hospital of Eastern Ontario Research Institute

A feasibility study of fever and neutropenia triage for outpatient management (Trial involves both The Hospital for Sick Children and Children's Hospital of Eastern Ontario). *Doyle J (Local principal investigator at The Hospital for Sick Children)*

current year \$15,000 term 1999 - 2000

NCIC (Canada)

A molecular epidemiologic case-control study of paediatric brain tumours in Ontario. *McLaughlin J, Jain M, Malkin D, Rutka J, Wells P, Greenberg M (co-investigators)*

current year \$160,276 term 1997 - 2000

Fujisawa Healthcare Inc.

A phase 3, randomized, double-blind, comparative trial of FK463 versus fluconazole for prophylaxis of fungal infections in patients undergoing a hematopoietic stem cell transplant (Total award amount is \$4,000 per patient). *Doyle J (Local principal investigator at The Hospital for Sick Children)*

current year \$4,000 term 1999 - 2000

Medical Research Council

A randomized controlled trial in children comparing standard heparin versus the low molecular weight heparin, Clivarin for the treatment of deep venous thrombosis and/or pulmonary

embolism. *Massicotte MP, Dr. Maureen Andrew, Senior Investigator and Prof. Michael Gent, Clinical Trials Methodology and Jim Julian, Clinical Trials Methodology, Hamilton Civic Hospitals Research Centre, Hamilton, ON, in collaboration with The Hospital for Sick Children, Toronto, ON (Grant PA-14591)*

current year \$61,281 term 1997 - 1999

Knoll Pharma Germany

A randomized controlled trial in children comparing standard heparin versus the low molecular weight heparin, Clivarin for the treatment of deep venous thrombosis and/or pulmonary embolism. *Massicotte MP, Dr. Maureen Andrew, Senior Investigator and Prof. Michael Gent, Clinical Trials Methodology and Jim Julian, Clinical Trials Methodology, Hamilton Civic Hospitals Research Centre, Hamilton, ON, in collaboration with The Hospital for Sick Children, Toronto, ON*

current year \$410,984 term 1997 - 1999

Medical Research Council (Grant PA-14588)

A randomized controlled trial in children comparing the low molecular weight heparin, Clivarin versus placebo for the thromboprophylaxis of central venous catheters. *Massicotte MP, Dr. Maureen Andrew, Senior Investigator and Prof. Michael Gent, Clinical Trials Methodology and Jim Julian, Clinical Trials Methodology, Hamilton Civic Hospitals Research Centre, Hamilton, ON, in collaboration with The Hospital for Sick Children, Toronto, ON*

current year \$139,988 term 1997 - 1999

Knoll Pharma Germany

A randomized controlled trial in children comparing the low molecular weight heparin, Clivarin versus placebo for the thromboprophylaxis of central venous catheters. *Massicotte MP, Dr. Maureen Andrew, Senior Investigator and Prof. Michael Gent, Clinical Trials Methodology and Jim Julian, Clinical Trials Methodology, Hamilton Civic Hospitals Research Centre, Hamilton, ON, in collaboration with The Hospital for Sick Children, Toronto, ON*

current year \$764,010 term 1997 - 1999

The Hospital for Sick Children Seed Grant Competition

A randomized controlled trial of once daily versus three times daily tobramycin in combination with piperacillin in febrile neutropenic children undergoing bone marrow transplantation. *Doyle J*

current year \$14,730 term 2000

The Hospital for Sick Children Research Institute Seed Grant Adenovirus-mediated p53 gene transfer in aggressive sarcomas of childhood. *Malkin D*

current year \$15,663 term 1999 – 2001

Children's Hospital of Eastern Ontario Research Institute

An examination of interleukin-1 and interleukin-1 receptor antagonist levels in children with febrile neutropenia (Trial involves both The Hospital for Sick Children and Children's Hospital of Eastern Ontario). *Doyle J (Local principal investigator at The Hospital for Sick Children)*

current year \$15,000 term 1999 – 2000

Brain Child Grant

Angiogenesis (bFGF, VEGF) and Ras activation in neurofibromatosis type 1 associated plexiform neurofibroma. *Baruchel S*

current year \$14,600 term 1999 – 2001

The Hospital for Sick Children Seed Grant Competition

Angiogenesis (bFGF, VEGF) and Ras activation in neurofibromatosis type 1 associated plexiform neurofibroma. *Baruchel S, Parkin P, Gesundheit B, Becker L, Guba A*

current year \$37,500 term 2000 – 2001

National Institutes of Health – HL-97-013

Augmentation of fetal hemoglobin in beta thalassemia. *Olivieri NF (US Funds)*

current year \$1,457,100 term 1998 – 2003

Aplastic Anemia Association of Toronto

Biology of marrow failure in Shwachman-Diamond Syndrome. *Freedman MH*

current year \$20,000 term 1998 – 1999

Heart and Stroke Foundation of Ontario (Grant NA-4107)

Bone density in children on long term warfarin. *Massicotte MP, Dr. Jackie Halton, Hematology, Children's Hospital of Eastern Ontario, Ottawa, ON; Dr. Steven Shaughnessy, Hamilton Civic Hospitals Research Centre, Hamilton, ON; Dr. Colin Weber, Nuclear Medicine, Hamilton Health Sciences Corporation, McMaster Site, Hamilton, ON; and, Jim Julian, Clinical Trials Methodology, Hamilton Civic Hospitals Research Centre, Hamilton, ON*

current year \$104,300 term 1999 – 2001

Heart and Stroke Foundation of Canada T3157

Cardiac iron loading and gene expression. *Olivieri NF*

current year \$147,000 term 1999 – 2002

Medical Research Council of Canada/Pharmaceutical Manufacturers Association of Canada

Chronic pain and quality of life in Sickle Cell disease: A developmental approach to assessment. *Hetherington R, Olivieri NF*

current year \$124,540 term 1998 – 2000

Bayer Canada/Canadian Red Cross Society Blood Services, Research and Development Programme

Cost-effectiveness of escalating dose factor VIII prophylaxis in severe hemophilia A. *Blanchette V, Feldman B (Co-P.I.)*

current year \$473,000 term 1996 – 2001

Hamilton Health Sciences Foundation

Creatine supplementation in children with cancer on corticosteroids. *Chan AKC (co-investigator)*

current year \$24,200 term 1999 – 2000

Heart and Stroke Foundation of Ontario, Grant No. NA4020

Development of a novel covalent antithrombin-heparin complex. *Chan AKC Andrew M (Co-Investigator)*

current year \$26,500 term 1999 – 2001

Ontario Research and Development Challenge Fund/Glyco

Design Inc

Development of a thromboresistant surface using a novel covalent antithrombin-heparin complex. *Chan AKC. (Annual renewal)*

current year \$12,000 term 1999 – 2004

MRC

Drug resistance genes in retinoblastoma that failed therapy. *Chan HSL, DeBoer G, Gallie BL, Grogan TM, Cole S, Deeley R, Ling V:*

current year \$98,408 term 1998 – 2001

National Institutes of Health – HL-96-001B

E/beta Thalassemia: Study of the natural history and response to chemotherapy. *Vichinsky E, Oakland, California, Olivieri NF (US Funds)*

current year \$1,996,255 term 1998 – 2003

Medical Research Council of Canada Group Grant

Effect of heparin derivatives on thrombin regulation by the fetal lung surface. *Chan AKC*

current year \$20,302 term 1999 – 2002

Medical Research Council of Canada

Equipment and maintenance (flow cytometry). *Malkin D, Guidos C, Buchwald M, Chamberlain J, Cohen A, Danska J, Dick J, Dosch HM, Grinstein S, Letarte M, Rutka J*

current year \$50,000 term 1998 – 2001

The Liposome Company

Factors associated with a switch from regular amphotericin B to lipid amphotericin B among BMT patients. *Doyle J*

current year \$15,000 term 1999 – 2000

Searle Canada, Unit of Monsanto Canada Inc. Educational Grant

Flow cytometric evaluation of stem cell progenitors in pediatric cancer patients receiving Ifosfamide, Carbonplatin, Etoposide and Leridistim – A pilot study. *Baruchel S, Freedman M,*

Moghrabi A, Schultz K, Mitchell D

current year \$71,000 term 2000 – 2001

The Hospital for Sick Children SEED Grant

Fresh heparinized whole blood vs CPD donor blood in cardiopulmonary bypass. *Gruenwald C, Massicotte MP, Van Arsdel G*

current year \$12,090 term 1999 – 2000

Medical Research Council of Canada

Group in lung development project “Effect of Heparin derivatives on thrombin regulation by the fetal lung surface.”. *Chan AKC, Andrew M, O’Brodoovich H (Co-Investigators)*

current year \$69,000 term 1999 – 2002

Pediatric Consultants Research Grant Committee

Hematopoietic replicative stress (in support of Dr. Ian Thornley). *Freedman MH*

current year \$4,870 1999 – 2000

HSC Canada

Home chemotherapy for children with cancer. *Stevens B, Greenberg M (co-investigators)*

current year \$93,590 term 1998 – 2001

Medical Research Council of Canada MT-11270

Impact of Chelation on iron transport and regulations. *Templeton D, Olivieri NF*

current year \$240,000 term 1999 – 2004

Isshu-Genki Pharm

In vitro activity of squalene as a chemopotentiating agent in neuroblastoma cell lines and as a cytoprotective agent in bone marrow progenitors. *Baruchel S, Das B*

current year \$63,000 term 2000 – 2001

Brain Child Grant

Investigation of bFGF and VEGF as markers of angiogenesis in childhood brain tumors. *Baruchel S*

current year \$31,550 term 1998 – 2001

Canadian Blood Services, Research and Development Program

Investigations of recipient immunity against allogeneic leukoreduced platelet transfusions. *Semple JW (P.I.), Freedman J, Blanchette VS (co-investigators)*

current year \$242,779 term 1999 – 2002

National Institutes of Health – HL-96-001B

Iron chelation therapy in sickle cell disease. *Olivieri NF*

current year \$525,000 term 1999 – 2002

Hecht Memorial Foundation

Jak 2 Tyrophostin Inhibitors for ALL. *Freedman MH, Roifman C*

current year \$16,000 term 1998 – 2001

NCIC

Multidrug resistance P170 and MRP proteins in failure of paediatric cancer therapy. *Chan HSL, Ling V, Cole S, Deeley R, Grogan TM, Sehested M, DeBoer G, Scheper RJ, Ikegaki N, Gallie BL*

current year \$49,425 term 1999 – 2002

National Institutes of Health – HL-97-013

Non-transferring-bound plasma iron and deferoxamine therapy. *Porter J, Olivieri NF (US Funds)*

current year \$1,305,480 term 1998 – 2003

HSC Foundation Grant

On the Tip of the Toes Expedition 2000 – Ellesmere National Park Nunavut. *Baruchel S*

current year \$52,000 term 1999 – 2000

Schering Plough Grant

Phase I study of oral continuous administration of temodal in recurrent brain tumors – A Canadian Phase I study. *Baruchel S*

current year \$94,000 term 1999 – 2001

Pharmacia Corporation

Pilot study of low dose chemotherapy and cyclo-oxygenase-2 inhibitor as anti-angiogenic therapy in children with progressive or recurrent solid tumors. *Baruchel S*

current year \$15,000 term 2000 – 2001

Canadian Blood Services, Research and Development Program

Prevention of platelet alloimmunization in a human-PBL-SCID mouse model. *Lazarus A (P.I.), Freedman J, Blanchette VS (co-investigators)*

current year \$286,912 term 1999 – 2002

National Cancer Institute of Canada

Psychological Outcomes and Quality of Life after Pediatric Bone Marrow Transplantation. *Saunders EF, Barrera M*

current year \$80,000 term 2000 – 2003

Sangstat

Rabbit ATG in BMT. *Saunders EF*

current year \$7,500 term 1998 – 2000

Heart and Stroke Foundation of Ontario

Randomized controlled trial of anticoagulation in post Fontan children. *Andrew M, McCrindle B (Co-Investigator)*

current year \$160,706 term 1998 – 2000

Rhone-Poulenc Rorer Canada Inc.

Randomized placebo controlled trial of oral antibiotics in paediatric oncology patients with fever and neutropenia (Total award amount does not include product support). *Doyle J*

current year \$460 term 1996 – 1999

Hospital for Sick Children, Seed Grant Competition

Replicative stress after stem cell transplantation (in support of Dr. Ian Thornley). *Freedman MH*

current year \$35,592 term 1999 – 2001

Hospital for Sick Children SEED Grant

Sensitivity and specificity of ultrasounds and lineograms vs

venography in children with central venous lines. *Massicotte MP, Dr. Peter Chait, Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON*

current year \$5,040 term 1998 – 2000

The Hospital for Sick Children, Paediatric Consultants

Sensitivity and specificity of ultrasounds and lineograms vs venography in children with central venous lines. *Massicotte MP, Dr. Peter Chait, Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON*

current year \$2,000 term 1998 – 2000

Heart and Stroke Foundation of Ontario (Grant NA-3670)

Sensitivity and specificity of ultrasounds and lineograms vs venography in children with central venous lines. *Massicotte MP, Dr. Peter Chait, Diagnostic Imaging, The Hospital for Sick Children, Toronto, ON*

current year \$65,800 term 1998 – 2000

National Institutes of Health – HL52193-02

Stroke prevention trial in Sickle Cell disease. *Adams R, Olivieri NF (US Funds)*

current year \$300,000 term 1995 – 2001

Grant Miller Cancer Research Grant

Studies to determine the presence of SV40 viral sequences and anti-SV40 antibodies in patients with osteosarcoma. *Malkin D*

current year \$20,000 term 1999 – 2000

National Institutes of Health, USA

Thalassemia Centers' Grant – HL-99-016 (US Funds). *Olivieri N*

current year \$750,000 term 2000 – 2005

Bloorview Children's Hospital Foundation

The Bloorview Children's stroke project. *deVeber G, MacGregor D, Curtis R, Tuff L, Friefeld, Andrew M (Co-Investigators)*

current year \$208,000 term 1998 – 2001

Centeon Canadian Granting Program

The platelet collagen receptor $\alpha 2B1$ integrin and frequency of a silent polymorphism in the $\alpha 2$ gene coding sequence in patients with type I von Willebrand Disease. *Rand M, Freedman J, Lillicrap D, Teitel JM, Treutiger I, Blanchette VS (Co-PI.)*

current year \$25,264 term 1999 – 2000

Heart and Stroke Foundation of Ontario

The procoagulant surface of activated platelets: Persistence in vivo and in vitro. *Rand ML, Freedman J*

current year \$126,404 term 1999 – 2001

Medical Research Council, Research Scholarship Award

Thrombosis program in children. *Massicotte PM*

current year \$31,350 term 1998 – 2000

Knoll Pharma

Thrombosis program in children. *Massicotte PM*

current year \$125,398 term 1998 – 2000

NIH/NCI The American College of Surgeons Oncology Trials Group Grant

Trial S16: Chemotherapy for Intraocular Retinoblastoma. A randomized trial of cyclosporine with chemotherapy for the poorest prognosis retinoblastoma tumors. Trial S17: Chemotherapy For Intraocular Retinoblastoma. A single-arm trial of chemotherapy for medium-sized retinoblastoma tumors. *Gallie BL, Chan HSL, Murphree AL*

current year \$612,943 term 2000 – 2003

Medical Research Council of Canada

Warfarin prophylaxis in systemic lupus erythematosus patients with antiphospholipid antibodies. *Mitchell L, Ginsburg J (Principle Investigators), Andrew M, Silverman E, Denburg J, Denburg S, Gent M (Professor), (Co-Investigators)*

current year \$165,000 1998 – 2001

immunology/allergy

faculty Chaim Roifman M.D., **head**, Adelle Atkinson

M.D., Amos Cohen PhD, Gordon Donsky M.D., Milton

Gold M.D., Sergio Grinstein PhD, David Hummel M.D.,

Howard Langer M.D., Sasson Lavi M.D. **clinical fel-**

lows Michelle McLaughlin M.D. (Senior resident), Eyal

Grunebaum M.D. **research fellows** James Booth PhD,

Marc Coppolino PhD, Patricia Cuellar-Mata PhD,

Andrew Freywald PhD, Rene Harrison PhD, Hisayoshi

Hayashi PhD, John Marshall PhD, Katalin Szaszi PhD,

Mauricio Terebiznik PhD, Shirley Tse, M.D./PhD, Otilia

Vieira PhD

publications

Arpaia E, Benveniste P, Di Cristofano A, Kelly S, Hershfield M, Pandolfi PP, Roifman CM: Mitochondrial basis for immuno-deficiency: evidence from purine nucleoside phosphorylase deficient mice. *Journal of Exp Medicine*: June 2000: 191(12)Jun: pp 2197-2207.

Diav-Citrin O, Ratnapalan S, Grouhi M, Roifman CM, Koren G: Medication errors in paediatrics – a case report and systematic review of risk factors. *Pediatric Drugs*: March 2000: 2(3): pp 239-242.

Roifman CM, Costa T: A novel syndrome including combined immunodeficiency, autoimmunity and spondylometaphyseal dysplasia. *Journal of Allergy and Clinical Immunology*: January 2000: 5(1): pp 6-9.

research and investigations

Bayer Corporation

A randomized, double-blind, multicenter, parallel group trial comparing the safety and efficacy of IGIV Chromatography. *Roifman CM*

current year \$320,071 term 1999 – 2000

Lotte & John Hecht Memorial Fund

Development of Jak2 Tyrophostin Inhibitors for treatment of recurrent acute lymphoblastic leukemia. *Roifman CM*

current year \$50,000 term 1998 – 2001

Canadian Centres of Excellence for Genetic Disease – Genetics Program

Models of hematopoietic gene therapy. *Roifman CM*

current year \$53,455 term 1998 – 2002

Medical Research Council of Canada

Molecular mechanisms of inborn immune-deficiencies in T-cell development and signal transduction. *Roifman CM (4th*

Renewal)

current year \$120,320 term 1998 – 2003

National Institute of Health

Risk of cancer in A-T families. *Haile R, Roifman CM (US Funds)*

current year \$35,362 term 1999 – 2003

Medical Research Council of Canada

Role of protein tyrosine kinases Jak-2 in acute lymphoblastic leukemia. *Roifman CM (3rd Renewal)*

current year \$81,245 term 1996 – 1999

National Cancer Institute of Canada

Role of protein tyrosine kinases Jak-2 in acute lymphoblastic leukemia (4th renewal). *Roifman CM*

current year \$117,450 term 2000 – 2003

infectious diseases

faculty Stanley E. Read, MD, PhD., Head, Upton D.

Allen, MBBS, E. Lee Ford-Jones, MD, Susan M. King, MD, CM, Anne G. Matlow, MD

part-time Dat Tran, MD, Ian Kitai, MD **cross**

appointments William D. Biggar, MD, Marvin Gans, MD, Susan Richardson, MD,

Sharon Walmsley, MD, Lionel Weinstein, MD **clinical**

fellows Sandra Arnold, MD, Sean Ari Bitnun, MD,

Galia Grisaru-Soen, MD, David Krieser, MD, Annu

Wadhawa, MD

publications

Allen U: Infectious Disease and Immunization Committee, Canadian Paediatric Society. Paediatrics and Child Health: June 2000; 5: pp 161-164.

Allen UD: CHRIMCY: A major step in the right direction (editorial). Paediatrics & Child Health: January 2000; 5: pp 201-202.

Allen UD: Diagnosis and management of HHV-6 infection among bone marrow transplant recipients in Toronto. Canadian Communicable Diseases Report: June 2000; 2654: pp 15-17.

Allen UD: Infectious Diseases and Immunization Committee, Canadian Pediatric Society. Clostridium difficile – pathogen or pest? Pediatric Child Health: June 2000; 5: pp 349-352.

DeMatteo D, Major C, Bock B, Coates R, Fearon M, Goldberg E, King SM, Millison M, O'Shaughnessy M, Read SE: Toronto street youth and HIV/AIDS: Prevalence, demographics and risks. Journal of Adolescent Health: July 1999; 25(5): pp 358-366.

Dorman SE, Uzel G, Roesler J, Bradley JS, Bastian J, Billman G, King SM, Filie A, Schermerhorn J, Holland SM: Viral infections in interferon-gamma receptor deficiency. Journal of Pediatrics: July 1999; 135(5): pp 640-643.

Ford Jones EL, Wang E, Petric M, Corey P, Moineddin R, Fearon M for The Greater Toronto Area/Peel Region PRESI* Study Group: Hospitalization for community-acquired Rotavirus – Associated diarrhea – A prospective longitudinal population-based study during the seasonal outbreak. Archives of Pediatrics and Adolescent Medicine: January 2000; 154: pp 578-585.

Ford Jones EL, Wang E, Petric M, Corey P, Moineddin R, Fearon M for The Greater Toronto Area/Peel Region PRESI* Study Group: Rotavirus – Associated diarrhea in out-patient care settings and child care centers. Archives of Pediatrics and Adolescent Medicine: January 2000; 154: pp 586-593.

Ford-Jones EL, Kitai I, MacDonald: World TB Day, March 24, 2000 – Forging new partnerships to stop TB. Pediatric Child Health: January 2000; 5: pp 81-82.

Friedman J, Matlow A: Time to identification of positive bacterial cultures in infants under three months of age hospitalized to rule out sepsis. Pediatric Child Health: July 1999; 4: pp 331-334.

Friedman S, Shah V, Ohlsson A, Matlow AG: Neonatal Escherichia coli infections: concerns regarding resistance to current therapy. Acta Paediatr: January 2000; 89: pp 686-689.

Kellner JD, Ford-Jones EL, Members of the Toronto Child Care Centre Study Group (member): Streptococcus pneumoniae carriage in children attending 59 Canadian child care centres. Archives of Pediatrics and Adolescent Medicine: July 1999; 153: pp 495-502.

King S, Matlow AG: Control of methicillin-resistant Staphylococcus aureus in Canadian paediatric institutions is still a worthwhile goal. Paediatric Child Health: July 1999; 4: pp 337-341.

King SM: Delivery by elective caesarean section reduced vertical transmission of HIV-1(Commentary). Evidence-Based Medicine: July 1999; 4: pp 178.

King SM: Immune globulin versus combination for prevention of cytomegalovirus disease in transplant recipients. Antiviral Research: July 1999; 40: pp 115-137.

King SM: Vaccination policies: Individual rights v. community health (Editorial). British Medical Journal: July 1999; 319: pp 1448-1449.

King SM (Liaison): Control of methicillin-resistant staphylococcus aureus in Canadian pediatric institutions is still a worthwhile goal. Canadian Journal of Pediatrics: July 1999; 4(5): pp 337-341.

King SM (Liaison): Needlestick injuries in the community. Pediatric Child Health: July 1999; 4(4): pp 299-302.

King SM (Liaison): Palivizumab and respiratory syncytial virus immune globulin intravenous for the prophylaxis of respiratory syncytial virus infection in high risk infants. Pediatric Child Health: July 1999; 4(7): pp 474-480.

King SM (Liaison): Prevention and therapy of bacterial infections for children with asplenia or hyposplenia. Pediatric Child Health: July 1999; 4(6): pp 417-421.

King SM (Liaison): Prophylactic antibiotics in children. Pediatric Child Health: July 1999; 4(7): pp 490-494.

Klaassen RJ, Allen UD, Doyle JJ: Randomized placebo-controlled trial of oral antibiotics in low risk paediatric oncology patients with fever and neutropenia. Journal of Pediatric Hematology/Oncology: June 2000; 22: pp 405-411.

Matlow AG: Infection control in the office and clinic. Surgical

Infections: indexes and reviews: July 1999: 6: pp 4-5.

Matlow AG, Harrison A, Monteath A, Roach P, Balfe LW: Nosocomial transmission of tuberculosis associated with the care of an infant with peritoneal TB. *Infection Control and Hospital Epidemiology*: January 2000: 21: pp 222-223.

Matlow AG, Kitai I, Kirpalani H, Chapman NH, Corey M, Perlman M, Pencharz P, Jewell S, Phillips-Gordon C, Summerbell R, Ford-Jones EL: A randomized trial of 72 versus 24 intravenous tubing set changes in newborns receiving lipid therapy. *Infection Control and Hospital Epidemiology*: July 1999: 20: pp 487-493.

Pandya A, Wasfy S, Hebert D, Allen UD: Varicella Zoster Infection in Solid Organ Transplant Recipients. *Hospital Based Retrospective Study*: June 2000: 5: pp 1-9.

Sung L, Cutz E, Dix D, Allen U, Weitzman S, Malkin D: Epstein-Barr associated lymphoproliferative disease in a patient with rhabdomyosarcoma. *Medical and Pediatric Oncology*: May 2000: 34(5): pp 358-360.

books and chapters in books

Bitnun, Allen UD, Gold R: Bacterial Meningitis. In: *Therapeutic Choices* (Gray J, ed). Canadian Pharmaceutical Association, Ottawa: 2000: pp 699-706.

Cassol S, Read SE, Pilon R, Leung B, Mo T: Chapter 16: Methods in Molecular medicine. In: *HIV Protocols* (Michael NL, ed). Humana Press Inc, Totowa, NJ: 1999: pp 115-138.

Hui C, Ford-Jones EL: Sepsis and CNS Syndromes. In: *Handbook of Pediatric Critical Care* (Kirpilani H, ed). B.C. Decker; 2000:

Renwick R, Salter Goldie R, King SM: Children who have HIV in developmental disabilities in Ontario (Brown I, Percy M, eds). Front Porch Publishing, Toronto, ON: 1999:

research and investigations

The Research Institute, The Hospital for Sick Children (Seed Grant)

A cost analysis of paediatric HIV care in Canada: a pilot study. *Allen UD, King S, Ungar W, Read S, Stephens D, Sculpher M*

current year \$13,500 term 2000

NIH

A phase III randomized, double-blinded, study of nevirapine for

prevention of maternal-fetal transmission in pregnant HIV-infected women. ACTG 316. *Read SE, Gomez (PIs, Nassau site) (US Funds)*

current year \$60,000 term 1999 – 2000

The Research Institute, The Hospital for Sick Children (Seed Grant)

A randomized controlled trial of once daily versus three times daily tobramycin in combination with piperacillin in febrile neutropenic children undergoing bone marrow transplantation. *Doyle J, Sung L, Dupuis L, Taddio A, Bliss B, Addolletti M, Allen UD*

current year \$25,044 term 2000 – 2001

Ontario Ministry of Health via Kingston-Frontenac Health Unit

Active human surveillance for west nile virus encephalitis in Ontario. *Ford-Jones EL (reporting Naus M, LeBer C), Fearon M, Dwight P, Stirling R*

current year \$118,000 term 2000

Paediatric Consultants Research Grant

Acute disseminated encephalomyelitis: Etiologic review, neurologic and cognitive outcome. *MacGregor D, Ford-Jones EL, Hahn BC, Heurter H*

current year \$3,204 term 1999 – 2001

Research Institute, Children's Hospital of Eastern Ontario

An examination of interleukin-1 and interleukin-1 receptor antagonist levels in children with febrile neutropenia. *Samson L, Allen U, Doyle J, Klaassen R, Holton J*

current year \$10,000 term 1998 – 2000

OHTN

An HIV risk reduction intervention for incarcerated youth in Canada. *Goldberg E, Millson P, Leslie K, Read S, Rivers SE, Wormith D, Meen K*

current year \$150,000 term 1999 – 2003

Abbott Laboratories, USA

An open-label phase I/II study of ABT-378/Ritonavir in combination with reverse transcriptase inhibitors in HIV-infected children. *Allen UD (PI for Canadian site) for ABT-378 International Research Group, Read S, King S (per patient enrolled, funding in CAN \$)*

current year \$10,290 term 1999 – 2000

Abbott

An open-label phase I/II study of ABT-378/ritonavir in combination with reverse transcriptase inhibitors in HIV-infected children. *Gomez, Read SE, McNeil (co-PIs, Nassau site) (US Funds)*

current year \$60,000 term 1999 – 2000

Pfizer

Analysis of network hospital antibiotic resistance at myringotomy (ARM) study in children – an ENT-ID initiative. *Friedberg J, Ford-Jones EL, McGeer A, Coyte P*

current year \$19,000 term 2000

ABBOTT Laboratories, Canada

Clinical trial of Ritonavir-containing combination antiretroviral therapy in HIV-infected Canadian children with high HIV-1 RNA levels. *Allen UD, King S, Cassol S, Conway B, Forbes J, Lapointe N, Read S, Members of the Canadian Paediatric AIDS Research group*

current year \$21,667 term 1998 – 2000

Hoffmann-LaRoche Pharmaceuticals

Community surveillance for antibiotic resistant bacteria (day cares, family day care homes; now Jamaica). *Kellner J, Ford-Jones EL, Allen U*

current year \$20,000 term 1996 – 2000

Exergen-Phillips

Comparison of the temporal artery, aural and rectal thermometry in children in the emergency department. *Schub S, Allen UD, Komar L, Read S, Stephens D*

current year \$77,000 term 1999 – 2000

Hoffmann Laroche

Epidemiology of bacterial colonization of neonates. Matlow AG, Whyte H

current year \$20,000 term 1999 – 2000

Ontario HIV Treatment Network (OHTN)

Evaluating safety and risk of anti-retroviral drug exposure during pregnancy for infants born to HIV positive women in Ontario. King SM, Koren G

current year \$175,000 term 1999 – 2002

Glaxo-Wellcome & Biochem-Pharma

Evaluating the safety and risk of anti-retroviral drug exposure during pregnancy for infants born to HIV positive women in Ontario. King SM, Koren G

current year \$100,000 term 1999 – 2002

St. Joseph's Congenital and Perinatal Infections at Delivery (St. Joseph's CAPIad Study), Bureau of Reproductive Health, LCDC

Evaluation of infectious diseases in a culturally diverse population of pregnant immigrant and refugee women and their infants. Ford-Jones EL, Kelly E, MIRU (Hannab M), Wilke E, Wahoush O, Krejden S, Read S, Mazzulli A, Keystone J, Yuan L, Fearon M

current year \$89,626 term 1998 – 2000

Ontario MOH

HIV viral load. Read SE

current year \$60,000 term 1997 – 2000

Health Canada (administered by Canadian Paediatric Society)

IMPACT (Immunizing Monitoring Program Active). Scheifele D, Halperin S, Ford-Jones EL (local investigator for HSC)

current year \$37,973 term 2000 – 2001

Abbott Canada

Implementation and evaluation of RSV prophylaxis in infants in

Toronto. Allen UD (project leader), Maclusky I, O'Brien K, Simmons B, Newman C, and the RSV Task Force

current year \$36,000 term 1999 – 2000

Positive Action Fund

Maternal-child leukocyte antigen discordance and perinatal HIV-1 transmission in non-breast fed infants. MacDonald KS, King SM

current year \$274,500 term 1999 – 2001

Positive Action Fund

Metabolic abnormalities associated with protease inhibitors in HIV infected children. King SM (Supervisor of PI), Bitnun A, Sockett E

current year \$66,381 term 1999 – 2001

Pfizer

Network hospital antibiotic resistance at myringotomy (ARM) study in children- an ENT-ID Initiative. Friedberg J, Ford-Jones EL, McGeer A, Coyte P, Jamieson F, Wang E, Allen U, Al-zaharani M, Matlow A, Yaffe B

current year \$20,000 term 1999 – 2000

Abbott Laboratories Limited

Network hospital antibiotic resistance at myringotomy (ARM) study in children- an ENT-ID Initiative. Friedberg J, Ford-Jones EL

current year \$20,000 term 1998 – 2000

Pfizer

Open randomized comparative multicenter study of the efficacy, safety and toleration of voriconazole versus amphotericin B followed by other licensed antifungal therapy in the treatment of acute invasive aspergillosis in immunocompromised patients.

current year \$36,250 per 5 subjects enrolled)

current year \$2,781 term 1997 – 2000

NHRDP, AIDS Prevention and Community Action Program, Health Canada, Glaxo Wellcome Positive Action Fund

Polaris HIV Seroconversion Study. Calzavara (PI), Major C, Myers T, Rachlis A, Read S, Cassol S, Millsom P, Logue K, Wallace E, Remis R, McGee F, Corey C, Gough K, Graydon M, Tharao E, Trow R, Crossman C

current year \$495,290 term 1998 – 2001

The Hospital for Sick Children

Post-transplant lymphoproliferative disease: a randomized trial of ganciclovir prophylaxis among solid organ transplant recipient. Humar A, Allen UD, Hebert D

current year \$64,587 term 2000 – 2002

The Physician's Services Incorporated Foundation

Retrospective study to characterize the effects of anti-retroviral therapy on infants born to HIV infected mothers. King SM (Supervisor of PI), Arnold S, Degani N

current year \$12,300 term 1999 – 2000

Merck Frosst Canada

Safety, tolerability and immunogenicity of live attenuated Oka/Merck Varicella vaccine in patients undergoing solid organ transplantation. Allen UD, Ward B, Robinson J, Raymond D, Law B, Moore D, and Canadian site investigators (plus laboratory services)

current year \$35,000 term 1999 – 2002

Hospital for Sick Children Foundation

The Epstein-Barr virus and B-cell lymphoproliferative disease in paediatric transplant patients. Alfieri C, Allen UD, Tellier R, Petric M, Tanner J

current year \$64,895 term 1999 – 2000

neonatology

faculty Keith Tanswell, MD, **head**; Jonathan Hellmann, MD; Andrew James, MD; Aideen Moore, MD; Christine Newman, MD; Borianna Parvez, MD; Max Perlman, MD; Hilary Whyte, MD **scientific faculty** Martin Post, DVM, PhD

part-time Rosemary Moodie, MD **associate medical faculty** Elizabeth Asztalos, MD; Michael Dunn, MD; Ann Jefferies, MD; Edmond Kelly, MD; Karel O'Brien, MD; Arne Ohlsson, MD; Andrew Shennan, MD; Brian Simmons, MD; Martin Skidmore, MD; Sharon Unger, MD; Kin Fan Young Tai, MD **clinical fellows** Anwar Asady, MD (Peshawar University, Pakistan), Catherine Taylor, MD (University of Toronto), Ethel Ying, MD (University of Toronto), Federico Zaglia, MD (Padua University, Italy), Geraldine Ng, MD (England), Naeem Parvez, MD (Dow University, Pakistan), Nilesh Senthe, MD (Bharathiar University, India), Sumesh Thomas, MD (UK), Cherrie Tan-Dy, MD (Boston University, US),

Jae Kim, MD (University of Toronto), Nancy Radakovic, MD (McMaster University), Preeti Jain, MD (Rajasthan University, India), Yenge Diambomba, MD (Laval University), Prakeshkumar Shah, MD (SMT.N.H.L. Muni Medical School, India), Ranjit Kylat, MD (Stanely University, India), Shaheen Doctor, MD (McMaster University), Eugene Ng, MD (University of Toronto), Frank Bloomfield, MD (UK), Manoj Malviya, MD (Government Medical College, India), Abhay Lodha, MD (University of Melbourne, Australia) **research trainees** Yuan Shizeng, MD, PhD (University of Toronto), Robert Jankov, MD (University of Toronto), Ian Copeland, MSc (University of Toronto), Albert Kabore, PhD (University of Toronto), Nicholas Cartel, MSc (University of Toronto), Veronica Del Riccio, BSc (University of Toronto), Sharadindu Rai, BSc (University of Toronto), Sujitha Ratnasingham, BSc (University of Toronto), Ross Ridsdale, MSc

(University of Toronto), Philipp Maehl, MD (Humboldt-University of Berlin, Germany), Minke van Tuyl, MD (Erasmus University, The Netherlands)

publications

- Buch S, Han RNN, Cabacungan J, Wang J, Yuan S, Belcastro R, Deimling J, Luo X, Lye SJ, Post M, Tanswell AK: Changes in expression of platelet-derived growth factor and its receptors in the lung of newborn rats exposed to air or 60% O₂. *Pediatric Research*: January 2000: 48: pp 423-433.
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Luo X, Sedlackova L, Belcastro R, Cabacungan J, Lye SJ, Tanswell AK: Effect of the 21-aminosteroid U74389G on oxygen-induced free radical production, lipid peroxidation and inhibition of lung growth in neonatal rats. *Pediatric Research*: July 1999: 46: pp 215-223.

Nakamura T, Liu ML, Mourgeon E, Slutsky AF, Post M: Mechanical strain and dexamethasone selectively increase surfactant protein C and tropoelastin expression. *American Journal of Physiology*: June 2000: 278: pp L974-L980.

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books and chapters in books

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Rafii B, Tanswell AK, Pitkanen O, O’Brodivich H: Induction of epithelium sodium channel (ENaC) expression and sodium transport in distal lung epithelia by oxygen. In: Amiloride-Sensitive Na⁺ Channels: Physiology & Functional Diversity. Current Topics in Membranes (Benos DJ, ed). Academic Press, New York: 1999: pp 47:239-254.

Tanswell AK, Buch S, Liu M, Post M: Factors mediating cell growth in lung injury. In: Chronic Lung Disease of Early Infancy (Bland RD, Coalson J., eds). Dekker, New York: 1999: pp 493-534.

research and investigations

Sanderson Endowment Fund

A Purchase of Soluble Growth Factor Receptors. *Tanswell AK*

current year \$3,000 term 2000

Canadian Institutes of Health Research, Grant #MGC-25029 Core. *Tanswell AK*

current year \$250,935 term 1999 – 2004

INO Therapeutics Inc

Early inhaled nitric oxide in the near mature and mature newborn with severe hypoxemic respiratory failure

current year \$1,500/patient. James AG (HSC site).

current year \$1,500 term 1998 – 2000

Society for Academic Continuing Education – Fellowship Training in Research in Continuing Education – Research Fellowship

Ethical dilemmas in clinical practice: Can continuing education programs play a role? (*US Funds*). *Hellman J*

current year \$4,500 term 1999 – 2000

The Hospital for Sick Children Seed Grant

Inflammatory mediated damage to fetal bowel in gastroschisis. *Moore A*

current year \$11,340 term 1999 – 2001

PSI Funding for Gastroschisis Project

Inflammatory mediated damage to fetal bowel in gastroschisis. *Moore A*

current year \$90,000 term 1999 – 2000

HSC Research Institute (Seed Funding Competition)

Maternal smoking and hypoxic ischemic encephalopathy (HIE). *James AG, Perlman M, Koren G*

current year \$16,480 term 1998 – 2000

Canadian Institutes of Health Research, Grant #MGP-15276

Mechanisms and mediators of pulmonary oxygen toxicity. *Tanswell AK*

current year \$82,422 term 1999 – 2004

Canadian Institutes of Health Research

Molecular regulation of pulmonary phosphatidylcholine synthesis. *Post M*

current year \$98,337 term 1999 – 2004

Intermedico

Multicentre IL-8 trial. *Moore A*

current year \$22,470 term 1999 – 2000

Canadian Institutes of Health Research, Grant #MOP-37981

Regulation of normal and oxygen-mediated aberrant postnatal lung growth. *Tanswell AK, Hu J*

current year \$133,281 term 2000 – 2005

Canadian Institutes of Health Research

Role of epithelial-mesenchymal interactions in lung development. *Post M*

current year \$150,796 term 1999 – 2004

Canadian Institutes of Health Research

Role of mechanical forces on lung growth and differentiation.

Post M

current year \$104,012 term 1999 – 2004

Canadian Cystic Fibrosis Foundation

SPARX II: Gene-based therapy for cystic fibrosis lung disease.

O'Brodovich H (Director), Tanswell AK (Assoc. Director), Bear C, Coates G, Corey M, Dolovich M, Durie P, Hu J, Lukacs G, Sweezey N, Tsui LC, Tullis E

current year \$60,108 term 1996 – 2001

The Hospital for Sick Children Seed Grant

The protective effects of breastmilk in the very low birth weight infant. *Moore A*

current year \$9,250 term 1999 – 2001

Medical Research Council of Canada

Two year outcomes of infants and mother enrolled in the term breech trial. *Whyte HE, Hannah M, Saigal S, Hodnett ED, Roger A, Hannah WJ, et al*

current year \$46,175 term 1999 – 2004

Associated Medical Services Inc

Withdrawal of Life Sustaining Medical Technology in the Neonatal Intensive Care Unit: Factors Affecting Physician Practice. *Hellmann J, Jacobs S, O'Brien K, McAllister M, Harrison C.*

current year \$15,000 term 1999 – 2000

nephrology

faculty Denis F. Geary MB MRCP(UK), FRCP(C), **head**, Gerald S. Arbus MD FRCP(C), J. Williamson Balfe, MD FRCP(C), E. Harvey MD FRCP(C), D. Hébert MD FRCP(C), Norman Rosenblum MD FRCP(C) **part-time faculty** Leo Levin MD FRCP(C) **clinical fellows** Rajendra Bhimma (to Dec. 31, 1999 – University of Natal, 1988), Rhona Capisonda (from Jan 1, 2000 – Manila Central University, 1989), Sanjeev Gulati (University of Delhi, 1985), Eleonora Hansch (University of Manitoba, 1996), Henry Morgan (University of Birmingham, 1993), Veronique Phan (McGill University, Montreal 1994) **research fellows** Silviu Grisaru (Technion Institute, Israel 1991), Tino Piscione (Queen's University, Kingston 1991)

publications

- Gupta IR, Macias-Silva M, Kim S, Zhou X, Piscione TD, Whiteside C, Wrana JL, Rosenblum ND: HGF rescues BMP-2 mediated inhibition of renal collecting duct morphogenesis without interrupting Smad 1 dependent signaling. *J Cell Science*: January 2000: 113: pp 269-278.
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- van der Voort JH, Harvey EA, Braj B, Geary DF: Can the DOQI guidelines be met by peritoneal dialysis alone in pediatric patients? *Pediatric Nephrology*: January 2000: 14: pp 717-19.

books and chapters in books

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research and investigations

- Medical Research Council of Canada
Control of Renal Branching Morphogenesis: Cellular Events and Molecular Mechanisms. *Rosenblum ND*
current year \$60,733 term 1997 – 2000
- Kidney Foundation of Canada
Control of Renal Collecting System Morphogenesis by Glypican-3. *Rosenblum ND*
current year \$40,000 term 1999 – 2001
- Merck
Immunogenicity and persistence of antibody levels following varivax in children with nephrotic syndrome. *Arbus GS (Co-Investigator)*
current year \$5,000 term 1998 – 2001
- Ronald McDonald House
Molecular determinants in children with diarrhea positive Hemolytic-Uremic Syndrome. *Arbus GS*
current year \$3,000 term 1998 – 2000
- Pfizer
PATH-1 (Pediatric Use of Amlodipine in the Treatment of Hypertension-1) A randomized, double-blind placebo-controlled, parallel group dose-ranging study to evaluate the efficacy and safety of amlodipine in the treatment of hypertension in children. *Arbus GS*
current year \$200,000 term 2000 – 2001
- The Hospital for Sick Children Seed Grant
Randomized trial of antibiotic prophylaxis in children with vesico-ureteric reflux. *Geary DF*
current year \$11,500 term 1999 – 2001

Pfizer

The Pediatric Use of Amlodipine in the Treatment of Hypertension. A population pharmacokinetic trial (PATH-2).

Arbus GS

current year \$100,000

term 2000 – 2001

Janssen

To assess the benefit of concomitant therapy of Prednisone with Levamisole for the initial episode of Idiopathic Nephrotic Syndrome. *Arbus GS*

Arbus GS

current year \$6,000

term 1999 – 2001

neurology

faculty O. Carter Snead, MD, FRCP(C) –head, Brenda Banwell, MD, FRCP(C), Gabrielle deVeber, MD, FRCP(C), Robert H.A. Haslam, MD, FRCP(C), William Logan, MD, FRCP(C), Maureen Lovett, PhD, Daune L. MacGregor, MD, FRCP(C), Berge Minassian, MD, FRCP(C), Hiroshi Otsubo, MD, Sheila W. Roberts, MD, FRCP(C), Jay Rosenfield, MD, FRCP(C), Ingrid Tein, MD, FRCP(C), Jiri Vajsar, MD, FRCP(C), Shelly Weiss, MD, FRCP(C)

part time David Berbrayer, MD, FRCP(C) (Honourary), Pam Cooper, MD, FRCP(C), Rosalind Curtis, MD, FRCP(C), Darcy Fehlings, MD, FRCP(C), Cynthia Goldfarb, MD, FRCP(C), SML Kirkpatrick, MD, FRCP(C), Jeffrey Kobayashi, MD, FRCP(C), John Lovering, MD, FRCP(C), Douglas McGreal, MD (Honourary), Gilbert Miller, MD, FRCP(C), Golda Milo-Manson, MD, FRCP(C), Gordon Murphy, MD, FRCP(C) , Honourary), Joyce Nesker Simmons, PhD, Peter Rumney, MD, FRCP(C), Diann Superina, MD, FRCP(C) (Honourary), Jentien

Vermaat, MD, FRCP(C) (Honourary), Fred Weinberg, MD, FRCP(C) (Honourary) **clinical fellows** Abdullah Al-Rasheed, MD, King Saud University, Abdulaziz Al-Ruwaishid, MD, King Saud University, Mubeen Fatima, MBBS, University of Sind, Meredith Golomb, MD, Harvard University, Sylvain Lanthier, MD, University of Montreal, Mark Mackay, MBBS, Monash University, Adel Mahmoud, MD, Cairo University, Shahid Parvez, MB, Sofia Medical Academy, Deborah Renaud, MD, University of Western Ontario, Michael Salman, MBBS, Royal Free Hospital School of Medicine, Ngai-Chuen Sin, MBBS, University of Hong Kong **developmental fellows** Sherri Baine, MD, McMaster University, Janine Flanagan, MD, University of Toronto, Karen Harman, MD, McMaster University, Tamarah Kagan-Kushnir, MD, University of Toronto, Tara Kennedy, MD, University of Western Ontario, **residents** Elizabeth Donner, MD, McMaster University, Cecil Hahn, MD, University of

Toronto, Hanna Kolski, MD, University of Alberta, Jonathan Ponesse, MD, Queen’s University

publications

- Auranen M, Villanova M, Muntoni F, Fardeau M, Scherer SW, Kalimo H, Minassian BA: X-linked vacuolar myopathies: Two distinct loci and refined genetic mapping. *Annals of Neurology*: June 2000: 47: pp 666-669.
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- Hu RQ, Banerjee PK, Snead OC: Regulation of presynaptic g-amino butyric acid (GABA) and glutamate release mediated by the GABAB/g-hydroxybutyric acid (GHB) receptor complex in rat cerebral cortex in the GHB model of absence seizures in rat. *Neuropharmacology*: January 2000: 39: pp 427-439.
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books and chapters in books

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- deVeber G: *Cerebrovascular Diseases*. In: *Pediatric Neurology: Principles and Practice*, Third Edition (Swaiman KF, Ashwal S, eds). Mosby, Philadelphia, PA: 1999:
- Lalande M, Minassian BA, DeLorey TM, Olsen RW: Imprinting and angelman syndrome. In: *Advanced Neurology* 1999: pp 79:421-429.

- Otsubo H, Ochi A, Chuang SH, Rutka JT, Snead OC III: MEG application for pediatric epilepsy and epileptic syndrome. In: *Recent Advances in Biomagnetism* (Yoshimoto T, Kotani M, Kuriki S, Karibe H, Nakasato N, eds). Tohoku University Press, Sendai: 1999: pp 762-765.
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- Tein I: Primary carnitine transporter defect. In: *Neurobase*, 5th Edition (Gilman N, Goldstein GW, Waxman SG, eds). Arbor Publishing Corp, La Jolla, CA: 2000: pp 1-2.

research and investigations

- Astra-Zeneca Pharmaceuticals, Inc.
A multicenter, double-blind, placebo-controlled, randomized trial and an open-label long-term tolerability trial of zolmitriptan (ZOMIGTM) for the acute treatment of migraine headaches in adolescent subjects. *MacGregor DL (Co-Principal Investigator)*
current year \$28,000 1999 – 2000
- Muscular Dystrophy Association in US
A randomized double-blind trial of creatine monohydrate in patients with muscular dystrophy (DMD/BMD and DM). *Vajsar J (Principal Co-investigator – HSC site) (US Funds)*
current year \$138,000 term 2000 – 2002
- The Hospital for Sick Children, Paediatric Consultants Grant
ACTH vs Vigabatrin for infantile spasms. *Snead OC*
current year \$5,000 term 1998 – 1999
- Paediatric Consultants

Acute disseminated encephalomyelitis: Etiological review, neurologic and cognitive outcome. *MacGregor DL*
 current year \$1,602 term 1999 – 2000

CIHR
 Atypical Absence Epilepsy: GABABR-mediated mechanisms. *Snead OC, Cortez M, Francis E*
 current year \$118,000 term 2000 – 2003

Hospital for Sick Children, Paediatric Research Grant
 Auditory event-related potentials in normal children and children with acquired receptive language disorders and Autism. *Logan WJ, Pang EW, Martien KM, Snead III OC*
 current year \$5,000 term 1999 – 2000

Medical Research Council
 Autism and moebius syndrome. *Bryson S, Roberts W (Investigator)*
 current year \$54,745 term 1999 – 2001

Paediatric Consultants
 Behavioural treatment trial for children with ADHD and sleep disorders. *Weiss S, Corkum P, Stephens D*
 current year \$4,025 term 1999 – 2000

Bloorview Children's Hospital Foundation
 Canadian pediatric ischemic stroke registry and outcome project. *deVeber G, MacGregor DL (Co-Investigator)*
 current year \$208,000 term 1998 – 2001

Hospital for Sick Children Pediatric Consultants Grant
 Central nervous system recovery following pediatric ischemic stroke evaluated by functional MRI. *deVeber G*
 current year \$5,000 term 1999 – 2000

Grotto Cerebral Palsy Foundation
 Cerebral palsy research. *Logan WJ*
 current year \$15,000 term 1996 – 2000

Canadian Cancer Society
 Development of Communications Skills Teaching for Faculty to Clerks and Residents. *Rosenfield J (EFPO site coordinator at Toronto)*
 current year \$20,000 term 1998 – 2001

Paediatric Consultants
 Educating paediatric residents: A framework for cross-cultural communication. *Lingard L, Rosenfield J, Tallett S*
 current year \$4,958 term 1999 – 2000

Bloorview
 Epilepsy Research Program. *Snead OC, Burnham M*
 current year \$140,000 term 1997 – 2001

Don and Linda Carter Foundation
 Evaluation of function in Holoprosencephaly (US Funds). *Logan WJ*
 current year \$6,091 term 1999 – 2000

Hospital for Sick Children, Paediatric Consultants Research Grant
 Functional MRI Studies of Central Nervous System Recovery Following Paediatric Ischemic Stroke. *Logan WJ, Golomb M, deVeber G, Graveline C, Mikulis D, Laughlin S*
 current year \$5,000 term 1999 – 2000

Medical Research Council of Canada
 g-Hydroxybutyrate: Second messenger mechanisms. *Snead OC*
 current year \$80,000 term 1997 – 2000

Medical Research Council of Canada
 Genetics of reading disabilities. *Barr C, Humphries T, Lovett MW, Young A, Tannock R, Beitchman J, Macciardi F*
 current year \$575,320 term 1999 – 2002

National Institute for Health (NIH), Washington DC
 Genotype and phenotype of brainstem injury in autism (US Funds). *Rodier PM, Figlewicz DA, Hyman S, Bryson S, Miller M,*

Stanton M, Gudas L, Consultants: Roberts W, Buncic R
 current year \$123,810 term 1998 – 2003

National Health Research and Development Program (NHRDP)
 Health, social and environmental determinants for developmental attainment in young children in Canada. *To T, Dick P, Parkin P, Rosenfeld J, Guttman A*
 current year \$50,600 term 1999 – 2000

National Institute of Health IT01HD35946-01
 Hydrocephalus: MRI morphometric and cognitive correlations (US Funds). *Dennis M, MacGregor DL (Co-Investigator)*
 current year \$226,228 term 1998 – 2003

Medical Research Council
 Investigation of genetic factors in attention deficit hyperactivity disorder. *Barr C, Schachar R, Roberts W, Malone M, Tannock R, Kennedy J (Co-Investigators)*
 current year \$118,419 term 1997 – 2002

The Hunter Foundation
 Medical education in child development. *Roberts W*
 current year \$40,000 term 1999 – 2001

Medical Research Council of Canada
 mGluR4-mediated mechanisms of absence seizures. *Snead OC, Hampson D*
 current year \$80,000 term 1999 – 2002

Dairy Farmers of Canada
 Milk fat in the ketogenic diet. *Snead OC, Cunnane S*
 current year \$30,000 term 1999 – 2000

Heart and Stroke Foundation of Canada
 Molecular characterization of the plasmalemmal carnitine transporter. *Tein I*
 current year \$68,937 term 1998 – 2001

NIH

Murine knockout of 4-hydroxybutyrate aid. *Snead OC, Gibson M (US Funds)*

current year \$504,000 term 2000 – 2004

Sigma-Tau Pharmaceuticals Inc. Grant

Neonatal Carnitine Screening Project – Multicentre collaboration (Columbia University, New York, NY; Children's Hospital of Pittsburgh and Neo Gen Screening, Inc., Pittsburgh, PA; University of Toronto, Toronto, ON.; Yale University School of Medicine, New Haven, CT). *De Vivo DC, Tein I*

current year \$675,000 term 1996 – 2001

NINDS Grant 2R01NS 21889-16

Neurobehavioural outcome of head injury in children – Subcontract \$279,021(US Funds). *Dennis M, MacGregor DL (Co-Investigator)*

current year \$864,481 term 1998 – 2004

Neurometabolic Research Fund

Neurometabolic Research. *Tein I*

current year \$5,000 term 1991 – 2000

Heart and Stroke Foundation

Predictors of neurodevelopmental outcome after neonatal cardiopulmonary bypass. *Kelly E, MacGregor DL (Co-Investigator)*

current year \$70,159 term 1998 – 2000

Government of Ontario

Research on current definitions, standards of assessment, programming and teacher education as related to early identification of learning disabilities. *Rosenfield J (Co-Chair of Provincial Task Force/Steering Committee)*

current year \$500,000 term 1999 – 2001

Bloorview Children's Hospital Foundation

The Bloorview children's stroke project: Canadian pediatric ischemic stroke registry and outcome projects. *deVeber G*

current year \$208,000 term 1998 – 2001

Medical Research Council of Canada

The treatment of comorbid ADHD and RD: A randomized controlled trial of stimulant medication and reading remediation. *Tannock R, Lovett MW, Benson NJ, Ickowicz A*

current year \$465,000 term 1996 – 2001

LEO Laboratories

Tinzaparine: Dose finding study of low molecular weight heparin in children with thromboembolism. *deVeber G*

current year \$250,000 term 1999 – 2000

Ontario Mental Health Foundation

Treating the core phonological deficits of developmental dyslexia: A controlled evaluation of auditory and articulatory phonological training methods. *Lovett MW, Barron RW*

current year \$130,322 term 1997 – 2000

National Institutes of Health, National Institute of Child Health and Human Development

Treatment of developmental reading disabilities. *Morris R, Lovett MW, Wolf M (US Funds)*

current year \$3,055,740 term 1996 – 2001

Research Institute, Hospital for Sick Children, Seed Grant 2000

Use of Creatine Monohydrate in the treatment of Duchenne Muscular Dystrophy. *Vajsar J*

current year \$26,475 term 2000 – 2002

paediatric medicine

faculty Patricia C Parkin, MD, **head**, Tara T. Baron, MD, Stacey E Bernstein, MD, Victoria J. Davis, MD, Paul T Dick, MDCM, Jeremy N Friedman, MBChB, Beth Gamulka, MDCM, Marvin H Gans, MD, Alan Goldbloom, MDCM, Saul Greenberg, MD, Robert I Hilliard, MD, Dirk W Huyer, MD, Moshe M Ipp, MBBCh, Sheila J Jacobson, MBBCh, Bernice R Krafchik, MBChB, Sanjay Mahant, MD, Marcellina Mian, MDCM, Michael Peer, MD, Marina Salvadori, MD, Norman R Saunders, MD, Michelle K. M. Shouldice, MD, Susan E Tallett, MBBS, Teresa To, PhD, Michael Weinstein, MD, Nancy L Young, PhD **part-time** Lisa Allen, MD, Crawford Anglin, MD, Tony Barozzino, MD, Glenn Berall, MD, Alan Berzen, MBBCh, Lionel Boxall, MBBS, Michael Braudo, MBChB, Nicolette Caccia, MD, Bonnie Cameron, MD, Andrew Chlebus, MD, Carlos Contreras, MD, Susan Coombs, MD, William Davidson, MD, Till Davy, MD, Gordon Donsky, MD, Michael Dorey, MD,

Katy Driver, MBBS, Andrew Duic, MD, Anthony Duke, MD, Thomas Egan, MD, Robert Farber, MD, Michelle Farine, MD, Hyder Fazal, MD, Darcy Fehlings, MD, Mark Feldman, MD, William Feldman, MDCM, Leona Fishman, MD, Adelaide Fleming, MD, Ralph Folman, MD, John Freedman, MD, Lee Ann Gallant, MD, Hartley Garfield, MD, Colin Geft, MBChB, Rose Geist, MD, Sabine George, MD, Milton Gold, MD, Morton Goldbach, MD, Leslie Goodis, MD, Stuart Gordner, MD, Manuel Greenberg, MD, Katerina Haka-Ikse, MD, Richard Hamat, MD, William Hanley, MD, William Hawke, MD, James Hilton, MD, Anthony Hui, MD, Nicole Inch, MD, Jaya Islur, MBBS, Walter James, MD, Anna Jarvis, MBBS, Ross Johnson, MD, Shahida Khan, MBBS, Ian Kitai, MD, Luba Komar, MD, Beverley Kupfert, MD, Howard Langer, MD, Bernard, Laski, MD, Bernard Laytner, MD, Cinda Lee, MD, John Lee, MD, Eun Lee-Hong, MD, Michael Lester, MD, Leo Levin, MD,

Peter Lewin, CDMD, Patricia Linders, MD, Martin Lindzon, MD, John Lovering, MD, Mary MacDonald, MD, Gerard MacGillivray, MD, David Maresky, MBChB, Aubrey Maze, MBChB, Gilbert Miller, MD, Janette Milne, MD, Golda Milo-Manson, MD, William Mounstephen, MD, Paul Munk, MD, Joan Murphy, MD, John D. Murray, MD, Jack Newman, MD, Raymond Ng, MD, Eleazar Noriega, MD, Ricardo Olivares, MD, Larry Pancer, MD, Evangelia Papadouris, MBChB, Jocelyne Parent, MD, Joseph Porepa, MD, Percy Rajchgot, MD, Colin Ramsay, MD, Anne Richards, MBBS, Knox Ritchie, MBBCh, Wendy Roberts, MD, Jay Rosenfield, MD, Antonina Saksznajder, MD, Susan Schneeweiss, MD, Suzana Schuh, MD, Clive Schwartz, MBChB, Michael Sgro, MD, Chandrakant Shah, MD, David Shawn, MD, Pryma Skowron, MD, Elspeth Sladen, MBBS, Janet Star, MD, Donald Stewart, MD, Peter Strachan, MD, Heshy Sturm, MD, Robert Sutton, MBBS, Joseph Telch, MD,

Lionel Weinstein, MD, Jeff Weisbrot, MD, Sheldon

Wise, MD, Martin Wolfish, MD, Brenda Woods, MD

clinical fellows Ibrahim Al-Jalsi, MD (King Abdulaziz

University, Jeddah, Saudi Arabia), Astrid Guttmann,

MDCM (McGill University, Montreal, Canada)

publications

Arnet FC, Tan FK, Uziel Y, Krafchik BR, Laxer RM, Antohi S, Bona C: Autoantibodies to the extra-cellular matrix microfibrillar protein, fibrillin-1, in patients with localized scleroderma. *Journal of Arthritis and*

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Hilliard RI: Ethical Issues in Medical Education: Teaching and Learning. *Annals of the Royal College of Physicians and Surgeons of Canada*: July 1999: 32 (supp): pp 142-147.

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Ipp M: Otitis Media. In: *Evidence Based Pediatrics* (Feldman W, ed). B.C. Decker, Hamilton, Ontario: 2000: pp 103-121.

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research and investigations

Canadian Dermatology Foundation

A multi-centre study, across Canada – A prospective study on the age of onset, incidence, geographic distribution and risk factors associated with atopic dermatitis (Additional funding awarded 1998). *Krafchik BR*

current year \$35,000 term 1996 – 2000

Fujisawa GmbH

A Pan-European/Canadian, randomized, double-blind, comparative study to evaluate the efficacy and safety of 0.03% Tacrolimus (FK506) ointment, 0.1% Tacrolimus (FK506) ointment and 1% Hydrocortisone acetate ointment in children with moderate to severe atopic dermatitis. *Krafchik BR*

current year \$24,347 term 1998 – 2000

Institute for Clinical Evaluative Sciences

Ability vs. disability in children with musculoskeletal disease: Rescaling the childhood health assessment questionnaire. *Feldman B, Young NL (Co-Investigator)*

current year \$4,448 term 2000 – 2001

Fujisawa Canada Inc

An open-label, long-term, follow-up study to evaluate the safety of topically applied Tacrolimus ointment for the treatment of atopic dermatitis in pediatric patients. *Krafchik BR*.

current year \$8,250 term 1999 – 2000

Hospital for Sick Children Research Institute Seed Grant

Angiogenesis (bFGF, VEGF) and RAS activation in neurofibromatosis type 1 associated plexiform neurofibroma. *Baruchel S, Parkin P, Gesundheit B, Becker L, Guba A*

current year \$17,925 term 2000 – 2002

The Hospital for Sick Children, Pediatric Consultants Research Grant

Antidendomyosium antibodies as markers for Coeliac Disease in children with Recurrent Abdominal Pain. *Ipp M, Parkin P, Fitzpatrick K, Macarthur C, Sherman P, Saunders N*

current year \$5,000 term 1998 – 1999

The Physicians Services Incorporated Foundation

Canadian Paediatric Resident Survey. *Vohra S, Tallett S, Hilliard RI*

current year \$14,200 term 1998 – 1999

Hospital for Sick Children Foundation

Care of children with asthma discharged from the Emergency Department: Is a comprehensive home care program beneficial? *Cicutto L, Spalding K, Booth M, Daub S, Lacroix H, Reisman J, Mounstephen, Parkin P, Breakwell M, Williams M*

current year \$62,795 term 1999 – 2001

Research Institute and Department of Paediatrics, Hospital for Sick Children

Career advisors for young scientists and clinician scientists: Investigating perceptions and understanding problems. *Lingard L (PI), Sherman P, Lipshitz H*

current year \$20,877 term 1999 – 2000

The Hospital for Sick Children Seed Grant Competition

Characterizing episodes of home care for children. *Dick PT*

current year \$31,500 term 2000 – 2001

Ontario Neurotrauma Foundation

Crash Protection for Children. *Howard A, Wright J, Parkin P, Letts R, Mackay M, German A*

current year \$77,690 term 2000 – 2003

Social Sciences and Humanities Research Council of Canada

Creating the healthcare professional: The role of situated language practices in clinical education settings. *Schryer C, Lingard L (Co-PI), Spafford M, Boyd M, Laurence M*

current year \$60,000 term 1999 – 2000

Paediatric Consultants' Seed Grant

Defining the genetic basis of atopic dermatitis based on a reliable phenotype. *Krafchik BR*

current year \$4,000 term 1998 – 2000

The Hospital for Sick Children, Paediatric Consultants Research Grant

Delayed antibiotic treatment for otitis media. *Wang E, Ipp, M*

current year \$5,000 term 1998 – 1999

Institute for Clinical Evaluative Sciences

Describing the health status of Canadian children: Exploring the Health Utilities Index Mark III (Measurement). *Young NL, To T (Co-Investigator)*

current year \$14,000 term 2000 – 2001

The Hospital for Sick Children Seed Grant and PSI Grant

Development of a dehydration score for use in children 1 to 24 months in the emergency room and hospital settings. *Friedman J, Parkin*

current year \$18,800 term 1999 – 2000

Physician Services Inc.

Development of a dehydration score for use in children under 2 years of age. *Friedman J, Parkin P*

current year \$13,700 term 2000 – 2001

The Hospital for Sick Children, Pediatric Consultants Research Grant

Educating pediatric residents: A framework for cross-cultural communication. *Lingard L (co-PI), Rosenfield J, Tallett S*

current year \$5,000 term 1999 – 2000

Institute for Clinical Evaluative Sciences

Effectiveness of the acute asthma pathway in reducing practice variations and improving patient outcomes – Phase I (focus group). *To T, Reisman J, Parkin P, Ungar W, Cadarette S*

current year \$17,549 term 1999

MRC- PMAC Grant

Efficacy of oral dexamethasone in the emergency therapy of acute bronchiolitis. *Schub S, Dick PT*

current year \$31,106 term 1997 – 2001

Paediatric Consultants Research Grants

Efficacy of salbutamol administered to hospitalized children via a vented versus an unvented jet nebulizer: a pilot study. *Parkin P, Coates A, Dell S, Schub S*

current year \$5,000 term 1999 – 2001

The Hospital for Sick Children Foundation

Endowment fund from donor's estate – Epidermolysis bullosa fund for research and treatment of patients with epidermolysis bullosa. *Krafchik BR*

current year \$2,491 term 1994 – 2000

Medical Council of Canada

Evaluating professionalism through the examination of behaviours. *Ginsburg S, Hatala R, Lingard L (Co-Inv), Regehr G, Stern D*

current year \$20,000 term 1999 – 2000

GH Wood Foundation

G H Wood Telehealth Program. *Dick PT, Filler R*

current year \$50,000 term 1996 – 2001

Geoffrey H. Wood Foundation

GH Wood Telemedicine Evaluation. *Filler R, Dick P, Macarthur C, Tallett S, Schippke S, Cooper J*

current year \$62,500 term 1996 – 2000

Health Canada – NHRDP

Health, social and environmental determinants for developmental attainment in young children in Canada. *To T, Dick P, Parkin P, Rosenfield J, Guttman A, Cadarette S*

current year \$24,000 term 1999 – 2001

The Richard Ivey Foundation

Integration of teletriage and homecare services into a sustainable service for Toronto children. *Dick PT, Young N*

current year \$250,000 term 2000 – 2003

Bloorview Macmillan Foundation

Linking child and adult health databases: A feasibility study (Effectiveness). *Young NL, Steele C (Co-Principal Investigator)*

current year \$20,000 term 2000 – 2001

Becton Dickinson

Nasal vs. nasopharyngeal cultures for isolation of respiratory viruses. *Ipp M, Parkin P, Carson S, Petric M (US Funds)*

current year \$26,500 term 1999 – 2000

University of Michigan Medical School Research Endowment Fund

Negotiating professional dilemmas: A rhetorical analysis of reasoning and rationalization. *Lingard L (PI), Stern D*

current year \$11,630 term 1999 – 2000

Ontario Ministry of Health

Ontario Ministry of Health Career Scientist Award – Salary + Benefits. *Dick PT*

current year \$50,000 term 1999 – 2004

Research Institute, Hospital for Sick Children Seed Grant Competition

Prescription patterns of asthma medication in children. *Dick PT, To T*

current year \$12,000 term 1999 – 2000

The Health Institutes Design Grant, A Joint Initiative of the Social Sciences and Humanities Research Council of Canada and the Canadian Health Services Research Foundation

Shifting responsibilities and settings for health (evaluation and planning of home care in Canada's Health System). *Coyte P, Dick PT*

current year \$40,000 term 1999 – 2000

The Hospital for Sick Children, Pediatric Consultants
Research Grant

Teaching preclerkship clinical skills in the private office setting:
A prospective cohort study. *Schneider R, Lingard L (Co-PI)*

current year \$5,000 term 1999 – 2000

The University of Toronto Faculty of Medicine Dean's Fund
New Staff Grant

Team communications in the operating room: A rhetorical clas-
sification and interdisciplinary analysis of common problems.
Lingard L (PI), Reznick R, Espin S, DeVito I, Regehr G

current year \$10,000 term 1999 – 2000

Health Canada, Health Transition Fund

Tele-homecare: Multi-site Canadian modeling component.
Young NL, Dick P

current year \$87,240 term 1999 – 2001

Health Transition Fund (Health Canada)

Tele-Homecare: Multi-Site Canadian Modeling Component.
Dick PT, Young N

current year \$87,240 term 1999 – 2000

G.H. Wood Foundation

Telemedicine evaluation program (Effectiveness). *Filler R,
Young NL*

current year \$250,000 term 1997 – 2002

American Academy of Pediatrics Practitioner Research Grant

The association between influenza virus and acute episodes of
wheezing in asthmatic children – A case control study. *Ipp M,
Parkin P, Ford-Jones EL, Goldbach M, Petric M, Schuh S, Taylor C
(US)*

current year \$5,000 term 1998 – 2000

The Hospital for Sick Children, Seed Grant

The association between influenza virus and acute episodes of
wheezing in asthmatic children – A case control study. *Ipp M,
Parkin P, Ford-Jones EL, Goldbach M, Petric M, Schuh S, Taylor C*

current year \$13,000 term 1998 – 2000

Institute for Clinical Evaluative Sciences of Ontario

The Ontario Health care services mosaic in 2000. *Dick PT*

current year \$29,423 term 2000 – 2001

The National Institute of Health

The participation of children with physical disabilities. *Law M,
Young NL*

current year \$1,360,370 term 2000 – 2003

Office of the Health and Information Highway Health
Infostructure Support Program (Health Canada), Bell Canada
Telemonitoring Fund

The tele-homecare project: An integrated transition between
hospital and home. *Young N, Dick PT*

current year \$836,521 term 1999 – 2000

The Hospital for Sick Children Foundation Donation

To set up research into Stephen Johnson disease. *Krafchik BR*

current year \$3,408 term 1999 – 2000

Novartis Pharma Canada Inc.

To study the effective duration (1,2 or 4 weeks) and safety of
lamisil in patients with tinea capitis due to Trichophyton
species. *Krafchik BR*

current year \$58,574 term 1999 – 2000

Bayer Inc.

To support a dermatology fellow. *Krafchik BR*

current year \$15,000 term 1997 – 2000

Medical Research Council/Association of Canadian Medical
Colleges

Understanding relevance in clinical communication: A cross-
departmental study of definitions and applications by experts
and novices. *Lingard L*

current year \$14,320 term 1999 – 2000

Paediatric Consultants

Using the private office as a site for preclerkship clinical skills
training, paediatrics: A prospective pilot study. *Schneider R,
Lingard L, Jacobson SJ (Co-Investigators)*

current year \$5,023 term 1999 – 2000

respiratory medicine

faculty Allan L Coates, B.Eng.(Elect), MDCM, head,

Jim Hu, PhD, Ian B MacLusky, MBBS, FRCP(C)

Paediatrics, FRCP(C) Respiratory Medicine, Hugh

O'Brodovich MD, FRCP(C) Paediatrics; ABP Paediatrics;

FRCP(C) Respiratory Medicine, J Joseph Reisman, MD,

FRCP(C) Paediatrics, FRCP(C) Respiratory Medicine,

MBA (until December 31, 1999), Melinda Solomon,

MD, FRCP(C) Paediatrics FRCP(C) Respiratory Medicine,

Padmaja Subbarao, MD, FRCP(C) Paediatrics ABP

Paediatrics, FRCP(C) Respiratory Medicine, Neil B

Sweezey, BSc, MD, FRCP(C) Paediatrics, FRCP(C)

Respiratory Medicine **part-time** Peter Bikangaga,

MBBS, FRCP(C) Paediatrics, FRCP(C) Respiratory

Medicine, Jacqueline Nemni, B.Eng., MD, FRCP(C)

(Respirology and Internal Medicine) **clinical fellows**

Dr. Muslim Al-Saadi, Dr. Anne-Marie Canakis, Dr.

Alastair Reid, Dr. Sharon Dell

publications

Chow Y-H, Wang Y, Plumb J, O'Brodovich H, Hu J: Hormonal regulation and genomic organization of the human amiloride-sensitive epithelial sodium channel alpha subunit gene. *Pediatric Research*: July 1999; 46(2): pp 208-214.

Coates AL: Editorial – Classical Respiratory Physiology – Gone the way of the dinosaurs? Do we need a Jurassic Park? *Pediatric Pulmonology*: January 2000; 30: pp 1-2.

Coates AL, MacNeish CF, Allen PD, Lands LC: Do sinusoidal models of respiration accurately reflect the respiratory events of patients breathing on nebulizers. *Journal of Aerosol Medicine*: July 1999; 12: pp 265-273.

Crapo RO, Casaburi R, Coates AL, Enright PL, Hankinson JL, Irvin CG, MacIntyre NR, McKay RT, Wanger JK, Anderson SD, Cockcroft DW, Fish JE, Sterk PJ: ATS Guidelines for Methacholine and exercise challenge testing. *American Journal of Respiratory and Critical Care Medicine*: January 2000; 161: pp 309-329.

Ho SL, Coates AL: The effects of dead volume on the calculation of the actual cost to deliver commonly used medications in cystic fibrosis with four disposable nebulizers. *Canadian Respir Journal*: July 1999; 6: pp 253-260.

Majnemer A, Riley P, Shevell M, Birnbaum R, Greenstone MA, Coates AL: Severe bronchopulmonary dysplasia increases risk for later neurologic and motor sequelae in preterm survivors. *Developmental Medicine and Child Neurology*: January 2000; 42: pp 53-60.

Matalon S, O'Brodovich H: Sodium channels in alveolar epithelial cells: Molecular characterization, biophysical properties, and physiological significance. *Annual Review of Physiology*: July 1999; 61: pp 627-661.

O'Brodovich H, Pleinys R, Walker N: Peer reviewed career development and compensation program for physicians in an academic health science center. *Annals of the Royal College of Physicians and Surgeons of Canada*: January 2000; 33(2): pp 88-96.

Otulakowski G, Rafii B, Bremner HR, O'Brodovich H: Structure and hormone responsiveness of the gene encoding the α -subunit of the rat amiloride-sensitive epithelial sodium channel. *American Journal of Respiratory Cell and Molecular Biology*: July 1999; 20: pp 1028-1040.

Rafii B, Coutinho C, Otulakowski G, O'Brodovich H: Oxygen induc-

tion of epithelial Na⁺ transport in fetal distal lung epithelia requires heme proteins. *American Journal of Physiology*: January 2000; 278: pp L399-L406.

Schuh S, Reisman JJ, Alshehri M, Supuis A, Core M, Arseneault R, Alothman G, Tennis O, Canny R: A Comparison of inhaled fluticasone and oral prednisone for children with severe acute asthma. *New England Journal of Medicine*: June 2000; 343: pp 689-693.

Smith DE, Otulakowski G, Yeger H, Post M, Cutz E, O'Brodovich H: Epithelial Na⁺ Channel (ENaC) Expression in the developing normal and abnormal human perinatal lung. *American Journal of Respiratory and Critical Care Medicine*: January 2000; 161: pp 1322-1331.

Subbarao P, Brannan J, Ho B, Anderson SD, Chan HK, Coates AL: Inhaled mannitol identifies methacholine responsive children with current asthma. *Pediatric Pulmonology*: January 2000; 29: pp 291-298.

Weiss ST, Van Natta ML, Zeiger RS for the Childhood Asthma Management Program Research Group (Reisman JJ member): Relationship between increased airway responsiveness and asthma severity in the childhood asthma management program. *American Journal of Respiratory and Critical Care Medicine*: June 2000; 162: pp 50-56.

Zhang C, Sweezey NB, Gagnon S, Muskat B, Koehler D, Post M, Kaplan F: A novel karyopherin homolog is developmentally and hormonally regulated in fetal lung. *American Journal of Respiratory and Cellular Molecular Biology*: January 2000; 22: pp 451-459.

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Rafii B, Tanswell AK, Pitkanan O, O'Brodovich H: Physiologic increase in oxygen concentration augments Na absorption in fetal distal lung epithelial cells. In: Chapter 14 – The Physiology & Functional Diversity of Amiloride-Sensitive Na⁺ channels: A New Gene Superfamily. *Current Topics in Membranes* (Benos D, ed). Academic Press, vol 47, unknown: 1999: pp 239-254.

research and investigations

Research Institute, HSC – Seed Grant

Can cardiopulmonary exercise testing with impedance cardiography identify optimal interventions in children with congenital heart disease? *Coates AL*

current year \$17,802 term 2000 – 2002

National Institute of Health National Heart, Lung and Blood Institute

Cost reimbursement contract grant N01-HR-16047: Hospital for Sick Children Clinical Center for study of a childhood asthma management program (CAMP) (US Funds). *Reisman J, MacLusky IB (Co-Investigator – July 1997)*

current year \$366,646 term 1991 – 1999

National Institute of Health. National Heart, Lung, and Blood Institute

Cost reimbursement contract grant: Hospital for Sick Children Clinical Center for study of a childhood asthma management program (CAMP). *Maclusky IB, Solomon M*

current year \$276,486 term 1999 – 2004

Canadian Cystic Fibrosis Foundation

Does physical activity make a difference to lung health in cystic fibrosis? *Coates AL*

current year \$49,914 term 2000 – 2003

Medical Research Council of Canada

Effect of heparin derivatives on thrombin regulation by the fetal lung surface. *Chan A, O'Brodovich H, Andrew M*

current year \$69,000 term 1999 – 2001

MRC-PMAC (Glaxo Wellcome)

Efficacy of Inhaled Fluticasone vs. Oral Prednisone in Acute Childhood Asthma. *Schub S, Reisman JJ*

current year \$52,000 term 1998 – 1999

MRC/PMAC Health Program

Efficacy of oral Dexamethasone in outpatients with Acute Bronchiolitis. *Schub S, Coates AL (Co-investigator)*

current year \$7,161 term 1998 – 2001

Canadian Institutes of Health Research (formerly MRC Canada)

Functional analyses of two novel developmentally regulated genes in fetal lung. *F. Kaplan (P.I.), Sweezey NB, (co-investigator)*

current year \$114,138 term 2000 – 2003

Canadian Cystic Fibrosis Foundation

Gender hormone modulation of ENaC, CFTR, and ion transport in human airway epithelium. *Sweezey NB*

current year \$69,390 term 1997 – 2000

Canadian Cystic Fibrosis Foundation

Gender hormone modulation of the CF lung phenotype. *Sweezey NB*

current year \$71,900 term 2000 – 2003

Canadian Institutes of Health Research (formerly MRC Canada)

Glucocorticoid receptor and glucocorticoid-responsive genes in developing lung. *Sweezey NB*

current year \$91,180 term 2000 – 2003

MRC 25029

Group in lung development. *Otulakowski G*

current year \$212,260 term 1999 – 2004

National Institutes of Health National Heart, Lung and Blood Institute

Hospital for Sick Children Clinical Center for Study of a Childhood Asthma Management Program (CAMP). (US funds). *Reisman JJ*

current year \$2,566,526 term 1991 – 1999

Medical Research Council of Canada and the Canadian Cystic

Fibrosis Foundation (Joint Funding)

Multi-centre trial of high dose ibuprofen in patients with cystic fibrosis. *Lands L, MacLusky IB (Co-Principal Investigator – Jan. 1998)*

current year \$26,000 term 1998 – 2000

Canadian Heart Foundation (Heart and Stroke Foundation of Ontario)

NA4448 Pulmonary edema's effect on epithelial ion and fluid transport. *O'Brodovich H*

current year \$79,960 term 2000 – 2001

MRC 25046

Regulation of lung epithelial Na channel expression. *O'Brodovich H, G. Otulakowski (Co-Principal Investigator)*

current year \$34,010 term 1999 – 2004

Medical Research Council of Canada (MRC Group Grant in Lung Development)

Regulation of lung epithelial Na channel expression. *O'Brodovich H, Otulakowski G (Co-PI.)*

current year \$86,295 term 1999 – 2004

Canadian Cystic Fibrosis Foundation

Safe, predictable, efficient delivery of inhaled antibiotics. *Coates AL*

current year \$54,103 term 1999 – 2001

Ontario Thoracic Society Grant-in-Aid

Sodium channel expression in developing human lung. *Otulakowski G, O'Brodovich H (Co-Principal Investigator)*

current year \$29,000 term 2000 – 2001

Hospital for Sick Children 2000 Seed Grant Competition

Sodium channel expression in developing human respiratory airway epithelium. *Otulakowski G, O'Brodovich H (Mar 1, 2000 – Feb 28, 2001)*

current year \$6,574 term 2000 – 2001

r h e u m a t o l o g y

faculty Patricia C Parkin, MD (Head), Tara T. Baron, MD, Stacey E Bernstein, MD, Victoria J. Davis, MD, Paul T Dick, MDCM, Jeremy N Friedman, MBChB, Beth Gamulka, MDCM, Marvin H Gans, MD, Alan Goldbloom, MDCM, Saul Greenberg, MD, Robert I Hilliard, MD , Dirk W Huyer, MD, Moshe M Ipp, MBBCh, Sheila J Jacobson, MBBCh, Bernice R Krafchik, MBChB, Sanjay Mahant, MD, Marcellina Mian, MDCM, Michael Peer, MD, Marina Salvadori, MD, Norman R Saunders, MD, Michelle K. M. Shouldice, MD, Susan E Tallett, MBBS, Teresa To, PhD, Michael Weinstein, MD, Nancy L Young, PhD **part-time** Lisa Allen, MD, Crawford Anglin, MD, Tony Barozzino, MD, Glenn Berall, MD, Alan Berzen, MBBCh, Lionel Boxall, MBBS, Michael Braudo, MBChB, Nicolette Caccia, MD, Bonnie Cameron, MD, Andrew Chlebus, MD, Carlos Contreras, MD, Susan Coombs, MD, William Davidson, MD, Till Davy, MD, Gordon Donsky, MD, Michael Dorey, MD,

Katy Driver, MBBS, Andrew Duic, MD, Anthony Duke, MD, Thomas Egan, MD, Robert Farber, MD, Michelle Farine, MD, Hyder Fazal, MD, Darcy Fehlings, MD, Mark Feldman, MD, William Feldman, MDCM , Leona Fishman, MD, Adelaide Fleming, MD, Ralph Folman, MD, John Freedman, MD, Lee Ann Gallant, MD, Hartley Garfield, MD, Colin Geft, MBChB, Rose Geist, MD, Sabine George, MD, Milton Gold, MD, Morton Goldbach, MD, Leslie Goodis, MD, Stuart Gordner, MD, Manuel Greenberg, MD, Katerina Haka-Ikse, MD, Richard Hamat, MD, William Hanley, MD, William Hawke, MD, James Hilton, MD, Anthony Hui, MD, Nicole Inch, MD, Jaya Islur, MBBS, Walter James, MD, Anna Jarvis, MBBS, Ross Johnson, MD, Shahida Khan, MBBS, Ian Kitai, MD, Luba Komar, MD, Beverley Kupfert, MD, Howard Langer, MD, Bernard , Laski, MD, Bernard Laytner, MD, Cinda Lee, MD, John Lee, MD, Eun Lee-Hong, MD, Michael Lester, MD, Leo Levin, MD,

Peter Lewin, CDMD, Patricia Linders, MD, Martin Lindzon, MD, John Lovering, MD, Mary MacDonald, MD, Gerard MacGillivray, MD, David Maresky, MBChB, Aubrey Maze, MBChB, Gilbert Miller, MD, Janette Milne, MD, Golda Milo-Manson, MD, William Mounstephen, MD, Paul Munk, MD, Joan Murphy, MD, John D. Murray, MD, Jack Newman, MD, Raymond Ng, MD, Eleazar Noriega, MD, Ricardo Olivares, MD, Larry Pancer, MD, Evangelia Papadouris, MBChB, Jocelyne Parent, MD, Joseph Porepa, MD, Percy Rajchgot, MD, Colin Ramsay, MD, Anne Richards, MBBS, Knox Ritchie, MBBCh, Wendy Roberts, MD, Jay Rosenfield, MD, Antonina Saksznajder, MD, Susan Schneeweiss, MD, Suzana Schuh, MD , Clive Schwartz, MBChB, Michael Sgro, MD, Chandrakant Shah, MD, David Shawn, MD, Pryma Skowron, MD, Elspeth Sladen, MBBS, Janet Star, MD, Donald Stewart, MD, Peter Strachan, MD, Heshy Sturm, MD, Robert Sutton, MBBS, Joseph Telch, MD,

Lionel Weinstein, MD, Jeff Weisbrot, MD, Sheldon

Wise, MD, Martin Wolfish, MD, Brenda Woods, MD

clinical fellows Ibrahim Al-Jalsi, MD (King Abdulaziz

University, Jeddah, Saudi Arabia), Astrid Guttmann,

MDCM (McGill University, Montreal, Canada)

publications

- Al-Mayouf S, Feldman B, Hawker G, Laxer RM, Cheryl C, Schneider R, Rubin LA: Pilot study comparing quantitative heel ultrasound (U/S) with dual energy x-ray absorptiometry (DEXA) for the evaluation of corticosteroid-induced osteoporosis in children. *Journal of Paediatrics*: July 1999:
- Al-Mayouf S, Feldman B, Hawker G, Laxer RM, Schneider R, Silverman ED: Intravenous immunoglobulin therapy for juvenile dermatomyositis: Efficacy and Safety. *The Journal of Rheumatology*: July 1999:
- Arnett FC, Tan FK, Uziel Y, Laxer RM, Krafchik BR, Bona C: Autoantibodies to the extra-cellular matrix microfibrillar protein, fibrillin-1, in patients with localized scleroderma. *Arthritis Rheumatology*: July 1999: 42: pp 2656-2659.
- Bachmaier K, Neu N, Yeung RSM, Mak TW, Liu P, Penninger J: Generation of Humanized Mice Susceptible to Peptide-induced Inflammatory Heart Disease. *Circulation*: July 1999: 14: pp 1885-1891.
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- Brunner HI, Feldman BM, Bombardier C, Schneider R, Silverman ED: Sensitivity of the systemic lupus erythematosus disease activity index, British Isles lupus assessment group index, and systemic lupus activity measure in the evaluation of clinical change in childhood-onset systemic lupus erythematosus. *Arthritis and Rheumatism*: July 1999: 42(7): pp 1354-1360.
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- Dosch H-M, Becker DJ: Measurement of T cell autoreactivity in autoimmune diabetes. *Diabetologia*: July 1999: 43: pp 386-387.
- Dosch H-M, Cheung RK, Karges W, Pietropaolo M, Becker DJ: Persistent T cell anergy in human Type 1 diabetes. *Journal of Immunology*: July 1999: 163: pp 6933-6940.
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- Feldman BM (Corresponding Author): Preventing joint damage from hemophilia (Editorial). *Journal of Rheumatology*: June 2000: 27: pp 1579.

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- Harrison C, Laxer RM: A bioethics program in pediatric rheumatology. *The Journal of Rheumatology*: January 2000: 27: pp 1780-1782.
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- Lovell DJ, Giannini EH, Reiff A, Cawkwell CG, Silverman ED, Nocton JJ, Stein LD, Gedalia A, Howite NT, Wallace CA, Whitmore J, Finck BK: Etanercept in children with polyarticular juvenile rheumatoid arthritis. *New England Journal of Medicine*: July 1999: 342(11): pp 763-770.
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books and chapters in books

- Darzins P, Molloy W, Strang D, Harrison C, Bedard M: Using the assessment process. In: *Capacity to Decide* (Molloy DW, Darzins P, Strang D, eds). New Grange Press, Troy, ON: 1999: pp 33-46.
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9: Involving children in medical decisions. In: *Bioethics at the Bedside: A Clinicians Guide* (Singer PA, ed). Canadian Medical Association, Ottawa, Ontario: 1999: pp 63-69.

Laxer RM: Juvenile ankylosing spondylitis and seronegative spondyloarthropathy. In: *Ambulatory Pediatrics* (Stockman JA, ed): 2000:

Laxer RM, Gazarian M: Drug therapy in rheumatic disease. In: *Textbook of Pediatric Rheumatology* (Cassidy JT, Petty RE, eds): 2000:

Molloy W, Darzins P, Harrison C, Strang D, Tuttle I: Problems with capacity assessment. In: *Capacity to Decide* (Molloy DW, Darzins P, Strang D, eds). New Grange Press, Troy, ON: 1999: pp 201-225.

Yeung RSM, Penninger JM, Mak TW: Chapter 4: T Cell Development. In: *Primary Immunodeficiency Diseases, a Molecular and Genetic Approach* (Ochs HD, Smith CIE, Puck J, eds). Oxford University Press.: 1999: pp 34-54.

research and investigations

CIHR

Characterization of ICA69, A major new beta-cell protein with unknown function. *Dosch H-M*

current year \$168,912 term 1999 – 2002

Paediatric Consultants

Clinical relevance of functional measures in children with juvenile arthritis and other musculoskeletal disability. *Feldman BM, Dempster H, Porepa M*

current year \$1,070 term 1999 – 2000

MRC/PMAC Health Program

Cost-effectiveness of escalating frequency factor VIII prophylaxis in severe hemophilia A. *Feldman BM, Blanchette V, Einerson T, Rivard G, Israels S, Robinson S, Oh P, Babyn P, Hedden D*

current year \$125,000 term 1999 – 2002

CIHR

Development and regulation of human immune responsiveness. *Dosch H-M*

current year \$551,000 term 1994 – 1999

Juvenile Diabetes Foundation Int'l

Development of NOD mouse embryonal stem cell: A resource development program. *Dosch HM, Ellis J, Nagy A U.S.*

current year \$450,000 term 1998 – 2001

Bayer Institute on Health Care Communication

Easing the burden of end-of-life decision making: Learning from the experiences of parents. *Antle BJ, Cottingham D, Gbelani K, Gorman E, Harrison Carole, Harrison Christine (co-investigator), Martin M, Rutka J*

current year \$20,000 term 2000

Immunex Corporation

Efficacy of soluble TNFR in JRA. *Silverman ED*

current year \$90,000 term 1997 – 2001

Associated Medical Services

End-of-life decisions in the neonatal intensive care unit: The parent's perspective. *Hellmann J, O'Brien K, McAllister M, Harrison C (co-investigator), Marshall M, Jacobs S*

current year \$15,000 term 2000

Canadian Diabetes Association

Estimation of diabetes disease risk through surrogate markers. *Dosch H-M*

current year \$180,000 term 1999 – 2002

Hospital for Sick Children Research Institute

Hospital for Sick Children Research Institute Computer Equipment Competition. *Yeung RSM*

current year \$2,400 term 1999

Medical Research Council

Investigation of congenital heart block using animal models. *Silverman ED (Co-Principal Investigator)*

current year \$76,554 term 1998 – 2001

The Arthritis Society (Canada)

Junior Research Scholar. *Yeung RSM*

current year \$45,000 term 1997 – 2001

Hoechst Mario Roussel

Leflunomide in JRA. *Silverman ED, Feldman BM, Laxer RM, Schneider R, Spiegel L*

current year \$65,000 term 1998 – 2000

March of Dimes Birth Defects Foundation

Maternal autoantibodies in pregnancy and congenital atrioventricular block. *Silverman ED (Co-Principal Investigator) – June 1998 – May 2000 (US Funds)*

current year \$66,152 term 1998 – 2000

CIHR

Molecular mechanisms in diabetic autoimmunity. *Dosch H-M*

current year \$301,011 term 1998 – 2001

Medical Research Council of Canada

Neurocognitive development in the offspring of women with systemic lupus erythematosus. *Silverman ED (Co-Investigator)*

current year \$96,000 term 1999 – 2001

Arthritis Society

Pilot study of fitness training and exercise testing in polyarticular childhood arthritis. *Feldman BM, Wright V, Bar-Or, O*

current year \$14,000 term 1997 – 2000

Medical Research Council of Canada

Pre-trial development phase of the Canadian trial branch (TRIGR), diabetes prevention trial symposia. *Dosch H-M*

current year \$5,000 term 1999 – 2000

National Institutes for Health

Randomized trial of a systematic application of a health care directive. Agency for health care policy and development. *Molloy DW, Guyatt G, Mitchell A, Willan A, Goeree R, Harrison C (co-investigator), O'Brien B*

current year \$1,500,000 US Funds term 1993 – 1999

University of Toronto Connaught Grant

The Role of Superantigens in Autoimmunity. *Yeung RSM*

current year \$15,000 term 1998 – 2000

The Arthritis Society (Canada)

The Role of Superantigens in Autoimmunity. *Yeung RSM*

current year \$60,000 term 1997 – 2000

The Hospital for Sick Children, Paediatric Consultants

The Role of Transforming Growth Factor B- 1 in Chronic Recurrent Multifocal Osteomyelitis. *Yeung RSM*

current year \$5,000 term 1999 – 2000

Paediatric Consultants

Using the private office as a site for preclerkship clinical skills training in paediatrics: A prospective pilot study. *Schneider R, Jacobson S, Lingard L*

current year \$5,000 term 2000

Medical Research Council

Warfarin prophylaxis in SLE patients with antiphospholipid antibodies. *Silverman ED (Co-Investigator)*

current year \$165,000 term 1997 – 2001

Associated Medical Services

Withdrawal of life sustaining medical technology in the neonatal intensive care unit: Factors influencing physician practice. *Hellmann J, Jacobs S, O'Brien K, McAllister M, Harrison C (co-investigator)*

current year \$15,000 term 1999

interdivisional colleagues

publications

- Ballantyne M, Stevens B, McAllister M, Dionne K, Willems J, Jack A: Validation of the Premature Infant Pain Profile in the clinical setting. *Clinical Journal of Pain*: January 2000: pp 297-303.
- Barnes MA, Dennis M, Wilkinson M: Reading after closed head injury in childhood: Effects on decoding, fluency, and comprehension. *Developmental Neuropsychology*: July 1999: 15: pp 1-24.
- Dennis M, Barnes MA: Speech Acts after mild or severe head injury. *Aphasiology*: January 2000: 14: pp 391-405.
- Franck L, Greenberg C, Stevens B: Pain assessment in infants and children. *Pediatric Clinics of North America*: January 2000: 47(3): pp 487-512.
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- Sidani S, Stevens B: Alternative therapies and placebos: Conceptual clarification and methodologic implications. *Canadian Journal of Nursing Research*: January 2000: 31(4): pp 73-86.
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- Stevens B, Gibbins S, Franck L: Pain management of infants in the NICU. *Pediatric Clinics of North America*: January 2000: 47(3): pp 633-650.
- Stevens B, Johnston C, Franck L, Petryshen P, Jack A, Foster G: The efficacy of developmentally sensitive interventions and sucrose for relieving procedural pain in very low birth weight neonates. *Nursing Research*: July 1999: 48(1): pp 35-43.
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- Watt-Watson J, Stevens B, Costello J, Katz J, Reid G: Impact of preoperative education on pain management outcomes after coronary artery bypass graft surgery: A pilot. *Canadian Journal of Nursing Research*: January 2000: 31(4): pp 41-56.

books and chapters in books

- Anand KJS, Stevens, B., McGrath PJ: Pain in Neonates, (2nd Revised and Enlarged Ed.), Volume 10 (Anand KJS, Stevens, B., McGrath PJ, eds). Elsevier, Amsterdam: 2000:
- Dennis M, Barnes MA, Hetherington CR: Congenital hydrocephalus as a model of neurodevelopmental disorder. in *Neurodevelopmental Disorders*. In: Contributions to a New Perspective from the Cognitive Neurosciences (Tager-Flusberg H, ed). MIT Press, Cambridge, MA 505-532. e1999-000: 1999: pp 505-532.
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- Ohlsson A, Taddio A, Jadad A, Stevens B: Evidence-based decision making, systematic reviews and the Cochrane Collaboration: Implications for neonatal analgesia. In: *Pain in Neonates*, (2nd Revised and Enlarged Ed.), Volume 10 (Anand KJS, Stevens, B., McGrath PJ, eds). Elsevier, Amsterdam: 2000: pp 251-268.
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2000: pp 101-134.

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research and investigations

The Canadian Institute of Health Research (CIHR) Opportunity Program

The Canadian Pain Research Diagnosis and Management Network (42 members from across Canada)

current year \$50,000 term 1999 – 2000

WSIB

An investigation of the case manager role at the Ontario Workplace Safety and Insurance Board. *Irvine D, Sidani S, Watt-Watson J, O'Brien-Pallas L, Cameron S, Stevens B, Gallop R, Pomerleau J*

current year \$46,255 term 1999 – 2001

Hospital for Sick Children Foundation

Comparison of hospital and home chemotherapy for children with high risk cancer. *Stevens B (PI), Booth M, McKeever P, Greenberg M, Millar C, Gammon J, Gafni A*

current year \$64,761 term 1999 – 2001

National Institutes of Health

Discourse and academic skills in children with spina bifida. PI for project 5 of program project "Spina bifida: Cognitive and neurobiological variability". *Fletcher JM, Barnes MA, Dennis M, Fletcher JM, Brandt ME, Kramer LA, Blaser S (U.S.)*

current year \$57,191 term 1998 – 2003

The Hospital for Sick Children, 1999 Seed Grant Competition for Patient-Based Research

Evaluation of the safety and efficacy of amethocaine for reducing procedural pain in neonates. *Ballantyne M, Ung E, Bisbai R, Gibbins S, McNair C, Newman C, Stevens B*

current year \$14,962 term 1999 – 2000

Health Canada, Health Transition Fund

Home chemotherapy for children with cancer: an evaluation of costs and health services utilization. *Stevens B (PI), Booth M, McKeever P, Greenberg M, Daub S, Millar C, Gammon J, Gafni A*

current year \$33,500 term 1999 – 2001

HSC Foundation, Physicians Services Inc. & Ontario Neurotrauma Foundation

Hypothermia pediatric head injury trial: A randomized controlled trial of hypothermia in children with severe traumatic head injury. *Hutchison J, Hebert P, Mober D, La Croix J, Barnes MA, Bohn D.*

current year \$144,000 term 1998 – 2000

Heart and Stroke Foundation of Canada

Impact of a preoperative intervention on pain outcomes after CABG surgery. *Watt-Watson J, Stevens B, Katz J, Costello J, Reid G, Davis T*

current year \$53,755 term 1999 – 2001

National Institutes of Health

Longitudinal effects of spina bifida on early learning. Site PI for Project 2 of program project “Spina bifida: Cognitive and neurobiological variability”. *Fletcher JM, Landry SH, Barnes MA (U.S.)*

current year \$32,148 term 1997 – 2003

American Nurses Foundation

Maternal hands and knees position and labor: the PAL trial. *Stremler R, Hodnett E, Stevens B, Hannab M*

current year \$7,493 term 1999 – 2000

Ontario Mental Health Foundation.

Math Processing after early hydrocephalus. *Barnes MA, Dennis M, Hetherington CR*

current year \$49,150 term 1997 – 1999

National Institutes of Health

Neurobehavioral outcome of head injury in children. *Levin HS, Dennis MF, Barnes MA, Rutka J, Schachar R, Chuang S (U.S.)*

current year \$135,000 term 1998 – 2003

National Institutes of Health, National Institute of Nursing Research

Nursing SCIL (Supportive Care in Labor) Trial. *Hodnett E (PI), Hannab M, Gafni A, Willan A, Stevens B, Muir H, Ohlsson A, Strada M, Lowe N*

current year \$US FUNDS)

current year \$328,232 term 1998 – 2001

University of Toronto, Faculty of Nursing Internal Research Grant

Pain and quality of life for infants, children and their families. *Stevens B (PI), McKeever P (Co-PI)*

current year \$2,500 1999 – 2000

The Canadian Institute of Health Research – Interdisciplinary Health Research Team Program

Pain assessment and management in persons with a limited capacity to communicate. *Craig K, Finley A, Hadjistavropoulos T, Oberlander T, McGrath P, Stevens B*

current year \$9,800 term 2000 – 2001

NHRDP

Pain in infants and children: The determinants of research utilization in acute clinical settings. *Eastabrooks C (PI), Stevens B (Co-PI), Lander J (Co-PI), Watt-Watson J, Donner G, O'Brien-Pallas L*

current year \$172,650 term 2000 – 2003

The Medical Research Council of Canada

current year \$125,546) and Bloorview Children's Hospital Foundation

Pain in infants with neurological impairments: A program of research. *Stevens B (PI), McGrath P (Co-PI), Johnston C, McKeever P, Ohlsson A, Finley A, Howlett A*

current year \$9,150

current year \$134,695 term 2000 – 2003

The Medical Research Council of Canada

Pain in preterm infants: consequences and effect of maternal comfort. *Johnston C, Walker D, Stevens B, Pinelli J, Lepage L, Gibbins S*

current year \$68,749 term 2000 – 2003

Purdue Frederick

Patients' analgesic requirements following discharge after Coronary Artery Bypass Graft (CABG) surgery. *Watt-Watson J, Stevens B, Katz J, Costello J, Reid G, Davis T*

current year \$8,750 term 1999 – 2001

The Canadian Institute of Health Research – Interdisciplinary Health Research Team Program

Preterm Labour: Causes, outcomes and prevention. *Lye S, Bartlett D, Campbell K, DaSilva O, Lee S, Ohlsson A, Saigal S, Stevens B*

current year \$15,000 term 2000 – 2001

The Medical Research Council of Canada

Prevention of post partum depression in women at risk: A randomized trial of 2 prenatal psychosocial interventions. *Farine D, Citron K, Murphy K, Zaretsky A, Goldberg S, Lancee W, Wong J, Stevens B*

current year \$43,102 term 2000 – 2002

The Office of Health Information Highway, Health Canada

Tele-Home-Care Project: An integrated transition between hospital and home. *Dick P (Co-PI), Young N (Co-PI), McKeever P, To T, Booth M, Coyte P, Filler R, Stevens B, Daub S, Reisman J,*

Spence D, Weaver L

current year \$204,703 term 1999 – 2001

Health Transition Fund, Health Canada

Tele-Homecare: Multi-Site Canadian Modeling Component.

Dick P, Young N, McKeever P, To T, Booth M, Coyte P, Filler R, Stevens B, Daub S, Reisman J, Spence D, Weaver L

current year \$87,240 term 1999 – 2000

Health Transition Fund, Health Canada

The cost effectiveness of home versus hospital management of feeding difficulties in preterm infants. *Stevens B (PI), McKeever P (Co-PI), Coyte P*

current year \$27,500 term 1999 – 2001

Hospital for Sick Children Foundation

The cost effectiveness of home versus hospital management of feeding difficulties in term infants. *Stevens B (PI), McKeever P (Co-PI), Coyte P*

current year \$15,000 term 1999 – 2001

Health Canada

The determinants of research utilization in an acute clinical setting. *Estabrooks C, Lander J, Norris J, Boschma G, Watt-Watson J, Stevens B, O'Brien-Pallas L, Donner G, Williams J*

current year \$68,228

and AGFAR,

current year \$\$95,000

current year \$163,228 term 1999 – 2002

The Hospital for Sick Children, 1999 Seed Grant Competition for Patient-Based Research

The safety and efficacy of sucrose for procedural pain in infants. *Gibbins S, Stevens B (PhD supervisor), Hodnett E, Ohlsson A, Pinelli J*

current year \$17,360 term 1999 – 2000

1999-2000 paediatric housestaff

chief residents:

Amanda Barclay, MD *McMaster University*
Sharon Carson, MD *University of Toronto*

associate chief residents:

Mohamed Ashur MBBS, *Al Fateh University, Libya*
Bert Cellupica MD, *Queen's University*
Mijin Cho MD, *University of Western Ontario*
Judy Donsky MD, *University of Toronto*
Stephen Freedman MD, *McGill University*
Eddy Lau MD, *Queen's University*
Aaron Lindzon MD, *Queen's University*
Trent Mizzi MD, *University of Calgary*
Sean Murray MD, *University of Toronto*
Elena Pope MD, *University of Bucharest*
Catherine Taylor MD, *University of Toronto*
Lana Weaver MD, *University of Toronto*
Miriam Weinstein MD, *University of Toronto*

postgraduate year 3

Jason Berman MD, *University of Toronto*
Catherine Birken MD, *University of Toronto*
Doug Campbell MD, *University of Calgary*
Lionel Chow MD, *McGill University*
Michelle Gordon MD, *University of Toronto*
Joanne Harrold MD, *McMaster University*
Sherri Katz MD, *McGill University*
Anne Kawamura MD, *University of Toronto*
Sanjay Mehta MD, *University of Calgary*
Carole O'Beirne MD, *University of Toronto*
Amy Ornstein MD, *McGill University*
Rachel Pearl MD, *University of Toronto*
Jodi Rosner MD, *McMaster University*
Suzanne Ross MD, *Queen's University*

postgraduate year 2

Marilyn Abraham MD, *University of Toronto*
Carolyn Beck MD, *Queen's University*
Sam Cammisuli MD, *University of Toronto*
Rachel Dayan MD, *University of Toronto*
Sonny Dhanani MD, *University of British Columbia*
Brian Hershenfield MD, *McGill University*
Elizabeth Jimenez MD, *University of Toronto*
Jill Lipos MD, *McGill University*
Elyanne Ratcliffe MD, *McMaster University*
Savithri Ratnapalan MD, *University of Colombo, India*
Maggie Shu MBBS, *University of Hong Kong*
Ben Sivarajan MD, *University of Toronto*
MacGregor Steele MD, *University of Ottawa*
Maria Triassi MD, *University of Toronto*
Valerie Waters MD, *McGill University*

postgraduate year 1

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

1999-00 awards

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. Michelle Shouldice, 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

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

Dr. Sharon Carson, PGY4, Chief Resident

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

Dr. Adelle Atkinson, Immunology-Allergy

Dr. David Malkin, Haematology-Oncology

Clinical award

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

Dr. Anne Kawamura and Dr. Lionel Chow

Research awards

Frederick FitzGerald Tisdall Awards for excellence in resident research.

General Paediatric Section

1st Place: Dr. Sue Stock, PGY3

2nd Place tie: Dr. Marilyn Abraham, PGY2
and Dr. Valerie Waters, PGY2

Paediatric Subspecialty Section

1st Place: Dr. Ian Thornley,
Haematology-Oncology

2nd Place Dr. Silviu Grisaru, Nephrology

Poster Prize: Dr. Jacqueline Curtis,
Endocrinology

Dr. Christopher Tomlinson, Neonatal-Perinatal
Medicine