THE PAEDIATRIC EXECUTIVE COMMITTEE

Back, left to right: Daune MacGregor MD, FRCP(C), Hugh O’Brodovich MD, FRCP(C), Norm Rosenblum MD, FRCP(C), Sonag Macrae RN, MS, MBA, VP Child Health Services

Front, left to right: Sue Tallett MB, BS, FRCP(C), Ramune Pleinys MBA, Director of Administrative Services

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Chair’s Report

Each year, the members of our academic department make important new contributions to the well-being of infants, children and youth through their generation, evaluation, dissemination, and application of health-oriented knowledge.

Our educational activities involve our 790 medical students, 60 paediatric residents and 160 paediatric fellows from 30 different countries, collaborative training of our allied health professions and continuing educational activities for our own and broader community.

Last year, our researchers acquired more than 20 million dollars in external research funding and published almost a thousand scholarly publications.

Our department members provide the vast majority of paediatric medical care at the fully affiliated teaching hospitals of the Faculty of Medicine of the University of Toronto. This includes all tertiary neonatal care at the Sunnybrook and Women’s College Health Science Centre and Mount Sinai Hospital, approximately 70% of all patient care at The Hospital for Sick Children (Sick Kids) and more than 90% of all patient care at the Bloorview MacMillan Children’s Centre.

This year, our annual report honours our faculty members who have received national or international recognition for their academic activities. The recognition that they have received is impressive and is but one indicator of their contributions to the children of Canada and the world.

HUGH O’BRODOVICH MD, FRCP(C)
Professor of Paediatrics and Physiology
Chairman of Paediatrics, University of Toronto
Paediatrician in Chief, The Hospital for Sick Children
Senior Scientist, The Hospital for Sick Children Research Institute
R.S. McLaughlin Foundation Chair in Paediatrics
at The Hospital for Sick Children
The Division of Adolescent Medicine continues to focus its clinical activities in four program areas – eating disorders (EDP), substance abuse, young families (YFP), and complex adolescent problems (CAPP).

The EDP is the provincial centre for child and adolescent eating disorders providing a variety of integrated clinical services to young people and their families. One major accomplishment has been the addition of a Day Hospital resulting in the provision of an extensive continuum of care. Newer initiatives include the integration of cognitive behavioral therapy, parent support groups, psychoeducational groups and multi-family group therapy. The Ontario Community Outreach Program continues to train health care professionals around the Province in the assessment and treatment of eating disorders. Members of the EDP are completing a parent handbook on adolescent eating disorders.

The Adolescent Substance Abuse Outreach Program (ASAOP) and Day Treatment Program have had an increasing number of referrals. Health Canada recognized the highly successful glue-sniffing project as “an exemplary Canadian program.” A partnership with the Toronto Catholic School Board’s Alternative Pupil Placement for Limited Expelled Students (APPLE) program was established. A one-time donation of $5,000 was made to the ASAOP in appreciation for work done by one of our counselors to support education and/or research in the prevention of adolescent substance abuse. Educational activities included the Centre for the Addiction and Mental Health-sponsored continuing education series for primary care physicians, teaching sessions for child psychiatry and core paediatric residents, and Psychiatry Grand Rounds.

CAPP has focused on adolescents with a chronic illness or disability. Service is provided in the Teen Clinic and in collaboration with renal transplant, HIV, SLE clinics and inpatient consultations. A Complicated Contraceptive Clinic was developed with Gynaecology to provide contraceptive counseling, education and treatment. The Clinical Nurse Specialist/Nurse Practitioner (CNS/NP) role was established to provide primary and specialty care. Public education is delivered through presentations at schools, parent groups, media interviews and publications.

The YFP continues to provide health care services, support and health education to high-risk adolescent parents and their children. The YFP continues to work toward strengthening partnerships within Sick Kids and the community. In collaboration with SCAN, the YFP has developed the “High Risk Prevention Project” funded by the Forresters Foundation, which focuses on positive outcomes for both adolescent parents and their children. Together, both programs are working to develop a more consistent, collaborative, evidence-based approach to the assessment, management and prevention of child neglect. The YFP provides education and support to the Children’s Aid Society, prenatal homes and Jessie’s Centre for Teenagers. We continue to participate in Jessie’s Health Program and hold a consultation clinic and teaching session on a monthly basis.

Research is an integral part of the activities of our faculty and trainees. Research activities include the medical complications and treatment outcome of adolescents with eating disorders, evaluation of the use of information technology for health promotion with youth, treatment outcome and specific substance use in adolescents, HIV educational interventions with incarcerated youth and health values in adolescents with chronic illnesses.

Members of the division continue to make significant educational contributions locally, provincially, nationally and internationally. Our faculty hold leadership roles in the Department of Paediatrics Grand Rounds Committee and the development of the Mentorship Program for Clinicians and Teachers. Excellence in education was recognized with the receipt of the Department of Paediatrics Continuing Professional Development and Faculty Development Award.

Division members play a leading role in national and international clinical and research committees including the Infant Mental Health Promotion Project, Canadian Paediatric Society, American Academy of Paediatrics, Society for Adolescent Medicine, Academy for Eating Disorders and the Eating Disorder Research Society.

The fellowship program is one of two nationwide and offers a two-year combined clinical and research fellowship in Adolescent Medicine. Our training program continues to attract excellent candidates from Canada and centres around the world.
The Division of Cardiology was formally established in the 1940’s and is now one of the largest and most successful in the world. Its philosophy has remained unchanged since its inception over sixty years ago: to provide the highest quality care in an evidence-based environment of clinical innovation and scientific discovery.

Over the past decade, the divisional activities, in close collaboration with surgical and intensive care colleagues, have contributed to our markedly improved preoperative diagnosis and postoperative outcomes for children undergoing cardiac surgery, led the field in development of therapeutic catheter techniques, made important contributions to our understanding of fetal cardiac medicine, established one of the largest paediatric cardiac transplantation centres world wide, and has won international recognition for its contribution in the field of epidemiology of acquired and congenital heart disease and surgical outcomes. Each of these areas has provided the substrate for the large clinical research output of the division which is underpinned by our world-class laboratory science program. One of the most exciting clinical developments on the horizon is the commissioning of an integrated suite of catheter laboratories and magnetic resonance scanning facilities in 2006. This unique fusion will allow ‘simultaneous’ multi-mode investigation and treatment, setting the scene for MRI-guided interventional procedures in children, and providing for unique physiologic insights into cardiovascular disease.

The cardiovascular research focus within the Research Institute has made fundamental contributions to our understanding of the cellular biology and molecular genetics of pulmonary vascular bed, with recent diversification to include the study of the fetal myocyte, detailed study of the intercellular structure of the heart and vessels, electrophysiology of the developing heart and immunology of cardiac transplantation. While undergoing a change in leadership, it is expected that high quality basic and translational research, with an emphasis on direct clinical applicability, will continue to form the bedrock of our academic program.

Finally, the Royal College accredited Paediatric Cardiology Training Program is the largest in Canada and one of the largest and most sought after in North America. As such, its fellows have populated cardiology groups throughout the world, many going on to become leaders of our specialty.
Division of Clinical and Metabolic Genetics

The Division of Clinical and Metabolic Genetics is recognized nationally and internationally for its contributions to both clinical genetics and genetic research. We have developed a number of different specialty clinics that serve as an important link between the division and multiple clinical services at Sick Kids.

Research endeavours in the division are actively expanding. These studies include an evaluation of clinical practice guidelines for children with achondroplasia, a study on genotype-phenotype correlations for Sotos syndrome as well as a comprehensive evaluation for children in the Craniofacial Program. The Fourth Annual Starbucks Studentship Award was won by Robert Grunfel. He surveyed current practice profiles for follow up of children with achondroplasia with a view to optimizing guidelines for physicians.

The division of Clinical and Metabolic Genetics participated in The Hospital for Sick Children’s Genetics Centre of Excellence. Presentations were made to the Hospital’s Executive and Foundation.

The division has participated in numerous educational activities for physicians and other health care practitioners. The Paediatric Update 2004 Program included a Genetic Education Day entitled “Genetics in the Office” organized by Cheryl Cytrynbaum. The event was well attended and included Grand Rounds on “The Human Genome Project: The Future of Paediatric Practice” presented by Dr. Rod McInnes, a series of Quick Hit presentations on the genetics of hearing loss, ambiguous genitalia, microdeletion 22q, enzyme replacement therapy and assisted reproductive technology. In addition, there were workshops on ethical issues in genetic counselling and testing, paediatric cancer genetics, and interpreting molecular and cytogenetic tests.

The division received full accreditation from the Canadian College of Medical Geneticists for Comprehensive Centre for Service and Training. The Canadian College of Medical Geneticists fellowship program and The Royal College of Physicians residency program have flourished and we currently have five and seven trainees respectively, in these programs. The MSc Program in Genetic Counselling achieved full accreditation from the American Board of Genetic Counseling in May of 2004 and graduated its fourth class of students. This program is a collaborative venture involving the Division of Clinical and Metabolic Genetics at Sick Kids and the Department of Molecular and Medical Genetics at the University of Toronto.

**Division Head**
Dr. Rosanna Weksberg  

**Full-Time**  
Dr. David Chitayat  
Dr. Joe T.R. Clarke  
Dr. Annette Feigenbaum  
Dr. Stephen Meyn  
Dr. Marjan Nezarati  
Dr. Ahmad Teebi  
Dr. Sheila Unger

**Part-Time**  
Dr. Alan Berzen  
Dr. Karen Chong  
Dr. Leona Fishman

**Clinical Fellows**  
Dr. Koumudi Godbole  
Dr. Gustavo Maegawa  
Dr. Nicola Poplawski  
Dr. Julian Raiman  
Dr. David Skidmore

**Medical Genetics Residents**  
Dr. Fathiya Al-Murshedi  
Dr. Tawfeg Ben-Omran  
Dr. Sharan Goobie  
Dr. Linda Kim  
Dr. Bryan Lo  
Dr. Lynette Penney  
Dr. Joyce So
The Division of Clinical Pharmacology and Toxicology focuses on a wide range of drug-related issues in paediatrics.

The division is one of the largest and most active paediatric pharmacology programs internationally. Our major clinical activities include a consultation service, the Motherisk program (the counseling and information center for drug and other exposures during pregnancy and lactation), and the Ontario Regional Poison Information Center. The division is one of the two major training sites of the Royal College-accredited Clinical Pharmacology Residency program of the University of Toronto. Our research programs focus on drug metabolizing enzymes and their regulation, drug transporters, placental and mammary gland drug transport and metabolism, and reproductive toxicology and teratology, including fetal alcohol syndrome research.
The Division of Endocrinology continued to be highly active and productive clinically, educationally and in its research programs during the 2003-2004 academic year. Our Royal College-approved subspecialty program attracts applicants from all over the world. During this academic year, there were seven residents/fellows at different stages of their training.

The major foci of our clinical activities are in the following areas: (i) Diabetes: our comprehensive program for children and teens with type 1 diabetes provides ongoing care to almost 1,000 children and teens from diagnosis to transition to adult care; new initiatives to care for the increasing number of teens with type 2 diabetes; amplification of outreach activities; (ii) General Endocrinology: with particular emphasis in the areas of growth, thyroid disease, intersex conditions and reproductive health in young and adolescent females; (iii) Calcium: the Calcium-Bone and Osteoporosis Clinics provide care to increasing numbers of children with a wide variety of disorders of bone health; (iv) Gynaecology section: provides care to pre-teen and adolescent girls across a wide spectrum of disorders.

The research within the Division of Endocrinology has focused on the following areas: (i) prediction and prevention of type 1 diabetes: our group is involved in the multinational TrialNet and TRIGR study groups; (ii) implications of insulin resistance in children and adolescents; (iii) understanding of the factors affecting metabolic control and the early complications of diabetes; (iv) new technologies in diabetes care; (v) psychosocial and psychological outcomes in diabetes and other endocrine disorders.
Dr. Simon Ling
Clinician-Specialist, GI/Nutrition

Dr. Phil Sherman
Clinician-Scientist, GI/Nutrition

Dr. Denis Daneman
Clinician-Teacher, Endocrinology

Dr. Simon Ling
Clinician-Specialist, GI/Nutrition

Dr. Eve Roberts
Clinician-Scientist, GI/Nutrition

Dr. Paul Pencharz
Clinician-Scientist, GI/Nutrition

Dr. Stanley Zlotkin
Clinician-Scientist, GI/Nutrition

Dr. Stanley Zlotkin
Clinician-Scientist, GI/Nutrition
Division of GI/Nutrition

The Division of GI/Nutrition has a fully integrated program in paediatric clinical nutrition, luminal gastroenterology, hepatology and transplantation, making it one of a few in North America with total paediatric ‘GI-coverage’.

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

**Division Head**
Dr. Stanley Zlotkin

**Full-Time**
Dr. Peter Durie
Dr. Anne Griffiths
Dr. Nicola Jones
Dr. Simon Ling
Dr. Margaret Marcon
Dr. Vicky Ng
Dr. Paul Pencharz
Dr. Eve Roberts
Dr. Philip Sherman
Dr. Mary Zachos

**Part-Time**
Dr. Najma Ahmed
Dr. Glenn Benall
Dr. Carol Durno
Dr. Paul Kortan

**Cross-appointees**
Dr. Mary Corey
Dr. Jae Kim

**Clinical Fellows**
Dr. George Alex
Dr. Yaron Avitzur
Dr. Khalid Noli
Dr. Thomas Walters

**Research Fellows**
Dr. David Mitchell
Dr. Susanne Schibli
Dr. Justine Turner

**Residents/Subspecialty Residents**
Dr. Maisa Ayad
Dr. Hussain Ageel
Dr. Eric Benchimol
Dr. Erin Culbert
Division of Haematology/Oncology continued its rebuilding process during 2003-2004.

The full-time faculty now numbers 24; new physician recruits to the division’s haematology section include Dr. Suzan Williams and Dr. Leo Brandao; a major focus of both of these physicians will be clinical/research activities in the division’s very large thrombosis service. In September 2004, Dr. Paul Nathan (area of clinical/research interest – aftercare of children with cancer) and Dr. Lillian Sung (area of clinical/research interest – clinical trials and supportive care of children with cancer) will join the full-time staff in the division. Dr. Melvin Freedman retired from the division after 33 years of distinguished service to the division and Department of Paediatrics. Dr. Sheila Weitzman returned to the division in July 2005 after a most successful sabbatical in Europe where she worked at the Leiden Medical Center in The Netherlands and Australia.

At the beginning of 2004, Dr. Victor Blanchette was reappointed as Division Chief and Women’s Auxiliary Millennium Chair in Haematology/Oncology. Notable successes in the division included reappointment of Dr. Sylvain Baruchel as a Senior Associate Scientist, the appointment of Dr. Manuel Carcao as an Associate Scientist and the reclassification of Dr. Hans Hitzler as a Scientist in the Research Institute. Dr. Yigal Dror was promoted to the rank of Associate Professor, University of Toronto. Dr. Lillian Sung was the recipient of the 2004 Andrew Sass-Kortsak Award and Dr. Meredith Irwin received the Premier’s Research Excellence Award. The faculty continues to lead at the national level: in 2004 Dr. Blanchette was elected as Chair of the Council of Canadian Pediatric Hematology/Oncology Directors, Dr. David Malkin was appointed as paediatric member of the Advisory Council on Research, National Cancer Institute of Canada (NCIC), and Dr. Eric Bouffet, Head of the Paediatric Brain Tumour Program, was elected Chair of the Canadian Pediatric Brain Tumour Consortium.

Clinical activity in the division continues at a high level; approximately 300 new cases of cancer in children were registered in 2003-2004 which represents approximately 25% of all new paediatric cancer cases seen in Canada. The Institution completed a successful audit by the Children’s Oncology Group and continues to expand its activity in the area of clinical trials. Dr. Alberto Pappo is the new Principal Investigator for the Institution’s participation in the Children’s Oncology Group. The bone marrow transplantation section performed 81 transplants in children from Ontario and Eastern Canada over the year. An important development was approval for the creation of a dedicated nine bed haematology/oncology unit on Ward 7D and additional out-patient space on Ward 8C. These much needed additions will improve patient flow and care.

The education program continues to be very large and international in nature. Two haematology/oncology fellows, Dr. Chris Barnes and Dr. Uri Tabori, were awarded first prizes in the categories of clinical and basic science research in The Hospital for Sick Children Annual Paediatric Residents’/Fellows’ Research Competition. Dr. Melanie Kirby, a staff physician in the division, was selected by the divisional fellows as recipient of the 2004 Alvin Zipursky Teaching Award.

Future plans for the division include completion of recruitment of full-time staff physicians to the division; enhancement of divisional participation in ethics-approved clinical trials in paediatric cancer, haematology and stem cell transplantation; and support for growth and development of the division’s highly talented young physicians and researchers.
The Division of Immunology/Allergy and its division head Dr. Roifman are among the leaders in Primary Immunodeficiency diseases. Recently they have received recognition for their excellent national and international contribution for the diagnosis of primary immunodeficiency (PID) from the Jeffrey Modell Foundation. This American foundation chose the Canadian program as one of five sites world-wide and has provided annual funding for the diagnosis of PID.

Research in the division continues to flourish, by means of funding and publications. Of special note are the recent discoveries concerning additional novel types of primary immunodeficiency, the role of Eph receptor in the immune system and the establishment of gene therapy for PNP deficiency knockout mice. Furthermore, Dr. Roifman has been chosen to receive the Henry Friesen Award for 2004. This award recognizes a distinguished Canadian scientist who has demonstrated leadership in developing biomedical research at local, national and international levels. Teaching in our division is fully approved by the Royal College of Physicians and Surgeons of Canada. Residents and fellows from all over Canada and the world have benefitted from their studies at our division. Recently, two additional fellowship positions have been created in our division. Bayer is funding a fellowship for Canadian Immunologists interested in expanding their knowledge in primary immunodeficiency disease. Similarly, Tel Aviv University in Israel has agreed to sponsor a training program in Paediatric Allergy and Clinical Immunology for its graduates.
The Division of Infectious Diseases plays a leadership role in clinical, educational and research areas, locally, nationally and internationally. We are a resource for issues related to infectious disease outbreaks, including new and emerging infections such as SARS, infection control and the specialized areas of HIV, congenital infections, management of infectious complications of organ transplantation, and the ever-increasing problem of multi-drug resistant tuberculosis. Our TB clinic, designed for appropriate biocontainment, continues to expand.

Division members play a leading role in national and international epidemiological, clinical, and research advisory committees including committees of the US Centers for Disease Control and Prevention, the Infectious Diseases Society of America, the Canadian Pediatric Society and Health Canada, as well as consultant roles in Russia and the Bahamas.

In the area of education, our division continues to play a key role in the Infectious Diseases section of the Royal College of Physicians and Surgeons of Canada, and in many areas of Continuing Medical Education.

Our research initiatives are structured around themes that include host susceptibility and related factors and innovative antimicrobial and associated therapies. Specific research initiatives include multicentered Paediatric HIV studies related to maternal-to-child transmission and studies on new antiretrovirals, vaccine studies and research into the mechanisms of host susceptibility to viral infections. These infections include viral myocarditis, HIV and EBV-related post-transplant lymphoproliferative disease (PTLD) and encephalitis. Multicentered trials related to the diagnosis and prevention of infections in transplant patients are ongoing, as well as participation in national surveillance studies (IMPACT) and national collaborative Paediatric studies through the Paediatric Investigators Collaborative Network on Infections in Canada (PICNIC). Our research in Infection Control includes the clinical and molecular epidemiology of paediatric nosocomial infections.
The Division of Neonatology at The Hospital for Sick Children was pleased to welcome Dr. Patrick McNamara to the full-time faculty, but was sad to lose Dr. Boriana Parvez to the United States.

The three Level III NICUs at The Hospital for Sick Children, Mount Sinai Hospital and the Sunnybrook & Women’s College Health Sciences Centre continue to experience difficulties sustaining sufficient bed capacity to prevent maternal deferrals out of region.

The Neonatal Perinatal Fellowship Training Programme, fully accredited by the Royal College of Physicians and Surgeons of Canada, trains the largest number of subspecialty trainees in neonatology of any centre in Canada. Various members of the division have obtained new or continuing peer-reviewed research support for clinical and laboratory research in the last year. The major foci for research continue to be laboratory-based research on lung and gut development at The Hospital for Sick Children, perinatal epidemiology and clinical trials at Mount Sinai Hospital and Clinical Trials at the Sunnybrook & Women’s College Health Sciences Centre.
Clinically, the Division of Nephrology remains very active, particularly in the field of dialysis, and has expanded the Home Nocturnal Haemodialysis Program over the past year. Prospective monitoring of this program continues to be funded by a grant from the Change Foundation.

Similarly, the Renal Transplant Program remains busy, with increasing numbers of living-related donor kidneys, although a shortage of deceased kidney donors remains.

Developmental biology research into the developing kidney continues as a major focus in the laboratories of Dr. Norman Rosenblum and Dr. Tino Piscione. This year, Dr. Rosenblum was the recipient of the prestigious 2004 Aventis Pasteur Award for Excellence in Research, awarded by the Canadian Paediatric Society. The research arm of the division is further enhanced by the work of Dr. Lisa Robinson, whose research continues on the control of inflammation as related to renal transplant rejection.

This year, Nephrology Staff was awarded the 2004 Baxter Healthcare Prize for Research in Paediatric Dialysis, presented at the 15th Annual Pediatric Dialysis Symposium and 24th Annual Dialysis Conference in San Antonio, Texas.

The Nephrology Training Program, which is accredited by The Royal College of Physicians and Surgeons of Canada, enrolled five trainees during the last academic year, of whom four continue in our program to pursue further clinical and research training, while one has returned to his homeland to assume a consultant position.
Division of Neurology

The major foci of the clinical activities of the Division of Neurology are epilepsy, stroke, headache, neurometabolic disease, neuromuscular disease, sleep disorders, movement disorders, multiple sclerosis, autism, developmental disorders and functional neuroimaging.

The Neurology Division has a Royal College accredited training program in Child Neurology as well as postdoctoral training programs in epilepsy, stroke, and developmental paediatrics. The latter is in conjunction with the Bloorview MacMillan Children's Centre. In addition, there are a number of graduate students and postdoctoral fellows in clinical neurophysiology and molecular and cellular neurobiology. The research foci of the Neurology Division is epilepsy (both clinical and basic research), magnetoencephalography, stroke, dyslexia, autism, burden of disease and quality of life, attention deficit disorder/hyperactivity, muscular dystrophy, multiple sclerosis, fatty acid oxidation disorders, and molecular and cellular neurobiology.
Division of Paediatric Emergency Medicine

The Emergency Department at The Hospital for Sick Children provides acute care to children who are ill or who have been injured. We are both the primary care centre for children in Toronto, plus the tertiary referral centre for the GTA, in addition to being the designated Paediatric Trauma Centre for the GTA.

Over the last year, we have worked with Toronto EMS, the CCU and the NICU at Sick Kids to develop a paediatric transport system for the GTA which will be a vital component to the provision of care to acutely ill or injured children. Three new full-time staff have joined the division – Dr. Angelo Mikrogianakis, Dr. Amina Lalani and Dr. Shauna Jain.

The division has an active three-year academic fellowship program. The Royal College of Physicians and Surgeons has recently accredited our fellowship program. In addition, we have a number of clinical departmental fellows from around the world spending a year with us, further developing their paediatric emergency medicine skills. The division continues to run Paediatric Life Support Courses (PALS or APLS). We also have a well-developed half-day of educational activities for trainees and all health care providers in the Emergency Department. In the fall of 2004, the division will be launching the first two-day Paediatric Emergency Medicine Update.

Research in the division remains clinically focused, covering a wide range of topics from respiratory disease acute care management, orthopaedic ankle injuries, pain and sedation, to drug errors. An increase in clinical research activities has resulted. Research done within the division continues to be presented nationally and internationally with publications in peer-reviewed journals. Additional clinical investigators have been recruited and will be joining the division in 2004-2005.
Dr. Jeremy Friedman, who had previously been the Clinical Director, was appointed Division Chief beginning in April of 2004. The clinical programs of the Division of Paediatric Medicine provide care to children both inside and outside of the hospital.

The Paediatric Medicine In-patient Unit comprises three wards and is the biggest service in the hospital with an average of 50-60 patients cared for on a daily basis. Many children also attend Ambulatory Clinics in Dermatology, Paediatric Medicine and Suspected Child Abuse and Neglect (SCAN). In addition, over 100 part-time faculty participate in the Section of Community Paediatrics.

Our faculty members participate in the education of trainees at all levels, including nurse practitioners, medical students, paediatric residents and fellows. Clinical fellows have pursued training in paediatric medicine, paediatric dermatology and child maltreatment. In addition, two Paediatric Medicine academic fellows are enrolled in post-graduate training in Clinical Epidemiology. This year’s Awards Day Celebration recognized Dr. Stacey Bernstein as runner-up and Dr. Sheila Jacobson as winner of the RHA Haslam Preclerkship Teaching Award; Drs. Robert Hilliard and Eddy Lau as runners-up and Dr. Hartley Garfield as winner of the Clerkship Teaching Award; Drs. Michael Weinstein and Robert Hilliard as the runners-up for the Harry Bain Teaching Award; Dr. Michael Peer as the runner up and Dr. Norman Saunders as the winner of the Marvin Gerstein Teaching Award; and Dr. Sanjay Mahant as the winner of the Junior Faculty Clinical Award for Excellence in Paediatric Medical Care.

Divisional research activities are broad and range from studies of the management of common paediatric problems, assessment of quality of life in developmentally delayed children, evaluation of the hospitalist model, and injury prevention. Members of the division have supervised residents, fellows, and graduate students, presented work at national and international meetings, and published in high-impact peer-reviewed clinical journals. Dr. Catherine Birken (supervisors: Drs. Colin Macarthur, Patricia Parkin, Teresa To) and Dr. Trenna Sutcliffe (supervisor: Dr. Patricia Parkin) tied for first place in the Fellow’s Poster Competition at the Annual Residents and Fellows Research Day. Dr. Catherine Birken won the Annual Residents & Fellows Research Competition in Winnipeg, Manitoba, in May 2004.
Division of Respiratory Medicine

The Respiratory Medicine Program provides comprehensive care for the full range of paediatric pulmonary disease. Overall clinical responsibility is assumed for children with complex asthma, cystic fibrosis, interstitial lung disease, primary ciliary dyskinesia and chronic respiratory insufficiency in infancy due to prematurity and/or congenital malformations. We also provide consultation support for the hospital in all areas of paediatric respiratory disease.

We maintain an ongoing follow-up program for children with chronic respiratory insufficiency, who are technologically dependent. The Sleep Laboratory (the only dedicated paediatric sleep laboratory in Ontario) provides ongoing follow-up in care for children with sleep apnea, sleep-related respiratory insufficiency, as well as being affiliated with the Divisions of Neurology and General Paediatrics in caring for children with complex neuro-behavioural sleep disorders. The division is part of the Toronto Lung Transplantation Program, providing pre- and post-transplantation care for children with end-stage lung disease. The division also provides a flexible bronchoscopy program in the diagnosis of children with interstitial lung disease, anatomical abnormalities and infections in the immunocompromised host.

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

The major research foci include clinical and basic science studies in aerosol therapy and exercise physiology, asthma, the molecular biology of electrolyte transport in the lung epithelium, novel genes in lung development and the NIH Childhood Asthma Management Program Continuation Study, as well as a number of smaller clinical studies. We are currently working with the WHO in developing a measles vaccine that can be given by aerosol in developing countries.
Division of Rheumatology

The Division of Rheumatology provides comprehensive care for children with rheumatic diseases. The ambulatory clinics have approximately 5,000 patient visits per year at The Hospital for Sick Children and Bloorview MacMillan sites and the outreach clinic in Sudbury. In addition to the general rheumatology clinics, there are unique multidisciplinary subspecialty clinics for children with dermatomyositis, morphea, systemic-onset JRA and systemic lupus erythematosus.

The division makes extensive use of the medical day care unit, where children receive joint injections under anaesthesia, therapeutic infusions or undergo investigations, which would otherwise require inpatient admission. An increasing number of children have benefitted from treatment with biologic agents on the medical day care unit.

The division has the largest paediatric rheumatology fellowship training program in North America and is fully accredited by the Royal College of Physicians and Surgeons of Canada. Graduates have done extremely well in obtaining academic placements across Canada and around the world and trainees have been productive in the research arena.

Research foci include the development of trial design for the study of rare diseases, outcome, prognosis and treatment studies in juvenile arthritis, SLE, neonatal lupus, scleroderma, dermatomyositis and vasculitis. Our centre has been the lead centre for a number of international treatment trials for JRA. Basic research focuses on the immunopathogenesis of Kawasaki disease using an animal model.

Dr. Shirley Tse was appointed as a full time staff rheumatologist in 2003.

Awards and Honours

Staff received the following awards:

Dr. Rayfel Schneider

• The Department of Paediatrics, The Hospital for Sick Children, Richard Rowe Award for Clinical Excellence, June 2004

Brian M Feldman

• Canada Research Chair Tier II: Canadian Institutes of Health Research

Dr. Ronald Laxer

• Shiroky Award, 2004 (Laurentian Rheumatology Conference)

Dr. Rae Yeung

• Canadian Rheumatology Association Young Investigator Award, February 2004
• The Arthritis Society/Canadian Institutes of Health Research New Investigator Award

Fellows received the following awards:

Dr. Susanne Benseler

• American Academy of Pediatrics Section on Rheumatology, 2003 Earl J. Brewer Research Travel Grant Award for abstract: “Primary CNS Vasculitis in Children”

Dr. Christina Boros

• Second Place, Department of Paediatrics Resident and Fellow Research Competition, May 2004

Dr. Jonathan Akikusa

• The Hospital for Sick Children Humanitarian Awards – Family Advisory Committee Award Winner, May 2004

Dr. Sandrine Compeyrot

• Young Investigator Award, World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Paris, 2004
The following faculty members have a primary academic appointment to the Department of Paediatrics while they may not be affiliated with a specific division:

Dr. Michael Balthazor
Dr. Marcia Barnes
Dr. Mary Corey
Dr. Patricia Harper
Dr. Christine Harrison
Dr. Jim Hu
Dr. Tom Humphries
Dr. Tilman Humpl

Dr. Jamie Hutchison
Dr. Amira Klip
Dr. Lorelei Lingard
Dr. Maureen Lovett
Dr. Molly Malone
Dr. Hiroshi Otsubo
Dr. Gail Otulakowski
Dr. Elizabeth Pang
Dr. Martin Post

Dr. Joanne Rovet
Dr. Bonnie Stevens
Dr. Margot Taylor
Dr. Teresa To
Dr. Ethel Ying
Dr. Shi-Joon Yoo
Dr. Nancy Young
Dr. Randi Zlotnik-Shaul
Bloorview MacMillan Children’s Centre

Bloorview MacMillan Children’s Centre, a fully affiliated Academic Health Sciences Centre, offers both inpatient and outpatient developmental and rehabilitation services to the children and families of greater Toronto. It also provides tertiary services in paediatric rehabilitation when unavailable locally to the Province of Ontario.

All of our medical staff have appointments in the Division of Neurology, Department of Paediatrics. Our developmental paediatric fellowship training program was submitted by the University of Toronto to the Royal College of Physicians and Surgeons of Canada for final accreditation for the fall of 2004. The developmental paediatric fellowship training program is a shared program between Bloorview MacMillan Children’s Centre and the Child Development Centre at The Hospital for Sick Children.

New Staff

• July 2003 – Dr. Tamarah Kagan-Kushnir, developmental paediatrician, joined our staff.

Grants


Use of creatine in DMD patients pre-op to see if it decreases time in ICU and need for increased ventilatory support. Kobayashi J, Hayes J ($9,800)


Faculty

Golda Milo-Manson, Chief of Staff
Doug Biggar
Darcy Fehlings
Tommy Ho (locum April-December 2004)
Carolyn Hunt
Tamarah Kagan-Kushnir
Anne Kawamura
Tara Kennedy
Jeff Kobayashi
Gilbert Miller
Peter Rumney
Jonathan Tolkin

Developmental Fellows

Siobhan Gallagher
Anita Jethwa
Elizabeth Jimenez
Alvin Loh
Trenna Sutcliffe
Administrative Staff

We would like to thank the following administrative staff for their continued efforts and contributions to the Department of Paediatrics:

**Adolescent Medicine**
- Ursula Pajak
- Rhonda Smith
- Burnett Wint

**Cardiology**
- Teresa Angileri
- Sandra Brisebois
- Paula Capela
- Julie Dean
- Esther Delea
- Susan Jessop
- Iris Kehler-Reimer
- Shloka Mirchandaney
- Andrea Morris
- Ruth Taylor
- Rooma Vaidya
- Shirley Wang

**Clinical Pharmacology**
- Niki Balamatsis
- Carmella Fichman
- Leah Moscato

**Paediatric Emergency Medicine**
- Jo Azarraga
- Marika Bishop
- Diana Cristea
- Jennifer Dobbin
- Andrea Giggey
- Wendy Johnston
- Ritsa Ligonis
- Sandra Miller
- Majda Savaglio
- Andrew Serrano

**GI/Nutrition**
- Gail Bratby
- Chona Callejo
- Shemina Hemraj
- Margaret Johnson
- Joanne McHugh
- Lilatool Shakur

**Haematology/Oncology**
- Bibi Ali
- Ingrid Argiropoulos
- Barbara Black
- Sandra Carbone-Walker
- Roxanne Francis
- Connie Grillo
- Lucy Holford
- Susan Marteliera
- Kathleen McDermott
- Silvia Muir
- Shanita Singh
- Annabel Sousa
- Pauline Walsh

**Immunology/Allergy**
- Sandra Mendonca
- Stephanie Pacheco
- Linda Quintal

**Neonatology**
- Sonia Dos Santos
- Frances Lewis
- Sharon Neish
- Halleh Rezvany

**Nephrology**
- Dana Debernyj
- Shelley McGrath
- Judith McNicoll
- Juliet Rodrigo

**Neurology**
- Zahida Dhanji
- Libby Duke
- Harriette Ghosh
- Maureen Hodge

**Paediatric Medicine**
- Tiziana Altobelli
- Jennifer Bennie
- Susan Britton
- Maha Chaltaf
- Amina Kambalia
- Marg Mathar
- Josie Marcatonio
- Daffodil Morrison
- Nike Onabajo
- Kathryn Robertson

**Respiratory Medicine**
- Jennifer Chay
- Victoria Snell

**Rheumatology**
- Christine Harrison
- Shona Magee
- Susan Wesson

**Department of Paediatrics**
- Anna Capizzano
- Keara Emmett
- Sharon MacMillan
- Diva Mendes

**Medical Education**
- Mary Antonopoulos
- Sandra Layno
- Parviz Manji
- Brenda Rau
- Jan White

**Paediatric Consultants**
- Carol Ellis
- Sharda Ramsayack
- Bernard Singh
- Jenette Singh
- Meena Singh
- Shelley Todd
Paediatric Housestaff

PGY 4s
Chief Residents
Dr. Eyal Cohen
Dr. Alvin Loh

Associate Chief Residents
Dr. Zaid Al-Harbash
Dr. Sarah Barker
Dr. Ari Bitnun
Dr. Emma Cory
Dr. Tamar Flanders
Dr. Debbie Fruitman
Dr. Steve Greenway
Dr. Anita Jethwa
Dr. Saba Merchant
Dr. Carolyn Taylor

General Paediatrics
Dr. Jay Dahman

PGY 3s
Dr. Hosanna Au
Dr. Chantelle Barnard
Dr. Matthew Crystal
Dr. Tara Gelman
Dr. Jane Healey
Dr. Joanna Holland
Dr. Ronik Kanani
Dr. Susan Koshy
Dr. Alexo Muise
Dr. Angela Orsino
Dr. Anwar Sallam
Dr. Peggy Wong

PGY 2s
Dr. Ibraheem Abosoudah
Dr. Fatma Al-Jasmi
Dr. Abdulla Al-Junaibi
Dr. Reshma Amin
Dr. Rakesh Bhattacharjee
Dr. Zia Bismilla
Dr. Vicky Breakey
Dr. Daniel Flanders
Dr. Elizabeth Gold
Dr. Megan Harrison
Dr. Elana Lavine

PGY 1s
Dr. Rabah Mahmoud
Dr. Melissa Parker
Dr. Adam Rapoport
Dr. Dhena Tennankore
Dr. Tony Truong

Dr. Dana Al-Nabhani
Dr. Khalfan Alsenaidi
Dr. Nirit Bernhard
Dr. Michaela Cada
Dr. Sarah Cheang
Dr. Sloane Freeman (Hechter)
Dr. Linda Hiraki
Dr. April Kam
Dr. Fotini Kavadas
Dr. Sanjeev Luthra
Dr. Jonathan Maguire
Dr. Shaun Morris
Dr. Sharon Naymark
Dr. Catharine Walsh
Paediatric Academic Multi-Organ Transplant Program (PAMOT)

PAMOT is a multidisciplinary program encompassing individuals from multiple Divisions in the Departments of Paediatrics, Surgery, Nursing, Pharmacy, and Professional Health Services. Current transplants encompass heart, kidney, lung, liver, and small bowel.

The program is focused on providing state-of-the-art care for children awaiting organ transplant, from the time they are identified as needing a transplant, through the peri-operative period, and continuing for the long-term management following successful transplantation. Excellence in the provision of care is ensured by an active educational program, a training program for emerging transplant physicians, and advancing knowledge in the field by promoting and encouraging fundamental, translational, and patient-based research activities. PAMOT is one of the largest paediatric transplant programs in North America; in the past year, 52 children received a solid organ transplant at The Hospital for Sick Children: 23 kidneys, 13 livers, 2 small bowels, 13 hearts, and 1 lung. Increasingly, living donors are being employed for kidney, and liver transplants in the paediatric setting as waiting time on the deceased donor list continues to increase every year.

The training of a cadre of fellows who have been successful in obtaining academic appointments globally is another achievement of the PAMOT program. Current trainees continue to reflect the international nature of the clinical fellowship program and the multi-disciplinary nature of transplantation: Ruth Armano (Canada, critical care), Fernando Gonzales (Argentina, infectious diseases), Any Pfeiffer (Brazil, paediatrics), Lilian Teixeira (Brazil, cardiology). When the international trainees return to their country of origin to assume faculty positions they not only will be able to provide care for children undergoing organ transplantation, but they serve as international ambassadors for The Hospital for Sick Children, the University of Toronto, and Canada.

Current research activities include basic and clinical research relevant to optimizing outcomes following organ transplant. As example: study of tolerance in infant ABO incompatible heart transplant (Dr. Lori West), leucocyte trafficking in allograft rejection (Dr. Lisa Robinson), prevention of EBV induced PTLD (Dr. Upton Allen). Many individuals are active participants in the major international clinical research groups in paediatric transplantation: North American Pediatric Renal Transplant Cooperative Study, Studies of Pediatric Liver Transplantation, Pediatric Heart Transplant Study Group.

Resources required to successfully maintain an active organ transplant program are considerable. PAMOT continues to play a large role in advocating for paediatric transplantation at the provincial and national level.

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**Director**  
Dr. Philip M. Sherman

**Clinical Director**  
Dr. Diane Hébert
Acute Care Transport Services (ACTS)

The vision of Acute Care Transport Services (ACTS) at Sick Kids is to optimize patient outcomes through the provision of excellence in transport medicine. ACTS works with internal stakeholders through the ACTS Advisory Committee, whose membership includes program and medical leadership from the Divisions of Paediatric Emergency Medicine (PEM), Cardiology, Critical Care, Neonatal Intensive Care, Paediatric Medicine and representation from the Ontario Children’s Health Network.

Acute Care Transport Services in its entirety is comprised of several components that oversee or are involved with the following:

• **The ACTS Team**, responsible for transporting unstable neonates and children less than two years of age and attending high-risk deliveries at referral centres. This team also handles all high-risk intramural transports from the Sick Kids NICU. In the 2003-2004 fiscal year, the ACTS Team performed 904 transports to referring hospitals (106 of which were paediatric transports) and an additional 285 intramural transports of unstable neonates.

• **Physician coverage for all unstable patients** through the provision of telephone medical advice and medical assistance on transports utilizing ACTS transport fellows, and fellows from the Divisions of PEM and Critical Care.

• **Collaboration with Critical Care Paramedics** from Ontario Air Ambulance Base Hospital Program (OAABHP) on both air and land ambulance transports particularly involving patients between two and nineteen years of age.

• **The analysis and development of policy and system issues** pertaining to neonatal and paediatric transport internally, locally (within the Greater Toronto Area Child Health Network) and across Ontario (through provincial networks in perinatology, paediatric critical care, and transport) with a focus on quality improvement initiatives.

To monitor our effectiveness, our program goals and activities are carried out and measured under four categories: Clinical Performance & Outcomes; Quality of Worklife & Organizational Learning; System Integration & Community Responsiveness, and Consumer Relations & Family Satisfaction.

**Clinical Performance & Outcomes**

This year, the ACTS telephone hotlines (located in both the NICU and CCU) fielded requests for transport that resulted in a total of over 1000 neonatal and paediatric transports (900 of which were done by the ACTS Team). ACTS Team members can provide appropriate and timely care in the field through utilization of over twenty medical directives and with access to immediate on-line paediatric medical and sub-specialty expertise when needed. Physicians are also available to provide physical back-up to the teams at all times.

The establishment of standards and practices for transport were developed and implemented through collaborative efforts between Acute Care Transport Services, GTA CHN partners, and the members from provincial Emergency Health Services.

**Medical Director**
Dr. Hilary Whyte

**Director**
Alison Quigley

**Research Director**
Dr. Patrick McNamara
Our achievements this year include:

• Improved transport processes for paediatric patients requiring intensive care (see Standards for Paediatric Transport – GTA CHN publication (2003))

• Development of formal morbidity and mortality review frameworks

• Development of a transport database and reports that monitor our service performance against our program targets (to be launched September 2004)

• Implementation of new processes and system for paediatric transportation including appointment of a clinical assistant in paediatric transport for a one year period (commencing July 2004)

Quality of Worklife & Organizational Learning

The care we provide is delivered within the context of our Collaborative Practice Model, a model that strives to meet patient needs through the combined skill of physicians, nurses and respiratory therapists with expertise in transport medicine. New this year is our enhanced competency-based education program that includes modules in transport medicine combined with education on the complexities in caring for sick newborns and children. All new RN and RRT recruits are certified ACTS Team members following completion of this program. In the 2003-2004 fiscal year, eight new staff were hired to assist us in providing our transport service mandate. Clinical competencies have also been developed for all transport physicians and trainees. Also new this year is the introduction of an EMS and Transport rotation for Paediatric Emergency Medicine fellows.

ACTS Research Initiatives

Dr. Patrick McNamara was hired as staff Neonatologist and staff physician in transport medicine having completed two years as a “fellow” with the ACTS team (July 2001 - 2003). His research training and background enabled him to achieve his mandate to enhance research activities within ACTS and with our partners in CCU, Cardiology, and PEM. The successful completion of a number of studies has resulted in the presentation and publication of the abstracts listed at the end of this report. Publication in peer reviewed journals is anticipated following their submission.

A variety of other observational and interventional studies on transport are underway. The expectation that every team member and all ACTS transport physicians are engaged in a research project for which they are primarily responsible has led to a proliferation of studies on transport.

System Integration & Community Responsiveness

Our goal in ACTS is to partner proactively with our community and collaborate with other stakeholders to achieve a seamless transport system for newborns and paediatric patients. Information about our scope of services and our contact information can be found on our new website at www.sickkids.ca/acts/.

Following our work last year with our GTA CHN partners on standards and protocols for safe transport of neonatal and paediatric patients, ACTS has taken the lead on the development of standardized documentation tools for both acute neonatal and paediatric patients. Represented by Dr. Hilary Whyte and Alison Quigley on various GTA CHN maternal and paediatric task forces, ACTS has provided support and responses to issues for transport in the GTA. Membership on the CHN evaluation and internal review projects over the past year has also provided opportunities to influence and improve the system.

We continue to chair the Provincial Neonatal Transport Subcommittee of the Ontario Perinatal Partnership and meet twice a year with the Neonatal Transport Directors and teams to address issues which may hamper the provision of a seamless system for tertiary neonatal transportation across the Province.
Through the Provincial Paediatric Critical Care Network, and under the direction of the Specialized Paediatric Coordinating Council, ACTS has been actively involved with the provincial initiative to create an enhanced model of care for paediatric transport. As we learn more about transport and how we can improve the system for paediatric patients, we have enhanced our collaboration with emergency health services to partner in our training and service delivery elements. A newly created provincial planning task group has been struck to develop a cohesive implementation strategy for a provincial model of transport with a focus on meeting the medical transport needs of paediatric patients.

ACTS coordinates all clinical placements for paramedic paediatric education for both Toronto EMS and the OAABHP. Paramedics from both organizations at the advanced care paramedic (ACP) and critical care paramedic (CCP) levels meet their paediatric clinical objectives with the assistance of interdisciplinary preceptors from the CCU, the Emergency Department, the OR, and the IV Team. Last year, approximately 100 medics took part in either initial learning or CME opportunities here at Sick Kids.

Consumer Relations & Family Satisfaction

ACTS strives for positive interactive relationships with families and stakeholders and endeavours to maintain a strong consumer satisfaction focus that is adaptive to the changing needs and expectations of our internal and external community. To this end, numerous outreach education and information sessions have been delivered to hospital practitioners within our region. These forums serve as a two-way venue that optimizes learning from both the sending and receiving hospital perspectives.

This coming year will see ACTS focus on the area of satisfaction, particularly assessing and improving communication with our community partners.

Awards and Honours

2003
“Transport Teams: Ensuring Intensive Care during transfer for Critically ill Children in the GTA” Ontario Hospital Association 2003 Best Practices Display Award

2004
Laique FR, Whyte HE, McNamara PJ. Inodilator therapy in severe Persistent Pulmonary Hypertension of the Newborn (PPHN)! Does intravenous Milrinone improve oxygenation? 4th University of Toronto Neonatal/Perinatal Fellows Research Day

1st place Best Poster Award

Johnson M, Quigley A, Whyte H, Muang-In S, McNamara PJ, Farquahar S, Mazza C: Paediatric Transport Teams: Ensuring Intensive Care during transfer for Critically ill Children in the GTA. Ontario Hospital Association 2004 Best Practices Display Award (Poster)
Paediatric Grand Rounds

The Department of Paediatrics completed another exciting and successful Grand Rounds program for the 2003-2004 academic year. Paediatric Grand Rounds in the Department of Paediatrics at the University of Toronto is intended to bring the world’s best clinicians, scientists and educators to The Hospital for Sick Children (Sick Kids).

The major goal of the series is to allow the faculty, fellows, residents and students to experience state-of-the-art analyses and research on topics in paediatric medicine. As such, our committee has worked hard to create a program which includes world-renowned speakers to address a wide variety of paediatric topics. All presentations focus on excellence in paediatric clinical care and recent scientific advances.

The overall Grand Rounds program is organized by a committee that consists of Debbie Katzman, MD, Alan Coates, MD, Saul Greenberg, MD, Ron Laxer, MD, Johanna Rommens, PhD, Rayfel Schneider, MD, Phil Sherman, MD, and our two paediatric chief residents Eyal Cohen, MD and Alvin Loh, MD.

Some of the highlights of this year’s program included Dr. Lisa M. Guay-Woodford, Professor of Medicine and Pediatrics and Chief of the Division of Genetics and Translational Medicine at the University of Alabama at Birmingham who was invited to be the 2003 Robert H. Haslam Lecturer. She gave an outstanding presentation on identifying the genetic factors involved in the pathogenesis of autosomal recessive polycystic kidney disease. Dr. Judah Folkman, the Andrus Professor of Pediatric Surgery and Professor of Anatomy and Cellular Biology at Harvard Medical School and Children’s Hospital in Boston was invited to present his groundbreaking work on the mechanisms of angiogenesis and the various investigations that have led to clinical trials of angiogenesis inhibitors. Dr. Hugh O’Brodovich, our Chairman and Paediatrician-in-Chief, gave an excellent presentation on the pathogenic mechanisms leading to pulmonary edema and how this edema is cleared from the airspaces. Professor Michael Levin, Professor of Paediatrics, Faculty of Medicine and the Head of the Department of Paediatrics at the Imperial College of Medicine in London gave a brilliant overview of his work on the pathophysiology of meningococcal sepsis. The Hospital for Sick Children was honoured to host the CIHR Lou Siminovitch Lecturship this past year. The CIHR Lou Siminovitch Lectureship was created in 1995 by the MRC as part of its 35th anniversary celebrations and in recognition of Lou Siminovitch’s (University Professor Emeritus, Department of Medical Genetics) outstanding career as a clinician-scientist. We were fortunate to have Dr. Todd Golub, Director of the Cancer Genomics Program at the Whitehead Institute Center for Genome Research, the Charles A. Dana Investigator in Human Cancer Genetics at the Dana-Farber Cancer Institute and an Associate Professor of Pediatrics at Harvard Medical School visit the Hospital for Sick Children. Dr. Golub’s presentation focused on the use of gene expression data in mapping cancers of the blood, marrow and solid tumours. He discussed how this promises to facilitate the development of improved strategies for the diagnosis and treatment of cancer. In addition to these presentations, our faculty Drs. Ford-Jones, Read and Wilson presented an extraordinary clinical pathological conference and our associate residents presented interesting clinical cases from the paediatric service. This is but a glimpse of a few of the highlights of our 2003-2004 program.

We are pleased to report that the Paediatric Grand Rounds Calendar is posted on the The Hospital for Sick Children homepage. The site displays monthly grand rounds’ dates, speakers, topics and hosts.

Grand Rounds will continue to be held every Wednesday from 9:00 am to 10:00 am in the Main Auditorium at The Hospital for Sick Children. The Department of Paediatrics Grand Rounds Committee would like to acknowledge the help and support of the following people, to whom we are very grateful: The Paediatric Executive Committee, Burnett Wint, Division of Adolescent Medicine, Marice Hart and Keara Emmett, The Department of Paediatrics, and Frank Ferrari and Sam Mendolia, from the Audio-Visual Department at The Hospital for Sick Children.
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<tr>
<th>DATE</th>
<th>SPEAKER</th>
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<tr>
<td>July 9</td>
<td>Drs. Anne Murphy and Elizabeth Jiminez</td>
<td>22q11 Deletion Syndrome</td>
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<td>Child Development Centre</td>
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<td>July 16</td>
<td>Drs. Susanne Schibli, Justine Turner and Yaron Avitzur, Division of GI/Nutrition</td>
<td>Transaminitis to Transplantation: an update on Fulminan: Hepatic Failure</td>
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<td>July 23</td>
<td>Drs. Jeff Burzynski and Afrothite Kotsakis</td>
<td>Surviving Septic Shock in 2003 (or not…)</td>
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<td>Critical Care Medicine</td>
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<td>July 30</td>
<td>Drs. Sanjay Mehta, Shannon MacPhee and Rahim Valani, Division of Paediatric Medicine</td>
<td>The Ouchless ER: Issues in Paediatric Sedation</td>
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<td>August 6</td>
<td>Drs. Jonathan Akikusa, Abdullah Al-Sonbul and Nicole Johnson, Division of Rheumatology</td>
<td>Kawasaki Disease: Unusual Presentation and Some Pitfalls of Treatment</td>
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<td>August 13</td>
<td>Dr. Marcela Hernandez</td>
<td>The West Nile Virus: What the Paediatrician Needs to Know</td>
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<td>Division of Infectious Diseases</td>
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<td>August 20</td>
<td>Drs. Melinda Nolan and Erick Sell</td>
<td>EEG: What is it Good For (and Not So Good For)?</td>
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<td>Division of Neurology</td>
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<td>August 27</td>
<td>Drs. Patrick McNamara, Sataporn-Muang In, Kerry Morgan and Annette Martens</td>
<td>New Horizons in Retrieval Stabilization and Transportation</td>
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<td>of Critically Ill Infants by The Hospital for Sick Children Acute Care Transport Services</td>
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<td>September 3</td>
<td>No Grand Rounds</td>
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<td>September 10</td>
<td>Lisa M. Guay-Woodford, MD</td>
<td>Autosomal Recessive Polycystic Kidney Disease:</td>
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<td></td>
<td>Professor of Medicine</td>
<td>Survival Myths, Clinical Complexities, and the Impact of Recent Research</td>
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<td></td>
<td>Director, Division of Genetics and Translational Medicine University of Alabama</td>
<td>The 2003 Robert H. Haslam Lecture</td>
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<td>September 17</td>
<td>Marcellina Mian, MD</td>
<td>Beyond Problem-Based Learning</td>
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<td>Paediatrician and Acting Director, SCAN Program Director, Undergraduate Medical Education</td>
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<td>The Hospital for Sick Children</td>
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<td>October 24</td>
<td>Gregory A. Grabowski, MD</td>
<td>Gaucher disease: A Tale of Mice and Men</td>
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<td>Professor of Pediatrics and Molecular Genetics</td>
<td>Jacob’s Ladder Lectureship</td>
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<td>Biochemistry and Microbiology</td>
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<td>Cincinnati Children’s Hospital Medical Center Cincinnati, Ohio</td>
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<td>October 1</td>
<td>Judah Folkman, MD</td>
<td>Lessons From Children About Anti-angiogenic Therapy</td>
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<td>Harvard Medical School</td>
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<td>October 8</td>
<td>Associate Chief Residents</td>
<td>Cases from the Paediatric Services</td>
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<td>October 15</td>
<td>Stephen Berman, MD</td>
<td>Pediatric Primary Care Case Management</td>
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<td>Professor of Pediatrics</td>
<td>Strategies in Developing Countries</td>
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<td>University of Colorado Health Science Centre</td>
<td>The 3rd Annual Conference on</td>
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<td>Denver, Colorado</td>
<td>Children and Youth New To Ontario</td>
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| October 22 | George R. Buchanan, MD  
Professor of Pediatrics  
Distinguished Chair in Pediatric Oncology and Hematology  
The University of Texas  
Southwestern Medical Center at Dallas | Current Advances in the Treatment of Sickle Cell Disease  
The 3rd Annual Laski Lectureship |
| October 29 | Andrew Bush, MD, BS (Hons), MA, FRCP, FRCPCH  
Professor of Paediatrics  
Director of the Academic Department of  
Paediatrics National Heart and Lung Institute  
Honorary Consultant Paediatric Chest Physician  
Royal Brompton Hospital, United Kingdom | Severe Asthma: One Disease or Many? |
| November 5 | Meir Steiner, MD  
Professor, Psychiatry and Behavioural Neurosciences  
McMaster University, Hamilton, Ontario  
Mother Risk Update 2003 | Diagnosis and Treatment of Perinatal Mood Disorders |
| November 12 | Douglas S. Diekema, MD, MPH  
Associate Professor of Pediatrics  
Adjunct Associate Professor, Medical History and Ethics  
University of Washington School of Medicine  
Director, Medical Ethics, Children’s Hospital  
and Regional Medical Center  
Seattle, Washington | Just How Tolerant Should We Be?: Vaccine Refusals, the Best Interests of Children, and Community Good |
| November 19 | Todd Golub, MD, PhD  
Associate Professor of Pediatrics, Harvard Medical School  
Charles A. Dana Investigator, Dana-Farber Cancer Institute  
Director, Cancer Genomics, Whitehead/MIT Center for Genome Research  
Newton, Massachusetts | Genomic Information and Cancer  
2003 CIHR Lou Siminovitch Lecture |
| November 26 | Steven H. Abman, MD  
Professor of Pediatrics  
Pediatric Pulmonary Medicine  
The Children’s Hospital, Denver, Colorado | Role of Nitric Oxide in the Pathophysiology and Treatment of Neonatal Lung Disease  
The 2nd Annual Barry Smith Lectureship |
| December 3 | Associate Residents | Cases from the Paediatric Service |
| December 10 | Peter Durie, MD  
Professor of Paediatrics  
Division of Gastroenterology and Nutrition  
The Hospital for Sick Children and University of Toronto | Understanding of the Genetic Basis and Clinical Features of Shwachman Diamond Syndrome: A Multifaceted, Multidisciplinary Success Story |
| December 17 | Holiday Presentation |  |
| December 24 | No Grand Rounds |  |
| December 31 | No Grand Rounds |  |
| January 7  | Robert A. Colbert, MD, PhD  
Associate Professor of Pediatrics and Associate Director  
William S. Rowe Division of Rheumatology  
Cincinnati Children’s Hospital  
Associate Director, Physician-Scientist Training Program  
University of Cincinnati College of Medicine  
Cincinnati, Ohio | Pediatric Rheumatic Disease: Will Microarrays Answer Macro-questions?  
Abe Shore Lecture |
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<tr>
<td>January 14</td>
<td>David Gozal, MD</td>
<td>Snore the Alarm: The NeuroBehavioral Consequences of Sleep-Disordered Breathing</td>
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<td>Professor and Children’s Foundation Chair</td>
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<td>Vice Chair for Research</td>
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<td>Director, Kosair Children’s Hospital</td>
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<td>Research Institute</td>
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<td>Director, Kosair Children’s Hospital</td>
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<td>and Apnea Center Department of Pediatrics</td>
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<td>University of Louisville School of Medicine</td>
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<td>Louisville, Kentucky</td>
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<td>January 21</td>
<td>Hugh O’Brodovich, MD, FRCP(C)</td>
<td>Airspace Fluid Clearance: Its Role in RDS and recovery from Pulmonary Edema</td>
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<td>Chairman and Professor of Paediatrics,</td>
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<td>University of Toronto</td>
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<td>Paediatrician-in-Chief, The Hospital for</td>
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<td>Senior Scientist, Research Institute</td>
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<td>R.S. McLaughlin Foundation Chair in</td>
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<td>Paediatrics at The Hospital for Sick</td>
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<td>Children</td>
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<td>January 28</td>
<td>Lori West, MD, Dphil.</td>
<td>Tolerating a New Heart: Neonatal Transplantation Tolerance in Humans</td>
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<td>Medical Director, Heart Transplant Service</td>
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<td>February 4</td>
<td>Alessio Fasano, MD</td>
<td>Celiac Disease in North America: Are we different or indifferent?</td>
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<td>Professor of Pediatrics, Medicine and</td>
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<td>Director, Mucosal Biology Research Center</td>
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<td>University of Maryland, School of Medicine</td>
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<td>Baltimore, MD</td>
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<td>February 11</td>
<td>Associate Residents</td>
<td>Cases from the Paediatric Service</td>
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<td>February 18</td>
<td>Silva A. Arslanian, MD</td>
<td>Insulin Resistance and the Metabolic Syndrome in Children</td>
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<td>Director, General Clinical Research Center</td>
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<td>Program Director, Pediatric Endocrine</td>
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<td>Pittsburgh, Pennsylvania</td>
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<tr>
<td>February 25</td>
<td>Brian Hodges, MD, MEd, FRCPC</td>
<td>Medical Education and the Maintenance of Incompetence In collaboration with the 6th Annual Medical Education Day</td>
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<td>Director, University of Toronto Wilson</td>
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<td>Toronto General Hospital, Toronto, Ontario</td>
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<td>March 3</td>
<td>David Wolfe, PhD</td>
<td>Adolescent Development and Risk Behaviours: What We Need to Know</td>
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<td>RBC Investments Chair in Developmental</td>
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<td>Psychopathology and Children’s Mental</td>
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<td>Health University of Western Ontario</td>
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<td>March 10</td>
<td>Carter Snead III, MD</td>
<td>Fire in the Brain: Epilepsy, Magnetism, and the MEG</td>
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<td>Professor of Paediatrics</td>
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<td>Brain and Behaviour Program</td>
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<tr>
<td>March 17</td>
<td>March Break</td>
<td>No Grand Rounds</td>
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<tr>
<td>March 24</td>
<td>Johann K. Hitzler, MD</td>
<td>Acute Leukemia in Children with Down Syndrome Daniel Burton Lectureship</td>
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<td>Division of Haematology/Oncology</td>
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<td>March 31</td>
<td>Clinical Pathological Conference (CPC)</td>
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<td>April 7</td>
<td>Gary R. Fleischer, MD</td>
<td>Occult Bacteremia 2004: Resistance vs. Research</td>
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<td>Thomas Morgan Rotch Professor</td>
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<td>Department of Pediatrics, Harvard Medical School</td>
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<td>Pediatrician-in-Chief and Chair</td>
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<td>Department of Medicine, Children’s Hospital</td>
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<td>Boston, Massachusetts</td>
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<td>April 14</td>
<td>Michael Levin, MD</td>
<td>Pathophysiology and Treatment of Meningococcal Meningitis and Septicaemia</td>
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<td>Imperial College School of Medicine</td>
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<td>London, England</td>
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<td>April 21</td>
<td>Roderick R. McInnes, MD</td>
<td>The Human Genome Project: The Future of Paediatric Practice</td>
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<td>Anne and Max Tanenbaum</td>
<td>Paediatric Update 2004</td>
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<td>Chair in Molecular Medicine</td>
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<td>Professor of Paediatrics and Molecular and Medical Genetics</td>
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<td>University of Toronto</td>
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<td>April 28</td>
<td>Daniel Kastner, MD</td>
<td>Six Patients: An Introduction to the Systemic Autoinflammatory Diseases</td>
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<td>Chief, Genetics and Genomics Branch</td>
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<td>National Institute of Arthritis and Musculoskeletal and Skin Disease</td>
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<td>Bethesda, Maryland</td>
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<td>April 5</td>
<td>David R. Thorburn, PhD</td>
<td>So Many Genes, So Many Carriers: Mitochondrial Misbehaviour in Rare and Common Diseases Barsky Lectureship</td>
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<td>NHMRC Senior Research Fellow</td>
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<td>Melbourne, Australia</td>
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<td>May 12</td>
<td>B U.K. Li, MD</td>
<td>Cyclic Vomiting Syndrome: Challenges at the Front Line</td>
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<td>Professor, Department of Pediatrics</td>
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<td>Northwestern University</td>
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<td>Director, Division of Gastroenterology, Hepatology and Nutrition</td>
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<td>Children’s Memorial Hospital of Chicago</td>
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<td>Chicago, Illinois</td>
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<td>May 19</td>
<td>Laura Bachrach, MD</td>
<td>Pediatric Bone Bank – Risk Factors for Bankruptcy</td>
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<td>Professor of Pediatric Endocrinology</td>
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<td>Stanford University Medical Center</td>
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<td>Stanford, CA</td>
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<td>May 26</td>
<td>No Grand Rounds</td>
<td>Residents Research Day</td>
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<td>June 2</td>
<td>Lillian Sung, MD</td>
<td>Preferences of Parents and Healthcare Professionals in Pediatric Cancer</td>
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<td>Research Fellow</td>
<td>16th Annual Andrew-Sass Kortsak Award</td>
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<td>June 9</td>
<td>Department of Paediatrics Award’s Day</td>
<td>Final Grand Rounds for 2003-2004</td>
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Faculty Awards

Teaching/Education Awards
R.H.A Haslam Precandidate Teaching Award to the faculty member who has demonstrated excellence in preclerkship teaching.
  Dr. Sheila Jacobson, *Paediatric Medicine*

Clerkship Teaching Award to the faculty member who has demonstrated excellence in clerkship teaching.
  Dr. Hartley Garfield, *Paediatric Medicine*

Harry Bain Award to a full-time member of the Department of Paediatrics who has demonstrated excellence in teaching as nominated by core paediatric residents.
  Dr. Dennis Scolnik, *Paediatric Emergency Medicine*

Marvin Gerstein Award to a part-time member of the Department of Paediatrics who has demonstrated excellence in teaching as nominated by core paediatric residents.
  Dr. Norman Saunders, *Paediatric Medicine*

Subspecialty Teaching Award to the faculty member who has demonstrated commitment to excellence in teaching the subspecialty residents and clinical fellows.
  Dr. Gideon Koren, *Clinical Pharmacology and Toxicology*

CME Award to the faculty member who has demonstrated excellence in course coordination or teaching in a Department of Paediatrics or University of Toronto Continuing Education sponsored event.
  Dr. Karen Leslie, *Adolescent Medicine*

PERLS Award (Paediatric Educational Resident Lecture Series Award) to the faculty member who has demonstrated commitment to excellence in teaching at the Paediatric academic sessions.
  Dr. Unni Narayanan, *Orthopaedic Surgery*

Clinical Awards
Richard Rowe Award for Clinical Excellence in Paediatric Medical Care to the physician in the Department of Paediatrics who has demonstrated excellence in the delivery of clinical care in the broadest sense over a significant period of time.
  Dr. Rayfel Schneider, *Rheumatology*

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

Research Awards
Junior Faculty Award for Excellence in Research recognizes outstanding achievements and progress in research by a physician during the first six years after his/her initial academic appointment and whose primary appointment is in the Department of Paediatrics, University of Toronto. The award is adjudicated based on the importance/impact of the nominee’s research in comparison to research being performed by other investigators in the nominee’s research field and, particularly, by young investigators.
  Dr. Nicola Jones, *GI/Nutrition*
Resident and Fellow Awards and Achievements

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

- Dr. Eyal Cohen, PGY4
- Dr. Ronik Kanani, PGY3

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

- Dr. Chantelle Barnard

National Residents & Fellows Research Competition

- Dr. Catherine Birken, Paediatric Medicine

Research Awards
Paediatric Research Awards for excellence in resident research.

Core Paediatrics
1st place – Dr. Melissa Parker
Paediatric emergency department staff perceptions of infection control measures against severe acute respiratory syndrome (SARS). Parker MJ, Goldman RD.

2nd place – Dr. Tara Gelman
Where to go: a study examining students’ priorities when ranking pediatric residency programs. Gelman T, Macarthur C, Banner S, Tallet S.

3rd place – Dr. Ronik Kanani
Imported severe and complicated paediatric malaria at The Hospital for Sick Children. Kanani R, Ford-Jones L, Kain KC.

Subspecialty Paediatrics
1st place – Dr. Christopher Barnes, Haematology/Oncology
Pharmacokinetics of recombinant factor VIII (Kogenate-FS) in children and causes of inter-patient pharmacokinetic variability. Barnes C, Stain AM, Pazmino-Canizares J, Clark D, Hensmen C, Lillicrap D, Blanchette V, Carcao M.

2nd place – Dr. Christina Boros, Rheumatology

3rd place – Dr. Uri Tabori, Haematology/Oncology
2nd place – Dr. Todd Alexander, Nephrology
Sub-cellular delineation of four populations of the epithelial sodium hydrogen exchanger, NHE3. Alexander RT, Furuya W, Grinstein S.

1st place poster – Dr. Catherine Birken, Paediatric Medicine
Child homicide and socioeconomic status. Birken C, Parkin P, To T, Macarthur C.

2nd place poster – Dr. Trenna Sutcliffe, Developmental Paediatrics
The association between bottle vs. cup feeding and iron deficiency in children 12 to 38 months. Sutcliffe T, Kambalia A, Westergard S, Jacobson S, Peer M, Parkin P.

Annual Resident and Fellow Research Day Participants
Dr. Jonathan Akikusa, Rheumatology
Extreme hyperferritinemia in childhood. Akikusa J, Ramanan AV, Weitzman S, Silverman ED, Schneider R.

Dr. Sanjay Aher, Neonatal-Perinatal Medicine
The effectiveness and safety of late erythropoietin in reducing exposure to donor blood in preterm infants – a meta-analysis. Aher S, Ohlsson A.

Dr. Alexandra Ahmet, Endocrinology

Dr. Hosanna Au, Core Paediatrics
Causes of chronic diarrhoea in infants admitted to hospital in first 6 months of life. Au H, Friedman J.

Dr. Marina Avner, Clinical Pharmacology and Toxicology
North American isotretinoin survey. Avner M, Carey J.

Dr. Carolyn Beck, Paediatric Medicine

Dr. Tawfeg Ben-Omran, Clinical Genetics
Mutations in Ligase IV resulting in a Nijmegen breakage syndrome-like phenotype. Ben-Omran T, Cerroaaletti K, Concannon P, Weitzman S, Nezarati MM.

Dr. Catherine Birken, Paediatric Medicine

Dr. Maryanne Crockett, Infectious Diseases
Nosocomial transmission of congenital tuberculosis in a neonatal intensive care unit. Crockett M, King S, Jamieson F, Matlow A.
Dr. Anne Durkan, *Nephrology*
Tacrolimus in childhood nephrotic syndrome. Durkan A, Harvey E, Pearl R, Langlois V, Geary D.

Dr. Sloane Freeman, *Core Paediatrics*
Type 1 diabetes and autism. Freeman S, Daneman D.

Dr. Sunit Godambe, *Clinical Genetics*
Indomethacin responsiveness in very low birth weight (VLBR) neonates who received surfactant. Godambe S, Newby B, Shah P, Shah V.

Dr. Koumodi Godbole, *Clinical Genetics*
Functional disomy of Xp: prenatal findings and postnatal outcome. Godbole K, Kolomeitz E, Winsor EJT, Steele L, Chitayat D.

Dr. Marcela Hernandez, *Infectious Diseases*

Dr. Tonya Kara, *Nephrology*
Acute renal failure secondary to meningococcal sepsis. Kara T, Morris MC, Wong W, Cox P, Geary D.

Dr. Risperidone treatment in adolescents with anorexia nervosa – a case series. Kerem N, Pinhas L, Boachie A, Katzman D.

Dr. Joyce Lim, *Cardiology*
Clinical Features, management and outcomes of children with fetal versus postnatal diagnosis of atrial isomerism (Heterotaxy Syndromes). Lim JSL, McCrindle BW, Smallhorn JF, Jaeggi ET.

Dr. Bryan Lo, *Clinical Genetics*

Dr. Lodha, *Neonatal-Perinatal Medicine*
Growth and neurodevelopmental outcome of infants with abdominal wall defects. Lodha A, Scrafield K, Green P, de Silva N, Moore AM.

Dr. Angela Orsino, *Core Paediatrics*
Polysystic ovary syndrome in adolescent girls: population characteristics, investigation and management strategies. Orsino A, Hamilton J.

Dr. Mubeen Rafay, *Neurology*

Immunoglobulin therapy in children with myasthenia gravis: systemic review of adult and pediatric trials. Rafay MF, Vajsar J.

Dr. Kevin Roman, *Cardiology*
Fetal pulmonary stenosis and pulmonary atresia with intact ventricular septum: determinants of biventricular repair. Roman KS, Mii M, Smallhorn J, Jaeggi ET.
Dr. Michael Salman, *Neurology*
Cerebellar vermis dysmorphology in children with spina bifida and Arnold-Chiari type II malformation. Salman MS, Blaser S, Dennis M.

How to quantify cerebellar plasticity in children. Salman MS, Sharpe JA, Eizenman M, Lillakas L, Dennis M, Westall C, Steinback M.

Dr. Prakash Satodia, *Neonatal-Perinatal Medicine*
Predicting kernicterus in severe unconjugated hyperbilirubinemia. Satodia P, Tan-Dy CY, Blaser S, Fallah S, Moore AM.

In vivo quantification of taurine and glutamate by 1H magnetic resonance in neonatal hypoxic-ischaemic encephalopathy and seizures. Satodia P, Tan-Dy C, Oakden W, Blaser S, Noseworthy MD, Moore AM.

Dr. David Skidmore, *Clinical Genetics*
Bartsocas-Papas syndrome: prenatal diagnosis and autopsy findings. Skidmore DL, Keating S, Johnson J, Chitayat D.

Dr. Uri Tabori, *Haematology/Oncology*

Dr. Dhena Tennankore, *Core Paediatrics*
Eye findings in a large cohort of patients with juvenile dermatomyositis. Tennankore D, Akikusa JD, Levin A, Feldman BM.

Dr. Tom Walters, *GI/Nutrition*
Epidemiology of pediatric IBD in the Greater Toronto Area. Walters TD, Critch J, Kundhal P, Sherman P, Griffiths AM.

Dr. Evangeline Wassmer, *Neurology*
The significance of positive temporal and central sharp waves in neonatal EEG-preliminary results. Wassmer E, Hunjan A, Satodia P, Moore AM, Cortez M.
Promotions/Retirements

Promoted to Professor of Paediatrics
Dr. Robert Hamilton, Cardiology
Dr. Shinya Ito, Clinical Pharmacology and Toxicology

Promoted to Associate Professor of Paediatrics
Dr. Paul Dick, Paediatric Medicine
Dr. Yigal Dror, Haematology/Oncology
Dr. Jeremy Friedman, Paediatric Medicine
Dr. Christine Harrison, Bioethics
Dr. Nicola Jones, GI/Nutrition
Dr. Lorelei Lingard, Medical Education
Dr. Dennis Scolnik, Paediatric Emergency Medicine
Dr. Etienne Sochett, Endocrinology

Retirees
The following physicians retired from The Hospital for Sick Children in June of 2004:
Dr. Rosalind Curtis, Division of Neurology
Dr. Melvin Freedman, Division of Haematology/Oncology
Dr. Robert Sutton, Division of Paediatric Medicine

25 Years of Service Awards
The following physicians were honoured for their 25 Years of Service to The Hospital for Sick Children in June of 2004:
Dr. Morton Goldbach, Division of Paediatric Medicine
Dr. Robert Hilliard, Division of Paediatric Medicine
Dr. Moshe Ipp, Division of Paediatric Medicine
Dr. Dayanand Jagdeo, Division of Cardiology
Dr. Daune MacGregor, Division of Neurology
Dr. Paul Pencharz, Division of GI/Nutrition

Honorary Awards
The following physicians were recognized for their contributions to The Hospital for Sick Children in June of 2004:
Dr. Michael Lester, Community Paediatrics
Dr. Peter Strachan, Community Paediatrics
Publications 2003 - 2004
DEPARTMENT OF PAEDIATRICS
Division of Adolescent Medicine

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


TeenNet Project, Department of Public Health Sciences, University of Toronto: Impact of an Internet-based Intervention for Youth Smoking Prevention and Cessation. Skinner H, Goldberg E: Canadian Institutes of Health Research ($479,700 2002 - 2005).
Division of Cardiology

PUBLICATIONS


**RESEARCH AND INVESTIGATIONS**


Application of Fetal Electrocardiography to Fetal Cardiology. Hamilton R: Heart and Stroke Foundation of Ontario ($91,401 2001 - 2004).


Assessment of anti-HLA antibody development in infants following the Norwood procedure. West LJ, Dipchand AI, Hornberger L: The Hospital for Sick Children Seed Grant Competition ($32,000 2002 - 2004).


Investigation of neonatal tolerance induced by ABO-incompatible infant heart transplantation. West LJ: Canadian Institutes of Health Research (CIHR) ($92,000/yr 2004-2007).


Preconditioning study equipment grant. Redington AN, Rahbek M, Kharbanda R: Danish Heart Foundation ($10,000 2004 - 2005).


The assessment of left ventricular volumes by three-dimensional echocardiography, contrast echocardiography and magnetic resonance in paediatric patients. Golding IF, Smallhorn JF, Roman K, Yoo Sj: Bristol-Myers Squibb Medical Imaging Inc. ($5,000 2003 - 2004).


Division of Clinical and Metabolic Genetics

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


ART workshop: To develop a research protocol for a national prospective study to evaluate the risk of genetic epigenetic alterations leading to congenital malformations and cancer in offspring conceived using assisted reproductive technologies. Weksberg R: National Cancer Institute of Canada and Canadian Institutes for Health Research ($19,000 NCIC, $10,000 CIHR).

Canadian Centre for Applied Cancer Genetics. Malkin D, Meyn MS: Canadian Foundation for Innovation ($452,000 2002 - 2006).

Canadian Centre for Applied Cancer Genetics. Malkin D, Weksberg R: Canada Foundation for Innovation ($6,880,000 2002 - 2006).


Elucidation of the pathways involved in degradation of mutant lysosomal enzymes. Mahuran D, Brown E, Callahan J, Lukacs G, Withers S: *PENCE Protein Science Research Funding* ($160,000 per year 2002 - 2005).


Feasibility of Prenatal Screening for SLO syndrome (SLOS). Haddow JE, MacRae A, Chitayat D: *National Institutes of Health (Grant #HD-38940-02)* ($500,000 2001 - 2005).


Second And First trimester Evaluation of Risk of fetal trisomies (SAFER). MacRae A, Chitayat D: *Canadi... (NTSR) ($655,833 2003).


Division of Clinical Pharmacology and Toxicology

PUBLICATIONS


Koren G: We work in boxes that do not talk to each other. JFAS International 2004: 1: pp e12.


RESEARCH AND INVESTIGATIONS


Determinants of renal handling of drugs during development. Koren G: MRC Grant MA 8544 ($1,600,000 1984 - 2004).


Prenatal Exposure to HMG-CoA Reductase Inhibitors: Fetal and Neonatal Outcome. Ito S: Canadian Foundation for Women’s Health (The Duchesnay Fund for Better Use of Drugs During Pregnancy Lactation) ($30,000 2004 - 2005).

Division of Endocrinology

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


A 24 week randomized, double-blind, active-controlled, multicenter study to evaluate the safety and efficacy of rosiglitazone when administered to paediatric patients with type 2 diabetes mellitus. Hamilton J: GlaxoSmithKline ($20,000 2001 - 2003).


The Genetics and Neuroendocrinology of Short Stature. Hamilton J, Daneman D, Wherrett D, Perlman K: Lilly International Growth Study (GeNeSIS) ($50,000 2001 - 2004).


Type 1 Diabetes TrialNet – The impact of GAD on preservation of Beta cell function. Wherrett D, Mahon J, Daneman D: National Institutes of Health ($1,750,000 2001 - 2008).


Moehn S, Bertolo RFP, Pencharz PB, Ball RO: Pattern of carbon dioxide production and retention is similar in adult pigs when fed hourly, but not when fed a single meal. BMC-Physiology 2004: 4: p 11.


Zheng PY, Jones NL: Helicobacter pylori strains expressing the vacuolating cytotoxin interrupt phagosome maturation in macrophages by recruiting and retaining TACO (coronin). Cellular Microbiology 2003: 5(1): pp 25-40. Figure selected for cover of issue of Cellular Microbiology.


RESEARCH AND INVESTIGATIONS


Bone mineral density after paediatric liver transplantation. Ng VL: The Hospital for Sick Children Seed Grant ($15,912 2002 - 2003).


Clinician Scientist Training Program in Clinical Nutrition Research. Pencharz P: Canadian Institutes of Health Research ($530,000 2002 - 2008).


Cu and Zn toxicity in the Hep G2 human hepatoma line. Roberts E, Seth R: RESTRACOMP ($38,000 2003 - 2005).

Cu and Zn toxicity in the Hep G2 human hepatoma line. Roberts E, Seth R: NSERC ($34,600 2003 - 2005).


Does Ursodeoxycholic Acid with or without Docosahexanoic Acid Prevent or Ameliorate Liver Disease in a Congenic Mouse Model of Cystic Fibrosis? Durie P: Axcan Pharma, Inc. ($69,132 2003 - 2004).


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

Host immune response to Helicobacter pylori infection. Jones NL: Canadian Institutes of Health Research ($102,265 2001 - 2004).


Immune suppression therapy for children with malignancy before or after liver transplantation – the role of Sirolimus. Ng V, Jiminez-Rivera C: Wyeth-Ayerst Canada ($6,500 2002 - 2003).


Insulin resistance and oxidative stress in childhood NAFLD. Roberts E, Mager D: Canadian Association of Gastroenterology/Nestle/CIHR Paediatric Nutrition Fellowship Award ($120,000 2003 - 2005).


Molecular Basis of the Cystic Fibrosis Phenotype. Corey M: Canadian Institutes of Health Research ($542,820 2001 - 2006).


Neonatal protein and energy metabolism. Pencharz P: Canadian Institutes of Health Research ($750,000 2001 - 2004).


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


RESEARCH AND INVESTIGATIONS


A phase II study of IV Exatecan Mesylate administered daily for five days every three weeks to paediatric patients with relapsed or refractory rhabdomyosarcoma – $11,000 per patient. Baruchel S, Pappo A: Daichi Pharmaceutical Corporation ($11,000 2003 - 2004).


A prospective, randomized trial to compare two regimens of prophylaxis in older boys with severe hemophilia A. Carcao MD, Blanchette V, Feldman B, Oh P, Babyn P, Hedden D: Canadian Hemophilia Society – Care Until Cure Program ($98,834 2001 - 2003).


Cancer and chemosensitivity. Irwin MS: Premier’s Research Excellence Award ($150,000 2003 - 2009).


Diagnostic and treatment delays in childhood centres in Canada. Franco E, Barr RD, Greenberg M, Mery L, Morrison H: Canadian Institutes for Health Research (CIHR) ($64,000 2003 - 2005).


Epigenetic status of KCNQ10T1 in sporadic non-Wilms’ tumor embryonal tumors associated with molecular alterations of chromosome 11p15. Pappo AS: Translational Research – COG Chair’s Developmental Fund Award Program (Subgrant No. 11833 Grant No. U10 CA98543-01 NCI) ($10,179 2002 - 2004).


Functional analysis of the p53 family members p73 and p63 roles in apoptosis, development and cancer. Irwin MS: Canada Research Chair; Tier II (Salary Award) ($500,000 2003 - 2008).


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Impact of neutrophil function and neutrophil levels on oral diseases and susceptibility to infection in neutropenic patients. Glogauer M, Dror Y: The Hospital for Sick Children Foundation ($72,020 2003 - 2005).


Investigation of communication modalities for paediatric patients during transient voicelessness through augmented environments. Chau T, Bouffet E, Kavanagh D, Beal D: Natural Sciences and Engineering Research Council ($111,800 2003 - 2006).


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

Molecular determinants of tumor formation in Li-Fraumeni syndrome. Malkin D: National Cancer Institute of Canada ($387,000 2004 - 2007).

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Role of p73 in chemotherapy sensitivity. Irwin MS: Connnaught – New Staff Matching Grant ($20,000 2003 - 2004).


Steroid-induced osteoporosis in the paediatric population – Canadian incidence study (STOPP-CIS). Ward L, Grant R: CIHR ($638,280 2004).


Relationship of oral disease and oral neutrophil function in patients with SDS. Glogauer M, Dror Y: Schwachman-Diamond Syndrome Canada ($27,000 2002 - 2004).
Division of Immunology/Allergy

PUBLICATIONS


Roifman, C: Meeting the patients’ needs. IGIV Insight 2003: 1.


RESEARCH


Correcting purine nucleoside phosphorylase (PNP) deficiency by intracellular delivery of human PNP combined with the HIV-TAT protein transduction domain. Grunebaum E: Canadian Institutes for Health Research ($100,000 2004).


Rapid IVIG administration, a multicenter international study. Roifman C: Bayer ($65,000 2002 - 2003).


Division of Infectious Diseases

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


The Hospital for Sick Children Department of Paediatrics


SARS. Richardson S, Matlow A: Ministry of Health and Long Term Care ($2,500,000 2003).
Division of Neonatology

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


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Canadian Cochrane Network and Centre. Ohlsson A: The Canadian Cochrane Network: Canadian Institutes of Health Research ($1,000,000 2000 - 2005).

Canadian Research Chair (tier 1) in Fetal, Neonatal and Maternal Health. Post M: Canadian Chair Award ($200,000/year 2000 - 2007).


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

Comparison of two methods of continuous positive airway pressure (CPAP) to support successful extubation of infants £ 1500 grams. Hyndman M: *The Lung Association* ($14,000 2004 - 2005).


Neurodevelopmental outcome of extremely low birthweight infants randomized to high or low triggers for blood transfusion (PINTOS). Whyte R, Asztalos E, Kirpalani H: *Canadian Institutes of Health Research* ($305,724 2002 - 2005).


Thyroid hormone and infant visual processing development. Rovet J, Westall C, Asztalos E: Canadian Institutes of Health Research ($616,540 2001 - 2006).
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RESEARCH AND INVESTIGATIONS

Beta-catenin signaling in polycystic kidney and liver disease. Rosenblum ND: Liam’s Light/The Hospital for Sick Children ($130,000 2003 - 2005).


Canadian Child Health Clinician-Scientist Program. Rosenblum ND: B.C. Research Institute for Children’s and Women’s Health ($90,000 2002 - 2008).

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The role of Notch 1 in kidney development. Piscione T: Biomedical Research Grant, The Kidney Foundation of Canada ($49,870/year for 3 years 2004).

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Division of Neurology

PUBLICATIONS


A randomized double-blind trial on add-on fluunarizine to prevent the cognitive deterioration associated with infantile spasms. Carmant L, Weiss SK: *Canadian Institutes of Health Research* ($410,000 2003 - 2006).


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Dean’s Fund. Perez Velazquez JL: *University of Toronto* ($10,000 2001 - 2006).


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Is lipoprotein (a) a risk factor for recurrent ischemic stroke in children. deVeber GA, Chan AK, Connolly P: *Canadian Institutes of Health Research* ($70,000 2002 - 2004).


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Neural correlates of auditory processing in autism and language disorders. Roberts W, Oram J, Roberts T: Canadian Institutes of Health Research, Postdoctoral Fellowship for Janis Orant ($80,000 2003 - 2005).


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

Role of the carnitine/organic cation transporters in the mammary gland and implications for the suckling infant. Tein I: Mead-Johnson Grant ($7,500 2003 - 2004).


Teacher’s understanding and perceptions of ADHD. Wiener J, Malone M: Social Sciences and Humanities Research Council of Canada ($85,000 2002 - Sept 2005).


The dynamics and control of the transition to seizure in rat epilepsy models. Perez Velazquez JL: Savoy Epilepsy Foundation ($20,000 2002 - 2003).


The role of defective carnitine transport in male infertility. Tein I: Physicians’ Services Incorporated Foundation of Ontario Grant ($164,000 2001 - 2003).


Paediatric Emergency Medicine

PUBLICATIONS
Bartholome B: Diagnosis and Treatment of Urinary Tract Infection in Primary Care Practice and Emergency Department: Paediatric Notes 2003.

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Paediatric Medicine

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RESEARCH AND INVESTIGATIONS


A 26 week, randomized, multicenter, parallel-group, double-blind, vehicle controlled study to evaluate the incidence of atopic dermatitis flares when ASM 981 pimecrolimus cream 1% is used at the first signs and/or symptoms of atopic dermatitis. Pope E, Greenberg S, Ho TCN, Webster C, Weinstein M: Novartis Pharmaceuticals Canada Inc ($8,900 2003 - 2004).


A multicentre, single arm prospective, open label study to assess the safety of Elidel (SDZ ASM 981 – pimecrolimus) cream 1% in patients with atopic dermatitis (Rainbow study). Pope E, Krafchik BR: Novartis Pharmaceuticals Canada Inc. ($7,000 2002 - 2003).


A randomized, prospective, double-blind, placebo-controlled clinical study assessing the efficacy of topical Tacrolimus 0.1% ointment and topical Clobetasol propionate 0.05% ointment in the treatment of vitilig. Ho N, Krafchik BR, Pope E, Greenberg S, Webster C, Weinstein M: Fujisawa Canada Inc ($62,425 2004).


An open label effectiveness and safety study of Elidel (pimecrolimus) cream 1% in subjects with atopic dermatitis who completed study CASM981C2405. Pope E, Krafchik BR: Novartis Pharmaceuticals Canada Inc. ($9,000 2002 - 2003).


Case Verification for Paediatric Asthma Surveillance. To T, Cicutto L, Dell S, Dick PT, MacLusky I: Health Canada ($30,000 2002 - 2003).


Neural correlates of auditory processing in autism and language disorders. Roberts W, Oram J, Roberts T: Canadian Institutes of Health Research, Postdoctoral fellowship for Janis Oram ($80,000 2003 - 2005).


Paediatric Outcomes Research. Parkin PC: The Hospital for Sick Children Foundation ($1,250,000 1999 - 2004).


The efficacy and safety of intravenous pulse steroids compared to standard oral steroids in the treatment of problematic hemangiomas in infants: A randomized controlled trial. Pope E, Krafczik BR, Weinstein M, Baruchel S: Weston Grant for Pediatric Dermatology, Society for Pediatric Dermatology ($20,000 2002 - 2004).


Respiratory Medicine

PUBLICATIONS


RESEARCH AND INVESTIGATIONS

A randomized double blind placebo controlled study to investigate the efficacy and safety of 24 weeks of oral treatment with BIIL 284 BS in adult (75 mg, 150 mg) and pediatric (75 mg) cystic fibrosis patients. Selvadurai H (05/2003 - 09/2003), Melinda Solomon (10/2003 - 09/2004): Boehringer Ingelheim Pharm Inc. ($115,682 2003 - 2004).


PUBLICATIONS


RESEARCH AND INVESTIGATIONS


International study: Pharmacokinetics and effectiveness of Leflunomide in JRA. Silverman ED (Site PI): Aventis Pharma ($90,000 1998 - 2004).


International Study: The efficacy of soluble TNFR in JRA. Silverman ED (Site PI): Immunes /Amgen Corporation ($200,000 1997 - 2005).


Rheumatic Disease Unit Operating Grant. Laxer RM: Canadian Arthritis Society ($10,000 2002 - 2004).


Departmental Appointees

PUBLICATIONS


**RESEARCH AND INVESTIGATIONS**

Atypical absence epilepsy: GABA (B) receptor mediated mechanisms. Snead OC III, Cortez MA, Perez Velazquez JL: Canadian Institutes of Health Research ($726,430 2003 - 2008).


Dean's Fund. Perez Velazquez JL: University of Toronto ($10,000 2001 - 2006).


Dynamics of GLUT4 in skeletal muscle. Klip A: Canadian Diabetes Association ($75,000/yr 2004 - 2006).


Fetal Alcohol Syndrome: Oxidative Stress and Innovative Therapies (Aiii) Structural manifestations of FAS/ARND brain injury. Rovet J: Canadian Institutes of Health Research New Emerging Team Grant ($100,000 2002 - 2007).


GLUT4 activation in insulin action and insulin resistance. Klip A: Canadian Diabetes Association Grant-In-Aid ($75,000/yr 2002 - 2004).


In vitro and in vivo models of recurrent seizures. Perez Velazquez JL: The Hospital for Sick Children, Seed Grant for Patient-Based Research ($21,698 2002 - 2004).


Teacher’s understanding and perceptions of ADHD. Wiener J, Malone M: Social Sciences and Humanities Research Council of Canada (SSHRC) ($85,000 2002 - 2005).


The dynamics and control of the transition to seizure in rat epilepsy models. Perez Velazquez JL: Savoy Epilepsy Foundation ($20,000 2002 - 2003).

Thyroid hormone insufficiencies and visual perceptual deficits in preterm infants (#6-FY04-73). Rovet J, Westall C, Azstalos E, Perlmam K, Heon E: March of Dimes ($253,083 USD 2004 - 2007).


Why are diabetic cardiomyocytes so subject to hypoxia? Klip A: Juvenile Diabetes Research Foundation International ($69,552/yr 2003 - 2004).

Bloorview MacMillan Children’s Centre

PUBLICATIONS


INVITED NATIONAL/INTERNATIONAL MEETINGS

Dr. Darcy Fehlings
National Advisory Committee for the use of Botulinum Toxin in Canada, November 2003.

Dr. Darcy Fehlings

Dr. Doug Biggar

Dr. Doug Biggar

HIGHLIGHTS

Dr. Golda Milo-Manson
President of Developmental Section of Canadian Paediatric Society, June 2004.

Dr. Golda Milo-Manson
Speciality Committee in Developmental Paediatrics, The Royal College of Physicians & Surgeons of Canada.

Dr. Joseph Telch
President of the Ontario Chapter of the American Academy of Pediatrics, October 2003.

Dr. Darcy Fehlings

Dr. Darcy Fehlings
Recipient of BMCC Circle of Honor Award for Research.