Committed to excellence in clinical care, education and research

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A MAJOR ROLE FOR THE DEPARTMENT OF PAEDIATRICS IS THE EDUCATION OF FUTURE CAREGIVERS.

From its earliest days, SickKids and its physicians have played a major role in the education of medical students. The 1903-1904 academic calendar of the University of Toronto’s Faculty of Medicine outlined a “special course of instruction in disease of children,” and in 1909, Paediatrics became a distinct department of the Faculty of Medicine. Since those early days, much has changed in the field of paediatrics, but what has not changed is the department’s dedication and commitment to providing the highest level of training to the future paediatricians of the world.
THE PAEDIATRIC EXECUTIVE COMMITTEE
Left to right: Mr. Richard Gerber, Ms. Seonag Macrae, Dr. Susan Tallett,
Dr. Hugh O’Brodovich, Dr. Daune MacGregor, Dr. Norman Rosenblum
CHAIR’S REPORT

The Department of Paediatrics’ 2004-2005 Annual Report outlines some of the achievements of our more than 300 full-time and part-time members. These individuals work either within the five different academic health science centres fully affiliated with the University of Toronto, or in our surrounding communities.

I would like to draw special attention to the establishment of the new Division of Developmental Paediatrics within the University of Toronto’s Department of Paediatrics. The Hospital for Sick Children and Bloorview MacMillan Children’s Centre have worked together to form a Centre of Excellence in Developmental Paediatrics which will greatly enhance clinical care, education and research related to children with developmental disorders.

Over the past year, our department has increased its presence within the Faculty of Medicine’s undergraduate training programmes. Our post-graduate MD programs have expanded so that in 2004-2005 there are 219 physicians from 26 different countries obtaining paediatric and specialized paediatric training. Our continuing education programs, with the Annual Paediatric Update as its flagship activity, help learners from all professions.

Our research intensive department has again increased its annual research funding to nearly $20 million. Eighty-four per cent of the members of the Department of Paediatrics now hold grants as principal investigators and all of our core paediatric residents are involved in scholarly research activities designed to lead to a peer-reviewed manuscript.

I would like to take this opportunity to welcome the new members of our department, many of whose pictures are included in this report. I would also like to thank the entire department for their outstanding contributions.

HUGH O’BRODOVICH, MD, FRCP(C)
Professor of Paediatrics and Physiology
Chair of Paediatrics, University of Toronto
Paediatric-in-Chief, The Hospital for Sick Children
Senior Scientist, The Hospital for Sick Children Research Institute
R.S. McLaughlin Chair in Paediatrics at The Hospital for Sick Children
Focus on eating disorders, substance abuse, young families, and complex adolescent problems

ADOLESCENT MEDICINE

The Division of Adolescent Medicine continues to focus its clinical activities in four program areas – eating disorders, substance abuse, young families, and complex adolescent problems.

The Eating Disorders Program provides a variety of integrated clinical services to adolescents and their families. New initiatives include the integration of cognitive behavioral therapy, parent support groups, and multi-family group therapy. The collaborative Ontario Community Outreach Program (SickKids, University Health Network and the Ministry of Health) continues to train health care professionals around the province in the assessment and treatment of eating disorders and has been extremely successful. Finally, the multidisciplinary members of the Eating Disorder Program published Help for Eating Disorders: A Parent’s Guide to Symptoms, Causes and Treatments.

Over the past year, The Adolescent Substance Abuse Outreach Program (ASAOP) and Day Treatment Program provided direct service and the transfer of knowledge and skills throughout the hospital and the Toronto Region. These programs continue to provide treatment to adolescents with substance abuse problems.

A new clinical project in the Day Treatment Program was the development and initiation of a regular parent support group. There were many educational initiatives which included the seminar series for advanced career-track child psychiatry residents (with the Hincks), SickKids’ Adolescent Medicine Rounds and Psychiatry Grand Rounds, the telepsychiatry best practices seminar to northern communities, an interactive seminar for the University of Toronto’s undergraduate medical students and moderating a panel at the Ontario Science Centre on “The Legalization of Cannabis.” Team members served on and chaired various committees, including the Coalition of Agencies Serving Downtown Youth, Committee to Assess Glue Sniffing, Toronto Art Therapy Institute Academic Committee, Addictions Ontario representing the Ontario Youth Sector; CAMH Youth Program Advisory Board, Canadian Association of Adolescent Health Advocacy Committee, Social Work Accomplishments Committee, Adolescent Medicine Leadership Committee and the Adolescent Medicine Medical Education Working Group.

The Complex Adolescent Patient Program (CAPP) continues to focus on adolescents with a chronic illness or disability. These services are provided in the Teen Clinic, as well as in collaboration with the Renal Transplant Clinic, HIV Clinic, SLE Clinic and through inpatient consultations. Transition from pediatric to adult care is an important focus for CAPP. Collaborative initiatives to enhance transition care have begun with the Division of Rheumatology and PAM OT. CAPP is also taking a lead in the development of hospital-wide transition programs. This past year, a clinic for complicated contraceptive issues was developed in conjunction with Gynaecology. Public education is an important part of this program and is delivered through talks at schools and to parent groups, media interviews and publications.

The Young Families’ Program (YFP) continues to provide health care services, support and health education to high-risk adolescent parents and their children. The implementation of the “High Risk Prevention Project”, a collaborative effort with SCAN that is funded by the Forrester’s Foundation, will be launched and evaluated in the upcoming months. YFP continues to disseminate information to health professionals about best practices in the delivery of comprehensive care to high-risk families, and it 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 activities are an integral part of the activities of the faculty and trainees of the division. The division’s research activities include the medical complications of eating disorders with specific emphasis on osteoporosis, treatment outcomes of adolescents with eating disorders, evaluation of the use of information technology for health promotion with youth, treatment outcomes in adolescent substance use, HIV educational interventions with incarcerated youth, health values in adolescents with chronic illnesses and the impact of SARS on adolescent care.

Members of the division continue to make significant educational contributions locally, provincially, nationally and internationally, and hold leadership roles in the Department of Paediatrics Grand Rounds Committee and in the Mentorship Program for Clinicians and Teachers. Excellence in education within the division 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 committees, including the Infant Mental Health Promotion Project, Canadian Paediatric Society, American Academy of Pediatrics, Society for Adolescent Medicine, Academy for Eating Disorders and the Eating Disorder Research Society.

The division’s fellowship program is one of only two nationwide. It offers a two-year combined clinical and research fellowship, and continues to attract excellent candidates from within Canada and from centres around the world.
HONOURS AND AWARDS
Leslie K. Department of Pediatrics Continuing Professional Development and Faculty Development Award, 2004.
Leslie K. Certificate of Merit in Medical Education, Canadian Association for Medical Education (CAM E), 2005.

PUBLICATIONS

BOOKS AND BOOK CHAPTERS


FUNDING
Fusion

Division Head
Dr. Andrew Redington

Full-Time
Dr. Lee Benson
Dr. Tim Bradley
Dr. Rajiv Chaturvedi
Dr. Michael Cheung
Dr. Anne Dipchand
Dr. Fraser Golding
Dr. Gil Gross
Dr. Robert Hamilton
Dr. Edgar J aeggi
Dr. Paul Kantor
Dr. J oel Kirsh
Dr. Kyong-J in Lee
Dr. Brian M cCrindle
Dr. J ennifer Russell
Dr. J effrey Smallhorn
Dr. Elizabeth Stephenson
Dr. Lori West

Part-Time
Dr. J ack Colman
Dr. Dayanand J agdeo
Dr. Peter M cLaughlin
Dr. Anilkumar M eon
Dr. Norman M usewe
Dr. Lynne Nield
Dr. Kevin Roman
Dr. Roxanne Walker
Dr. Gary Webb

Adjunct
Dr. Fred Keeley
(Research Scientist)

Cross-Appointees
Dr. Tilman Humpl
Dr. Shi-J onn Yin

Honorary Faculty
Dr. Robert Freedom
Dr. Marlene Rabinovitch
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 60 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 centers worldwide, 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.

Exciting clinical developments include an integrated suite of catheter laboratories and magnetic resonance scanning facilities

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 myocardial development, and developmental genetics, 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.

Clinical Fellows
Dr. Hayam Aboremsh
Dr. Fahad Al-Habshah
Dr. Claudia Almeida
Dr. Abdulmajeed Al-Otay
Dr. Alessandra Bernasconi
Dr. Gabriele Bronzetti
Dr. Tiscar Cavalle-Garrido
Dr. Patricia Fernandez-Martorell

Dr. Vitor Guerra
Dr. Alexandra J evremovic
Dr. Winston Nguyen
Dr. Katja Reineker
Dr. Michael Schmidt

Clinical Research Fellows
Dr. Mikiko Shimizu (from M ay/04)
Dr. Ken Takahashi

Research Fellows
Dr. Akio Image
Dr. Mylvaganam Jeyakanthan
Dr. Koichi Kataoka
Dr. Masaki Nii
Dr. Akira Ozawa
Dr. Mikiko Shimizu (to M ay/04)

Research Associates
Dr. Jia Li

Subspecialty Residents
Dr. Robin Clegg
Dr. Matthew Crystal
Dr. Deborah Fruitman-Power
Dr. Steven Greenway
Dr. Ra Kyung Han

Administrative Staff
Teresa Angileri
Iris Bilberstein
Theresa Bragg
Sandra Brisebois
Paula Capela
Julie Dean
Esther Delea
Susan Jessop
Iris Kehler-Reimer
Shloka Mirchandaney
Andrea Morris
Ruth Taylor
Rooma Vaidya
Shirley Wang
HONOURS AND AWARDS
Bradley T. Co-winner, 2004 PReS Kourir Research Award, Annual Scientific Meeting of the Paediatric Rheumatology European Society.
Golding F. Department of Paediatrics Subspecialty Teaching Award, May 2005.
McCrindle B. Department of Paediatrics Research Award for Excellence, June 2005.
Smallhorn J. Founders Award by the American Society of Echocardiography for excellence in paediatric echocardiography, June 2005.

PUBLICATIONS

Cardiovascular research has made fundamental contributions to our understanding of the cellular biology and molecular genetics of pulmonary vascular bed.


BOOK CHAPTERS AND INVITED ARTICLES


Assessment of anti-HLA antibody development in infants following the Norwood procedure. West LJ, Dipchand AI, Homburger L. The Hospital for Sick Children Seed Grant ($16,000 per year 2002-2004).

Assessment of anti-HLA antibody development in infants following the Norwood procedure. West LJ. The Heart and Stroke Foundation of Canada ($68,097 2004-2005).


Cardiac allograft tolerance induction during immaturity. West LJ. The Heart and Stroke Foundation of Ontario ($120,000 per year 2003-2007).


Dobutamine/atropine stress echocardiography in paediatric heart transplant recipients for the assessment of post-transplant coronary artery disease. Dipchand AI, McCrindle B, West LJ. The Hospital for Sick Children Seed Grant (2 year pilot grant) ($16,000 per year 2002-2004).


Fellowship grant. Hofmann B (Supervisor: West LJ). Canadian Institutes of Health Research Training Program in Regenerative Medicine at University of Toronto ($20,000 per year 2004-2005).

Fellowship grant. J eykankanat M (Supervisor: West LJ). Canadian Institutes of Health Research Training Program in Regenerative Medicine at University of Toronto ($20,000 per year 2005-2006).


Investigation of neonatal immune tolerance induced by ABO-incompatible heart transplantation in a murine model. West LJ. The Heart and Stroke Foundation of Ontario ($110,000 per year 2004-2007).

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

Investigation of neonatally-induced allograft acceptance in a mouse model. West LJ. The Physicians’ Services Incorporated Foundation ($75,000 per year 2003-2005).

Dr. Rosanna Weksberg, Division Head, and members of her research team.
We have developed specialty clinics that enhance patient care, provide excellent teaching opportunities and create links between the division and multiple clinical services within the hospital and community.

Research endeavours in the division are actively expanding and yielding important new data which are being translated into the clinical arena. These studies include genotype-phenotype correlations for Sotos syndrome, comprehensive evaluations for children in the Craniofacial Program, evaluation of enzyme replacement programs for children with certain inborn errors of metabolism and role of phenoptin (BH4) in the management of PKU. As well, the division is establishing a new clinical research unit as a result of a Canadian Foundation for Innovation grant; this is a national collaboration studying molecular cytogenetics.

The Fifth Annual Starbucks Studentship Award was won by Marta Szybowska. She participated in a genetic counselling study, "Assessing the genetic counselling needs of adolescents – What do they want to know?" and has had two posters accepted to the American Society of Human Genetics and the National Society of Genetic Counselors on the relevance of data warehousing to clinical research.

The Division of Clinical and Metabolic Genetics has developed and participated in numerous educational activities for physicians, other health care practitioners and families. The division continued to participate in the SickKids’ Centre of Excellence initiative with a presentation on the Genetics Centre of Excellence to hospital staff. The division held the inaugural 22q Connections Family Education Day for families, friends and individuals with 22q11 Deletion Syndrome (also known as DiGeorge syndrome and velocardiofacial syndrome). As well, the 22qDS Family Network was launched to facilitate family contact and support. Innovations in transition preparation have been another focus with patients and families in the division.

The PKU Program, with funding from the SickKids Foundation, just completed an evaluation of a group intervention which demonstrated significantly positive outcomes. This program also held an information day for teens, young adults and their families last May. Funding from the Garrod Association permitted us to compile a CD of presentations which was donated to patients and to each of the 16 metabolic treatment centres across Canada. The division participated in the development of a genetics module for the innovative and exciting SickKids Child Physiology web site. This module has animated and interactive graphics which can be used to support the dialogue in a genetic counseling session. Since it is available on the Web, individuals can then review the material at home at their leisure.

The training programs in the division are flourishing with the Canadian College of Medical Geneticists Fellowship programs and The Royal College of Physicians Residency program having four and eight trainees respectively. The MSc program in Genetic Counselling graduated its fifth class of students. This program is a collaborative venture involving the Division of Clinical and Metabolic Genetics at SickKids and the Department of Molecular and Medical Genetics at the University of Toronto.
HONOURS AND AWARDS

PUBLICATIONS

BOOK CHAPTERS


FUNDING


A high risk study of schizophrenia in 22qDS. Chow E, Weksberg R. Ontario M ental Health Foundation ($231,000 2001-2005).


Commitment

Division Head
Dr. Shinya Ito

Full-Time
Dr. Patricia Harper
Dr. Gideon Koren
Dr. Irena Nulman
Dr. Margaret Thompson

Part-Time
Dr. David J uurlink
Dr. Marco Sivilotti

Cross-Appointees
Dr. Sylvain Baruchel
Dr. Lidia Derewlany
Dr. Tom Einarson
Dr. Ran Goldman
Dr. Sheila Jacobson
Dr. Denis Scolnik
Dr. Neil Shear
Dr. Bonnie Stevens
Dr. Anna Taddio

Clinical Fellows
Dr. Marina Avner
Dr. Radinka Boskovic
Dr. Ibrahim Fayez
Dr. Yaron Finkelstein
Dr. Kaeomega Lekagul
Dr. Massoud Rezvani
Dr. Nobuko Taguchi
Dr. Maria Tetelbaum

Research Fellows
Dr. Tall Finkelstein

Residents
Dr. Dan Perri (Medicine, Clinical Pharmacology)
Dr. Craig Railton (Anaesthesia, Clinical Pharmacology)

Administrative Staff
Niki Balamatis
Hila Halshtok
Leah Moscato

Visiting Scientist
Dr. Jung Yeol Han
The Division of Clinical Pharmacology and Toxicology focuses on a wide range of drug-related issues in pediatrics. The division is one of the largest and the most active pediatric pharmacology programs internationally. Our major clinical activities include a consultation service, the Motherisk program (the counseling and information center for drug and other exposures during pregnancy and lactation), and the Ontario Regional Poison Information Center. Collaborating with the Division of Immunology/Allergy, we have recently started the DART (Drug Allergy, Reactions, and Toxicology) Clinic to provide specialized outpatient follow-up and management for those with various drug/toxin-related problems.

The division is one of the two major training sites of the Royal College-accredited Clinical Pharmacology Residency Program at 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.

HONOURS AND AWARDS
Koren G. The Ivey Chair in Molecular Toxicology Award, 2004.
Koren G. Physician Research Award for Career Excellence by the Department of Paediatrics, University of Toronto, 2005.
Avner M. University of Toronto Clinical Pharmacology Training Presentation Award, 2005.

PUBLICATIONS


BOOKS AND BOOK CHAPTERS


FUNDING


Drugs and Human Milk. Ito S. Canadian Institutes of Health Research ($645,998 2002-2007).

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 and lactation) ($30,000 2004-2005).


New Emerging Team (NET) grant. Koren G, Brien J. Canadian Institutes of Health Research ($1,250,000 2002-2007).
Dedication

Acting Division Head
Dr. Daune L. MacGregor

Physicians
Dr. Douglas Biggar
Dr. Darcy Fehlings
Dr. Cynthia Goldfarb
Dr. Carolyn Hunt
Dr. Tamarah Kagan-Kushnir
Dr. Anne Kawamura
Dr. Tara Kennedy
Dr. Peggy Kirkpatrick
Dr. Golda Milo-Manson
Dr. Wendy Roberts
Dr. Jay Rosenfield

Scientific Staff
Dr. Jessica Brian
Dr. Molly Malone
Dr. Elizabeth Thompson

Developmental Fellows
Dr. Siobhan Gallagher
Dr. Anita Jethwa
Dr. Elizabeth Jimenez

Administrative Staff
Maureen Hodge
Barbara Zimnowodzki

Dr. Wendy Roberts
The Division of Developmental Paediatrics was created within the Faculty of Medicine’s Department of Paediatrics effective March 1, 2005 in response to recent major advances in this important area of Paediatrics. The Royal College of Physicians and Surgeons of Canada has recognized that developmental paediatrics represents a defined body of knowledge meriting recognition as a separate subspecialty area within paediatrics.

The training program at the University of Toronto was recently granted “accredited without certification” status by the College. SickKids and Bloorview MacMillan Children’s Centre have created an enhanced Child Development Program which provides a single access point and triage system for families and consolidates resources. As well, leaders at SickKids and Bloorview MacMillan Research Institutes are working closely together to augment research activities related to developmental disorders.
PUBLICATIONS


Working closely together to augment research activities related to developmental disorders


BOOK CHAPTERS


FUNDING


Creating and evaluating a virtual geriatric curriculum for undergraduate medical education. Kirshen A, M arr S, Goldlist B, Rachlis A, Rosenfield J. Dean’s Excellence Fund ($15,000 2004-2005); Baycrest Foundation ($5,000 2004-2005); University of Toronto Department of Medicine ($5,000 2004-2005).


Division Head
Dr. Denis Daneman

Full-Time
Dr. Jill Hamilton
Dr. Kusiel Perlman
Dr. Etienne Sochett
Dr. Diane Wherrett

Part-Time
Dr. J. Jacqueline Curtis
Dr. Susan Kirsch
Dr. Stacey Urbach

Gynaecology
Dr. Lisa Allen,
Section Chief
Dr. Nicolette Cacchia
Dr. Sari Kives
Dr. Melanie Orenson
Dr. Nancy Van Eyk

Fellows (Gynaecology)
Dr. Courtney Brown
Dr. Tarek Motan

Cross-Appointees
Dr. Amira Klip
Dr. Joanne Rovet

Honorary
Dr. John D. Bailey
Dr. Robert M. Ehrlich

Subspecialty Residents/ Clinical Fellows
Dr. Alexandra Ahmet
Dr. Shazhan Amed
Dr. Marianna Rachmiel
Dr. Anabel
Rodriguez-Romo

Research Fellows
Dr. Helen Bui

Innovation
Dr. Carol Huang
Dr. J udith
Simoneau-Roy
Dr. Vera Zdravkovic

Administrative Staff
Mira Miller
Joyce Robinson
Minet Smith
Zarine Tilak
A highly productive time with ongoing development of existing programs and new innovations

**ENDOCRINOLOGY**

The 2004-2005 academic year was a highly productive time for the Division of Endocrinology with ongoing development of existing programs and new innovations. During this academic year, there were eight residents/fellows at different stages of their clinical and research training.

Our clinical activities focus on the following areas:

(i) Diabetes: our comprehensive program for children and teens with type 1 diabetes provides ongoing care to children and teens from diagnosis to transition to adult care; new initiatives to care for the increasing number of teens with type 2 diabetes; numerous outreach activities, and patient and health care professional education; (ii) General endocrinology: with particular emphasis in the areas of growth, thyroid disease, intersex conditions and reproductive health; (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) Gynecology section: provides care to pre-teen and adolescent girls across a wide spectrum of disorders. New initiatives this past year include the combined clinic with Respiratory Medicine in the care of children with cystic fibrosis-related diabetes, a comprehensive care clinic for children with hypothalamic damage associated with brain tumours and their treatment, and interaction with the Late Effects Clinic in Oncology.

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 and the evolution of this syndrome in young children; (iii) study 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; and (vi) evaluation of disorders of calcium and bone mineral metabolism in pediatrics.
HONOURS AND AWARDS
Rovet J, Ontario Mental Health Foundation John Dewan Prize, 2004
The John Dewan Prize is intended to recognize an outstanding
researcher whose work has been, or is presently, supported by the
Foundation. The work of the candidate must be laboratory or clinical
research exhibiting originality and uniqueness of approach leading to
new and significant knowledge or concepts to do with mental health.

PUBLICATIONS
Antonescu CN, Thong F, Niu W, Karnieli E, Klip A: To be or not to be:
Regulation of the intrinsic activity of GLUT4. Current Medicinal
Chemistry, Immunology, Endocrine and Metabolic Agents 2005: 5: pp 175-188.

Bitnun A, Sochett E, Dick P, To T, J efferies C, Babyn P, Holowka S,
Forbes J, Read S, King S: Insulin sensitivity in protease inhibitor-
treated and naive HIV-infected children. The Journal of Clinical

Buccino J, M urray K, Farmer S, Assor E, Daneman D: Systemic
review of studies of the dietary management of children with type 1

Bui H, Perlman K, Daneman D: Self-monitoring of blood glucose in

Capra M, Werrett D, W eitzman S, Dirks P, Hawkins C, Bouffet E:
Pituitary stalk thickening and primary central nervous system

Colton R, Olmsted M, Daneman D, Rydall A, Rodin G: Disturbed
eating behavior and eating disorders in preteen and early teenage
girls with type 1 diabetes: A case-controlled study. Diabetes Care

Daneman D, Danne T: Inaugural commentary. Pediatric Diabetes

Daneman D: Early diabetes-related complications in adolescents:

Daneman D: Is the ‘Accelerator Hypothesis’ worthy of our attention?

Desrocher M, Rovet J: Neurocognitive correlates of type 1 diabetes
mellitus in childhood. Diabetes Mellitus. Neuropsychology, Development,

Friedman S, Roberts W, Daneman D: Type 1 diabetes and autism.

Hartikka H, Makitie O, Mannikko M, Doria A, Daneman A, Cole
William, Ala-Kokko L, Sochett EB: Heterozygous mutations in the
LDL receptor-related protein 5 (LRP5) gene cause primary

Hamilton J, Brown M, Silver R, Daneman D: Early onset of severe
diabetes-related microvascular complications: A case report. Journal

Huang C, Thirone A, Klip A: Differential contribution of IRS-1
versus IRS-2 to insulin signaling and glucose uptake in L6 myotubes.

J ebaily L, Randhawa VK, Ishiki M, Klip A: GLUT4 traffic:
Perspectives from cultures muscle cells. Current Medicinal
Chemistry, Immunology, Endocrine and Metabolic Agents 2005:

Research within the Division of Endocrinology has
focused on diabetes and other endocrine disorders
in paediatrics


BOOK CHAPTERS


FUNDING


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 ($50,000 2002-2007).

Final adult height in children with idiopathic growth hormone deficiency treated with growth hormone. Daneman D. Serono Canada Inc ($8,500 2005-2006).


Thyroid hormone and infant visual development. Rovet J, Westall C. Canadian Institutes of Health Research ($164,000 2001-2005).

Thyroid hormone insufficiencies and visual perceptual deficits in preterm infants. Rovet J, Westall C, Asztalos E, Perlman K, Heon E. March of Dimes (US$253,083 2004-2007).

Division Head
Dr. Stanley Zlotkin

Full-Time
Dr. Peter Durie
Dr. Nicola Jones
Dr. Anne Griffiths
Dr. Simon Ling
Dr. Vicky Ng
Dr. Paul Pencharz

Dr. Eve Roberts
Dr. Philip Sherman
Dr. Mary Zachos

Part-Time
Dr. Glenn Berall
Dr. Carol Durno
Dr. Paul Kortan
Dr. Margaret Marcon

Cross-Appointees
Dr. Mary Corey
Dr. Jae Kim

Clinical Fellows
Dr. Aleixo Muise
Dr. Dan Turner
Dr. Eytan Wine

Research Fellows
Dr. Tanja Gonska
Dr. Khalid Noli

Dr. Justine Turner
Dr. Thomas Walters

Administrative Staff
Gail Bratby
Chona Callejo
Shemina Hemraj
Margaret Johnson
Joanne Mchugh
Lilatool Shakur
A fully integrated program in paediatric clinical nutrition, gastroenterology, hepatology and transplantation

Gastroenterology, Hepatology and Nutrition

The Division of Gastroenterology, Hepatology and Nutrition has a fully integrated program in paediatric clinical nutrition, gastroenterology, hepatology and transplantation, making it one of only a few in North America offering this spectrum of paediatric ‘GI-coverage’.

The division continues its proud heritage as the pre-eminent Canadian Academic Gastroenterology, Hepatology and 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); inpatient management (transplant, gastroenterology and nutrition), ambulatory clinics (including transplantation, home-TPN, dysphagia, general gastroenterology, hepatology and nutrition), evidence-based rounds and training in ethics and communication. Many of our trainees in the research program (two years) combine a formal degree-granting program (MSc or PhD) with their research fellowship years.

The division hosts 10 full-time staff, four part-time and two cross-appointed members. Our research spans the spectrum from basic and translational to patient-based in such areas as cystic fibrosis, inflammatory bowel diseases, microbiology, nutrition and hepatology. Funding support (over six million dollars annually) includes grants from the CIHR, NIH, CF Foundation, Crohn’s and Colitis Foundation, the HJ Heinz Co. Foundation, Canadian Association of Gastroenterology, the CDC, and Health Canada.
HONOURS AND AWARDS

Jones N. University of Toronto Department of Paediatrics Junior Faculty Research Award. 2004.

Jones N. Canadian Association of Gastroenterology Young Investigator Award, 2005.

Sherman P. Alberta Heritage Foundation Medical Research Visiting Scientist Award, 2004.


Zlotkin S. Canadian Society of Nutritional Sciences Earle Willard M cHenry Award, 2005.

PUBLICATIONS


Our research spans the spectrum from basic and translational to patient-based in such areas as cystic fibrosis, inflammatory bowel diseases, microbiology, nutrition and hepatology.


M oehn 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. BM C Physiology 2004: 4(1): p 11.


BOOKS AND BOOK CHAPTERS


Funding support of over six million dollars annually


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 2004-2005).


The CF phenotype: Establishing diagnostic criteria for CF and related disorders. Durie P. Canadian Cystic Fibrosis Foundation ($110,000 per year 2004-2005).


Project 1: Disease variability in patients with CFTR gene mutations. Durie P. National Institutes of Health SCOR Grant (NIDDK) ($133,000 per year 2004-2005).

Genetics and positional cloning of Shwachman Syndrome Defect. Rommens J, Durie P. Canadian Institutes of Health Research ($110,000 per year 2004-2005).


REACH – A randomized, multicenter, open-label study to evaluate the safety and efficacy of anti-TNF chimeric monoclonal antibody (infliximab, remicade) in pediatric patients with moderate to severe Crohn’s Disease. Griffiths A, Centocor Inc. ($80,500 2003-2005).

A multicenter, randomized, double-blind, double-dummy, active-controlled study to evaluate the safety of Entocort EC for the treatment of Crohn’s Disease in pediatric patients aged 5 to 17 years. Griffiths A – Canadian Principal Investigator. AstraZeneca ($28,000 2005-2006).


A qualitative study comparing health care providers’, patients’, and family perceptions, attitudes and beliefs about the risks of living liver donation. Fecteau AF, Wright L, Grant D, Ng VL. The Physicians’ Services Incorporated Foundation ($64,000 2004-2006).


Optimizing cyclosporine exposure in maintenance liver transplant recipients by the use of C2 monitoring. Ng VL, Fecteau AF. Novartis Pharmaceuticals Canada Inc. ($12,650 2004-2005).
The use of indicator amino acid oxidation to determine amino acid requirements. Pencharz P, Ball R. Medical Research Council/ Canadian Institutes of Health Research ($108,912 2004).

The use of indicator amino acid oxidation to determine amino acid requirements. Pencharz P, Ball R. Medical Research Council/ Canadian Institutes of Health Research ($152,960 2005).


Clinician Scientist training program in clinical nutrition research. Pencharz P. Canadian Institutes of Health Research ($265,000 2004-2005).


Disordered hepatocellular Cu handling in the Tx-J mouse, a model of Wilson Disease. Roberts EA. Canadian Institutes of Health Research ($74,699 2004 and $73,640 2005).


UCP-2 expression in Wilsonian mice. Lau C (Supervisor: Roberts EA). Life Sciences Undergraduate Research Opportunity Program, Department of Pharmacology ($2,400 summer 2005).


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


International collaboration project. Zlotkin S. Canadian Institutes of Health Research ($25,000 2005-2006).


Excellence

Division Head
Dr. Victor Blanchette

Full-Time
Dr. Oussama Abla
Dr. Sylvain Baruchel
Dr. Ute Bartels
Dr. Eric Bouffet
Dr. Leonardo Brandao
Dr. Michael Capra
Dr. Manuel Carcao
Dr. Helen Chan
Dr. John Doyle
Dr. Yigal Dror
Dr. Adam Gassas
Dr. Ron Grant
Dr. Hans Hitzler
Dr. Annie Huang
Dr. Meredith Irwin
Dr. Walter Kahr
Dr. Melanie Kirby
Dr. David Malkin

Cross-Appointees/Part-Time
Dr. Ahmed Naqvi
Dr. Paul Nathan
Dr. Alberto Pappo
Dr. Lillian Sung
Dr. Sheila Weitzman
Dr. Suzan Williams

Dr. Stephen Comay
Dr. Lee Ann Gallant
Dr. Mark Greenberg
Dr. David Hodgson
Dr. Nicole Inch
Dr. Normand Laperriere
Dr. Barbara-Ann Millar
Dr. Jill Solomon
Dr. Aubrey Maze
Dr. Fred Saunders
Committed to excellence in the investigation and management of children with cancer and serious blood disorders

HAEMATOLOGY/ONCOLOGY

The Division of Haematology/Oncology is responsible for the investigation and management of children with cancer and serious blood disorders followed in the inpatient and outpatient services at The Hospital for Sick Children. In addition, the division, in collaboration with the Division of Immunology, has responsibility for the Ministry of Health designated program for paediatric hematopoietic stem cell transplantation in the province of Ontario. Currently, there are 25 full-time paediatric haematologists/oncologists in the division; the most recent addition being Dr. Ute Bartels who joined the division in 2005.

The division is committed to excellence in the area of investigation and clinical care of children with cancer and blood disorders. In order to focus resources and to facilitate the delivery of care by expert multidisciplinary teams, the division is organized into six sections and three programs, as follows: Leukemia/Lymphoma section (Dr. Ron Grant, section head); Solid Tumour section (Dr. Alberto Pappo, section head); NeuroOncology section (Dr. Eric Bouffet, section head); Bone Marrow Transplantation section (Dr. John Doyle, section head); Haematology section (Dr. Victor Blanchette, section head); Inpatient Services section (Dr. Ahmed Nagui, section head); AfterCare Program (Dr. Mark Greenberg, director); Cancer Genetics Program (Drs. David Malkin and Rosanna Weksberg, co-directors); and the New Agents and Innovative Therapies Program (Dr. Sylvain Baruchel, director). Within the Haematology section, there are large programs in hemostasis (bleeding and clotting disorders) and the hemoglobinopathies (the thalassemias and sickle cell syndromes). Dr. Yigal Dror is director of a unique paediatric bone marrow failure and myelodysplasia program within the division's Haematology section. Dr. Sheila Weitzman acts as an expert resource regarding the assessment and management of children with rare histiocytic disorders, both within SickKids and worldwide.

A major focus of the division is the enrolment of children with cancer and blood disorders into ethically approved clinical trials; the division is a member of the Children's Oncology Group (COG) and is one of only two Canadian centres in the Phase I Consortium of COG. During the past year, the Leukemia/Lymphoma Section in the division, represented by Dr. Hans Hitzler, has formally joined the German (Berlin-Frankfurt-Munster, BFM) Leukemia/Lymphoma Research Consortium in order to facilitate entry of children with relapsed leukemia into BFM clinical trials. A major achievement over the past year has been the very positive impact of the nine-bed satellite haematology/oncology inpatient unit on the 7th floor. This added resource has resulted in a significant reduction in the number of cases admitted to “off-service” (non-haematology/oncology) inpatient beds and, most important, to fewer deferrals of admission of children with cancer for planned chemotherapy. Growth of activity in paediatric haematology/oncology satellites in the Greater Toronto Area continues, highlighted by the opening of a new haematology/oncology satellite in the Rouge Valley Health Centre. As part of a pilot project, the Paediatric Brain Tumour Program (PBTP) and Family Health Media Group (FHMG) have collaborated to create an interactive web site to serve families of children with brain tumours, which was launched in 2004 with more than 200 pages of material (www.familyhealthcentre.ca). The FHMG includes paediatric specialists, medical journalists, a medical illustrator, a Flash animator, a creative director, a user experience consultant, and a team of Web developers. Interdisciplinary members of the PBTP provided expert content and a monthly newsletter.

The division continues to provide specialist training in paediatric haematology/oncology to Canadian trainees, and as well to a large number of trainees from overseas, most of whom are funded by their home country. The year 2005 will mark the changeover from the current two-year to the new three-year training program approved by the Royal College of Physicians and Surgeons of Canada. Dr. Michael Capra, training program director and director of the division’s education program, is overseeing the transition from the old to the new training program.
Research in the division includes clinical, translational and basic science studies and is very active.

HO\textsc{N}OURS A\textsc{N}D A\textsc{W}ARDS


Capra M. Best Grand Rounds Presentation, Division of Paediatric Emergency Medicine, Department of Paediatrics, University of Toronto, The Hospital for Sick Children, 2004-2005.

Carcao M. Appointed Vice-President of the Association of Hemophilia Clinic Directors of Canada, 2004.

Kirby M. The Al\textsc{V}in Zipursky Teaching Award, Division of Haematology/Oncology, Department of Paediatrics, University of Toronto, The Hospital for Sick Children, 2004.

Pappo A. The Al\textsc{V}in Zipursky Teaching Award in recognition for outstanding contribution to medical education and mentorship, The Hospital for Sick Children, 2005.

Sung L. Andrew Sass-Korsak Clinician Scientist award, awarded to a post-doctoral fellow based on publications, research projects, and contributions to his/her program and the Research Institute, 2004.

Sung L. New investigator award with the Canadian Child Health Clinician Scientist Program, 2005.

PUBLICATIONS


Darbepoetin and chronic anemia of EB. Doyle J. Canadian Institutes of Health Research ($2,000 2003-2004).

Defining the clinical phenotype of inherited marrow failure syndromes and the risk factors of severe haematological complications and cancer by the Canadian Inherited Marrow Failure Registry (CIMFR). Dror Y. Council of Canadian Paediatric Haematology/Oncology Directors Research Network ($83,000 2005-2007).

Determining the potential for drug interactions between Natural Health Products (NHPs) and chemotherapy in a paediatric oncology population. Baruchel S, Mills E, Guyatt G, Koren G, Seely D, Stempak D, Zelunka E. The Hospital for Sick Children ($130,000 2005).


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

Genetic risk factors for CVA in children with HbSS. Kirby M. National Institutes of Health ($1,214,36 2002-2006).

Health-related quality of life in survivors of neuroblastoma who have undergone megatherapy and autologous hematopoietic reconstitution: A cross-sectional study. Rabb R, Doyle J. Paediatric Oncology Group of Ontario ($9,000 2003-2005).


Impact of neutrophil function and neutrophil levels on oral diseases and susceptibility to infection in neutropenic patients. Glogauer M, Dror Y. SickKids 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).


Neuro-cognitive late effects of posterior fossa tumors in childhood. M abbott D, Bouffet E, b.r.a.i.n.child ($32,000 2002-2004).


Optimizing primary stroke prevention in children with sickle cell anemia STOP. Kirby M, National Institutes of Health ($15,000 2004-2005).


Role of N-myc and gene amplification in neuroblastoma. Huang A, Penn L, Squire J. Eli Lilly-Cancer Care Ontario Clinician Scientist Award. Eli Lilly, Cancer Care Ontario, Canadian Institute of Health and Research ($150,000 2002-2004).

Steroid-induced osteoporosis in the paediatric population - Canadian incidence study (STOPP-CIS). Ward L, Grant RM. Canadian Institutes of Health and Research ($638,280 2004).

Survey on inhibitor development and management in several populations of Canadian patients with hemophilia A. Carcao M D, Blanchette V, Feldman B, Barnes C. Bayer Inc. ($99,000 2004-2005).


The treatment of optic pathway gliomas in childhood. Nicolin G, Bouffet E, b.r.a.i.n.child ($14,000 2005).


Vision

**Division Head**
Dr. Chaim Roifman

**Full-Time**
Dr. Adelle Atkinson
Dr. Eyal Grunebaum

**Part-Time**
Dr. Milton Gold
Dr. David Hummel
Dr. Howard Langer
Dr. Sasson Lavi
Dr. Maria Triassi

**Clinical Fellows**
Dr. Reza Alizadehfar
Dr. Daifullah Alzahrani
Dr. Judy Donsky
Dr. Raffael Guggenheim
Dr. M artham Hussain
Dr. Yew Hon Lai
Dr. Elana Lavine
Dr. Yehuda Nofech-Mozes
Dr. Raz Somech

**Clinical Assistant**
Dr. Sean Bulley

**Immunology Nurse**
Brenda Reid, CNS

**Allergy Nurses**
Dione Bonsall
Kimberley Seaban
Elisabeth White

**Senior Scientists**
Dr. Amos Cohen
Dr. Sergio Grinstein

**Research Associates**
Dr. Peter Demin
Dr. Nigel Sharfe

**Research Technologists**
Lorand Cimpeon
Tom Gruneberger
Yiping Gu
Martina Nikolic
Olga Rounova
Ana Toro
Wilma Vanek
J unYan Zhang

**Medical Lab Technologists**
Stasia Jackowitz
Dr. Harjit Dadi

**Administrative Staff**
Sandra Mendonca
Stephanie Pacheco
Linda Quintal
Sabrina Wojcik
Under the guidance of Dr. Chaim Roifman, The Division of Immunology/Allergy prevails as a leader in primary immune deficiencies (PID). To further national awareness and diagnosis of primary immunodeficiency, Dr. Roifman has recently obtained the support from the J effrey M odell Foundation (J M F) and the Canadian Immunodeficiency Society (CIS) to establish The J efrey M odell Canadian Immunodeficiency Network (J M CIN). The J M CIN is a national program that will facilitate early recognition, diagnosis, research and effective treatment of PIDs, while increasing overall awareness. Sites have been implemented in Halifax, Montreal, Winnipeg, Calgary, Edmonton and Vancouver to ensure knowledge dissemination and communication between health care professionals, patients and the general public. In addition to this, the J M CIN will provide access to excellent care for PID patients throughout Canada.

The bone marrow transplantation (BMT) program for PID patients here in the Division of Immunology/Allergy remains at the forefront for patient survival globally. Evaluation of BMT from matched unrelated donors (MUD) in severe combined immune deficiency (SCID) illustrated a 78 per cent overall survival rate for our patients, in comparison to a 54 per cent survival rate in similar patients treated in European centers with mismatched related donor BMTs. This accomplishment is currently considered for publication in J AM A. As a consequence, the concept of using M UD will likely become the preferred modality of treatment for SCID.

Research in the division continues to flourish, by means of funding and publications. Of special note, are the recent discoveries of additional novel mutations in primary immunodeficiencies, the role of Eph receptors in the immune system, the development of novel compounds with the ability to kill cancer cells in vitro and in vivo, and the establishment of gene therapy for PNP deficiency knockout mice. This year, we demonstrated for the first time that mutations in RMRP RNA gene are associated with Omenn Syndrome. This finding has prompted testing of these patients for aberrations in RMRP allowing for earlier diagnosis of cartilage hair hypoplasia.

To honour these accomplishments, Dr. Roifman was chosen as the recipient of 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. Similarly, Dr. Sergio Grinstein was awarded the Michael Smith Award by the Canadian Institute of Health Research for his outstanding research in biochemistry and cell biology.

Teaching in our division remains fully approved by the Royal College of Physicians and Surgeons of Canada. Residents and fellows from all over Canada and the world have benefited from their training within our division. Recently, our division has been awarded continuation of our special Bayer fellowship program. This will allow for the continued support of fellows from other Canadian programs to spend a year in Immunology at SickKids. Similarly, Tel-Aviv University in Israel continues to sponsor a training program in Paediatric Allergy and Clinical Immunology for its graduates. In recognition of our division’s dedication to the education of aspiring immunologists, the Canadian Immunodeficiency Society (CIS) awarded Dr. Adelle Atkinson the Physicians Awareness Initiative Award, and certified nurse specialist, Brenda Reid, the Nursing Awareness Initiative Award.
HONOURS AND AWARDS
Grinstein S. Michael Smith Award, Canadian Institutes of Health Research, 2004.


BOOK CHAPTERS AND INVITED REVIEWS
FUNDING
Canadian Centre for Primary Immunodeficiency. Roifman CM. Jeffrey Modell Foundation ($296,000 2001-2009).
Correcting purine nucleoside phosphorylase (PNP) deficiency by intracellular delivery of human PNP combined with the HIV-TAT protein transduction domain. Eyal E. Canadian Institute of Health Research ($100,000 2004-2005).
Development of compounds for the treatment of leukaemia and lymphoma. Roifman CM. LymphoSign Inc. ($2,600,000 2001-2005).
Imaging faculty: M ulti-user maintenance. Grinstein S. Canadian Institutes of Health Research ($222,690 2002-2005).
Nurses Awareness Initiative Education grant. Reid B. Canadian Immunodeficiency Society ($15,000 2004-2005).
Rapid IVIG administration, a multi-center international study. Roifman CM. Bayer ($65,000 2003-2005).
Targeting and regulation of ion transporters. Grinstein S. Canadian Institutes of Health Research ($804,500 2004-2009).
Ideas

Division Head
Dr. Upton D. Allen

Full-Time
Dr. Sean Ari Bitnun
Dr. E. Lee Ford-Jones
Dr. Anne G. Matlow
Dr. Anne Opavsky
Dr. Stanley E. Read
Dr.Dat Tran
Dr. Valerie Waters

Part-Time
Dr. Ian Kitai
Dr. Alana Rosenthal
Dr. Anupma Wadhwa

Cross-Appointees
Dr. Marvin Gans
Dr. Susan Richardson
Dr. Sharon Walmsley
Dr. Elaine Wang

Honorary
Dr. Ronald Gold
Dr. Susan King

Clinical Fellows
Dr. Youness Al-Darazi
Dr. Abdulkader Al-Rezqi
Dr. Michelle Barton-Forbes
Dr. Jason Brophy
Dr. Frankie Chen

Dr. Abdulkader Dahi
Dr. Deepa Grewal
Dr. Michael Hawkes
Dr. Marcela Hernandez
Dr. Meng Lim
Dr. Laura Sauve

Research Fellow
Dr. Maryanne Crockett

Research Associates
Adriana Costei
Samia Guindy-Wasfy
Nasser Khodai Booran

Administrative Staff
Brenda Bishop
Juliet Khan
Toula Myriklis
Bebi Wali
Sue Weller
The Division of Infectious Diseases plays a leadership role in clinical, educational and research areas, locally, nationally and internationally. The division has active inpatient as well as ambulatory consultant services that include teams that focus on general infectious diseases and infectious diseases in immunocompromised hosts, respectively. We are a resource for issues related to infectious disease outbreaks, including new and emerging infections, 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 Paediatric Society and Health Canada, the American Society for Transplantation, as well as consultancy 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, 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.

INFECTION DISEASES

A resource for issues related to new and emerging infections, 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 research initiatives are structured around themes that include host susceptibility and related factors and innovative antimicrobial and associated therapies.


BOOK CHAPTERS


FUNDING


A pilot study to describe the incidence rate and clinical features of human metapneumovirus (HMPV) infection of the lower respiratory tract in hospitalized children at high risk for severe disease. Allen UD, W einstein M, Richardson S, Bitnun A. M edImmune ($14,230 plus overhead 2004-2005).


A multi-national, prospective cohort study to evaluate the incidence and outcome of Staphylococcal sepsis in neonates with a gestational age between 24 and < 33 weeks. Allen UD, M oore A, M atlow A. GlaxoSmithKline and Biosynexus Inc. ($15,000 estimated based on $1000 per patient) 2003-2004).

Valganciclovir safety and PK study in transplant recipients. Allen UD, Hébert D. Hoffman La Roche ($35,609 for 4 patients enrolled).


Tuberculosis immunity in childhood. Lewishon D, Kitai I, Loeffler A, Oregon Health Sciences University. Subgrant from National Institutes of Health ($11,000 2005-2008).


A 48-week, phase II, open-label, multi-cohort, multicenter study to evaluate the safety, tolerability, pharmacokinetics and antiviral activity of GW433908/ritonavir QD when administered to HIV-1 infected, anti-retroviral naive and experienced, pediatric subjects, 2 to 18 years. Read S, B itnun A, Site investigators, M anion M, Co ordinator, M ulticenter study. GlaxoSmithKline ($40,000 2003-2005).


Transmission of viruses following occupational exposure to body fluids: Resident trainees’ knowledge and exposure history. Rosenthal A. C hildren’s Hospital of Eastern Ontario, Research Institute ($1,690 2004).
Cooperation

**Division Head**
Dr. Keith Tanswell

**Full-Time**
Dr. Jacques Belik
Dr. Jonathan Hellmann
Dr. Andrew James
Dr. Jae Kim
Dr. Kyong-Soon Lee
Dr. Patrick McNamara

Dr. Aideen Moore
Dr. Christine Newman
Dr. Hilary Whyte

**Part-Time**
Dr. Rosemary Moodie

**Adjunct**
Dr. Xiaoping Luo

**Honorary Faculty**
Dr. Max Perlman

**Mount Sinai**
Dr. Yenge Diambomba
Dr. Ann Jefferies
Dr. Edmond Kelly
Dr. Karel O'Brien
Dr. Arne Ohlsson
Dr. Prakesh Shah
Dr. Vibhuti Shah
Dr. Sharon Unger
Dr. Kin Fan Young Tai

**St. Michael's**
Dr. Tony Barozzino
Dr. Douglas Campbell
Dr. Michael Sgro
The Neonatal Perinatal Fellowship Training Programme trains the largest number of subspecialty trainees in neonatology of any centre in Canada.


BOOK CHAPTERS

FUNDING
Application of novel ultrasound techniques for basic and translational research models. Belik J. Canadian Institutes of Health Research/Equipment grant ($184,335 2004-2005).
Canadian Cochrane Network and Centre. Ohlsson A. Canadian Institutes of Health Research ($1,000,000 2000-2005).
Canadian Research Chair (Tier I) in Fetal, Neonatal and Maternal Health. Post M. Canadian Chair Award ($200,000 per year 2000-2006).
Clinician Scientist Training Award. J ankov 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 (thesis project). The Lung Association ($14,000 2004-2005).
Mechanisms and mediators of pulmonary oxygen toxicity. Tanswell A K. Canadian Institutes of Health Research ($82,422 per year 1999-2004).


Regulation of normal and oxygen-mediated aberrant postnatal lung growth by growth factors. Tanswell AK. Canadian Institutes of Health Research ($133,281 per year 2005-2010).


Role of Rho-kinase in hyperoxia-mediated pulmonary hypertension. J ankov RP. Dean's Fund New Staff Grants Program, Faculty of Medicine, University of Toronto ($10,000 2004).


Thyroid hormone and infant visual processing development. Rovet J, Westall C, Asztalos E. Canadian Institutes of Health Research ($16,540 2001-2006).


Division Head
Dr. Denis F. Geary

Full-Time
Dr. Elizabeth Harvey
Dr. Diane Hébert
Dr. Valerie Langlois
Dr. Tino D. Piscione
Dr. Lisa Robinson
Dr. Norman D. Rosenblum

Part-Time
Dr. Rachel Pearl

Honorary
Dr. Gerald S. Arbus

Clinical Fellows
Dr. Clodagh Sweeney
Dr. Daljit Hothi
Dr. Tonya Kara
Dr. Ruth Schreiber
Dr. Yap Yok Chin

Subspecialty Residents
Dr. Marion Cummings
Dr. Susan Koshy

Clinical Research Fellows
Dr. Todd Alexander
Dr. Anne Durkan

Clinical Research Associate
Laura Keating

Administrative Staff
Dana Debernyj
Shelley McGrath
Judith McNicoll
Juliet Rodrigo
During the past year, the Division of Nephrology has maintained a substantial level of clinical activity – sustaining the increase noted over the past few years. Also, an expanded clinical role has been encouraged for part-time staff members practicing paediatric nephrology in major centers of the Toronto Child Health Network.

Paediatric nephrology trainees have included doctors from New Zealand, Israel, and the U.K., as well as three Canadians. Their success is measured internally by Dr. Todd Alexander’s receipt of the Research Award at Resident Research Day 2004, as well as his acceptance into the Canadian Child Health Clinician Scientist Program.

Drs. Rosenblum and Robinson were each awarded a Canada Research Chair. Similarly, Dr. Hébert maintained a leadership role in the Canadian Association of Pediatric Nephrologists, and also within the NAPRTCS Clinical Sites Committee. Dr. Geary was appointed to the steering committee of the Midwest Pediatric Nephrology Consortium.

On the research front, the division members made numerous presentations nationally and internationally, and Drs. Rosenblum, Piscione, and Robinson were successful in their funding applications to the CIHR, the Kidney Foundation, and the Heart and Stroke Foundation, respectively. Dr. Piscione was successful in his appointment as a scientist in the Research Institute.

The major short-term goals of the division are to complete the recruitment of a clinician-investigator, and to improve the clinical research productivity by both staff doctors and clinical trainees.

HONOURS AND AWARDS
Piscione TD. Biomedical Scholarship, The Kidney Foundation of Canada ($45,000 per year 2004-2006).


Robinson LA. Canada Research Chair Tier 2, 2004.

Rosenblum ND. Canada Research Chair in Developmental Nephrology Research Award, The Hospital for Sick Children, 2005.

PUBLICATIONS


BOOK CHAPTERS


FUNDING
Beta-catenin signaling in polycystic kidney and liver disease. Rosenblum ND. Canada Research Chair, SickKids Foundation ($1,800,000 2002-2008).

Control of branching morphogenesis in the normal and dysplastic kidney. Rosenblum ND. Canadian Institutes of Health Research ($743,800 2003-2008).


Smad-beta-catenin interactions in cystic kidney disease. Rosenblum ND. Kidney Foundation of Canada ($100,000 2004-2006).

Steroid-induced osteoporosis in the pediatric population. RAND. Kidney Foundation of Canada ($200,000 2006-2009).

Smad-beta-catenin interactions in cystic kidney disease. Rosenblum ND. Kidney Foundation of Canada ($100,000 2004-2006).


The role of Notch1 in kidney development. Pistone T, Radtke F, Ellis J, Quaggin S. The Kidney Foundation of Canada ($49,870 per year 2004-2007).

The role of Silt/Robo signaling in renal inflammation. Robinson L. Canada Research Chair, Tier 2 ($500,000 2004-2009).
Achievement

Division Head
Dr. O. Carter Snead III

Full-Time
Dr. Brenda Banwell
Dr. Gabrielle deVeber
Dr. Elizabeth Donner
Dr. Daune MacGregor
Dr. Berge Minassian
Dr. Teesta Soman

Part-Time
Dr. Ingrid Tein
Dr. Jiri Vajgar
Dr. Shelly Weiss

Scientific Staff
Dr. Miguel Cortez
Dr. Tom Humphries
Dr. M aureen Lovett
Dr. James MacFarlane
Dr. Hiroshi Otsubo
Dr. Elizabeth Pang
Dr. Mary Lou Smith
Dr. Margot Taylor
Dr. Jose Luis Perez Velazquez

Achievement

Dr. Betty Koo
Dr. Wayne Langburt
Dr. William Logan
Dr. John Lovering
Dr. Gilbert Miller
Dr. Peter Rumney

Honourary
Dr. Douglas McGreal
Dr. E. Gordon Murphy
Dr. Diann Superina-Bell
Research is focused on epilepsy (both clinical and basic research), magnetoencephalography, stroke, dyslexia, burden of disease and quality of life, muscular dystrophy, multiple sclerosis, fatty acid oxidation disorders, and molecular and cellular neurobiology.

**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, and functional neuroimaging.

The Division of Neurology has a Royal College accredited training program in Child Neurology, as well as postdoctoral training programs in epilepsy and stroke. In addition, there are a number of graduate students and postdoctoral fellows in clinical neurophysiology and molecular and cellular neurobiology.

Research in the Division of Neurology is focused on epilepsy (both clinical and basic research), magnetoencephalography, stroke, dyslexia, burden of disease and quality of life, muscular dystrophy, multiple sclerosis, fatty acid oxidation disorders, and molecular and cellular neurobiology.

**HONOURS AND AWARDS**

Snead OC. Each year the Child Neurology Society in the United States names the recipient of the Bernard Sachs Award to designate an individual of international status who has conducted outstanding research in neuroscience relevant to children with neurological disorders. This is generally considered in Child Neurology circles to represent a lifetime achievement award in paediatric neuroscience. This year, Dr. O. Carter Snead, Head, Division of Neurology here at The Hospital for Sick Children, was selected by the Child Neurology Awards Committee to be this year’s recipient of this award. Dr. Snead will be accepting the award and will give a lecture in honor of Dr. Sachs in Los Angeles in September 2005.

Sell E. Clinical Fellow in Neurology is one of two recipients of this year’s Student Humanitarian Awards (SickKids Foundation). This award was created to honour students at the hospital who are particularly compassionate to patients and their families in their provision of care.

Rafay M. Clinical Fellow in Neurology, has won the 17th Annual Canadian Paediatric Residents and Fellows Competition in the Paediatric Subspecialty (Fellows) category for her study entitled, “Predictive value of seizure and EEG features in the diagnosis of neonatal stroke and HIE.”


MacGregor DL. Teacher of the Year Award, Division of Neurology, The Hospital for Sick Children, 2005.

Tein I. Detweiler Travelling Fellowship, awarded by the Royal College of Physicians and Surgeons of Canada for support of Dr. Tein’s sabbatical in Pediatric Metabolic Exercise Physiology, 2004-2005.

**PUBLICATIONS**


Dr. O. Carter Snead was named the recipient of the Bernard Sachs Award, which designates an individual of international status who has conducted outstanding research in neuroscience relevant to children with neurological disorders.


BOOK CHAPTERS


Correction of Ret phenotype by exogenous gene delivery. Sneed OC. Canadian Institutes of Health Research ($224,315 2002-2004).

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


FUNDING


DEPARTMENT OF PAEDIATRICS, Annual Report 2004-2005 79


International pediatric stroke study, Phase II. deVeber G. Canadian Stroke Network ($76,000 2005-2007).


Molecular genetics and functional studies in Lafora’s progressive myoclonic epilepsy. Minassian BA, Scherer SW. National Institutes of Health ($121,170 2004-2006).


M urine succinate semialdehyde dehydrogenase deficiency: An epileptic disorder with elevated CNS GABA. OC. Epilepsy Foundation/Partnership for Pediatric Epilepsy Research ($100,000 2003-2006).

Neuroimaging, Snead OC. Ontario Research Development Challenge Fund ($800,000 2001-2006).

Reading comprehension of adolescents with attention deficit hyperactivity disorder and learning disabilities. Wiener J, Humphries T, Malone M, Tannock R. Social Sciences and Humanities Research Council ($143,877 2005-2008).


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).

Role of the carnitine/organic cation transporters in the mammary gland and implications for the suckling infant. Tein I. Mead-Johnson Grant ($8,500 2004-2005).

Self perception, behavioural attributions and perceptions of social relationships of adolescents with attention deficit hyperactivity disorder and learning disabilities. Wiener J, Humphries T, Malone M, Tannock R. Social Sciences and Humanities Research Council ($143,877 2005-2008).

Stroke Investigators Award “Research Scholar”. deVeber GA. Heart and Stroke Foundation ($260,000 2001-2006).


The Children’s Stroke Project. deVeber GA. Anonymous Children’s Foundation ($8,500,000 2001-2006).


The T265Dn mice model. Cortez MA. SickKids Foundation ($5,000 2005-2006).


Toward the development of pediatric stroke RCTs. deVeber G. National Institute of Neurological Diseases and Stroke ($96,000 2004).


Wong G (Student). Snead OC. Heart and Stroke Fellowship ($20,000 2002-2004).
Q uality

Division Head
Dr. William Mounstephen

Full-Time
Dr. Susanna Benseler
Dr. Kathy Boutis
Dr. Stephen Freedman
Dr. Ran Goldman
Dr. Shauna Jain
Dr. Anna Jarvis
Dr. Kelly Keogh
Dr. Luba Komar
Dr. Amina Lalani
Dr. Angelo Mikrogianakis
Dr. Bruce M Innes
Dr. J onathan Pirie
Dr. Savithiri Ratnapalan
Dr. Susan Schneeweiß
Dr. Suzanne Schuh
Dr. Dennis Scolnik
Dr. J ennifer Thull-Freedman

Part-Time
Dr. Sherry Baine
Dr. Stephen Baker
Dr. Carolyn Calpin
Dr. Kevin Chan
Dr. Gail Churchill
Dr. Carlos Contreras
Dr. Sheila David
Dr. Anh Do
Dr. Katy Driver
Dr. J anine Flanagan

Dr. John Freedman
Dr. Claudia Fregonas
Dr. Sabine George
Dr. Cara Gilman
Dr. Peter Glazer
Dr. Donna Goldenberg
Dr. Massoud Grouhi
Dr. Shuja Hafiz
Dr. Mark Handley-Derry
Dr. Leah Harrington
Dr. Tommy Ho
Dr. Nicole Inch

Dr. J ayal Isliur
Dr. Nicole Johnson
Dr. Sohail Khattak
Dr. Tanuja Kodeeswaran
Dr. Eddy Lau
Dr. Yen Le
Dr. Peter Lewin
Dr. Lani Lieberman
Dr. Patricia Linders
Dr. Karen Mandel
Over the last year, we have worked to further 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.

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 a primary care centre for children in Toronto, plus the tertiary referral centre for the Greater Toronto Area (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 SickKids to further 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 members have joined the division – Dr. Susanne Benseler, Dr. Stephen Freedman and Dr. Jennifer Thull-Freedman.

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

Research in the division remains clinically focused, covering a wide range of topics from respiratory disease acute care management, orthopaedic injuries, pain and sedation, to drug errors. 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 have spent the last year getting their research endeavours going. Overall, a substantial increase in clinical research activities has resulted which has set us on par with the other North American leaders in paediatric emergency medicine.
PUBLICATIONS


BOOK CHAPTERS


FUNDING


Randomized trial of oral disintegrating Ondansetron tablet to reduce vomiting from acute gastroenteritis in a pediatric emergency department. Freedman SB, Powell EC. GlaxoSmithKline ($US84,212 2003-2005).


Division Head
Dr. Jeremy Friedman

Full-Time
Dr. Stacey E. Bernstein
Dr. Carolyn Beck
Dr. Catherine Birken
Dr. Beth D. Gamulka
Dr. Robert I. Hilliard
Dr. Sanjay Mahant
Dr. Marcellina Mian
Dr. Patricia Parkin
Dr. Elena Pope
Dr. Michelle Shouldice
Dr. Susan E. Tallett
Dr. Michael Weinstein

Major Part-Time
Dr. Mark E. Feldman
Dr. Marvin Gans
Dr. Saul Greenberg
Dr. Moshe M. Ipp
Dr. Sheila Jacobson
Dr. Michael Peer

Part-Time
Dr. Anthony (Tony) Barozzino
Dr. Glenn B. Berall
Dr. Alan Berzen
Dr. Bonnie J. Cameron
Dr. Salvatore (Sam) Cammisuli
Dr. Till A. Davy
Dr. Paul T. Dick

Dr. Norman R. Saunders
Dr. Miriam Weinstein
Dr. Anthony S.R. Duke
Dr. Michelle Farine
Dr. Leona Fishman
Dr. J ohn S. Freedman
Dr. Lee Ann Gallant
Dr. Hartley Garfield
Dr. Sabine R. George
Dr. Morton Goldbach
Dr. Stuart Goldner
Dr. Astrid Gutmann
Dr. J ohn S. Lovering
Dr. Colin Macarthur
Dr. Ghilda M. Ilo-Manson

Dr. James M. Dorey
Dr. Anthony Y.T. Hui
Dr. Ian C. Kitai
Dr. Beverley Kupfert
Dr. Cinda B.S. Lee
Dr. Alex V. Levin
Dr. Leo Levin
Dr. Peter K. Lewin
Dr. Patricia M. Linders
Dr. J ohn S. Lovering
Dr. Colin Macarthur
Dr. Ghilda M. Ilo-Manson

Dr. Paul M unk
Dr. Raymond C.W. Ng
Dr. S. Joseph Porepa
Dr. Percy Rajchgot
Dr. Clive J. Schwartz
Dr. Michael Sgro
Dr. David H. Shawn
Dr. Gary Sibbald
Dr. J ohn S. Lovering
Dr. Christine Webster
Dr. J effrey J. Weisbrot
Dr. Sheldon A. Wise
Formed a number of years ago through the amalgamation of three separate divisions: General Paediatrics, Paediatric Dermatology and Suspected Child Abuse and Neglect (SCAN).

PAEDIATRIC MEDICINE

A common question asked of us is: 'What exactly is Paediatric Medicine – isn't the whole of SickKids paediatric medicine?' Well no... but yes, our activities do result in our involvement in patient care, teaching and research in many parts of the hospital, as well as in the community outside of SickKids. We are the second largest division in the Department of Paediatrics and were formed a number of years ago through the amalgamation of three separate divisions: General Paediatrics, Paediatric Dermatology and Suspected Child Abuse and Neglect (SCAN). There are 13 full-time faculty, 8 major part-timers (who spend anywhere from 30-50 per cent of their time involved in SickKids activities) and many of the general paediatricians in Toronto have maintained an associate or honorary appointment with the hospital through our division.

The Paediatric Medicine inpatient unit is split into three teams and is the biggest inpatient service in the hospital with an average of 50 to 60 patients (about 20 per cent of the hospital total) cared for on a daily basis. Children are admitted to Paediatric Medicine for many different reasons. Some have general paediatric problems such as asthma, bronchiolitis, sickle cell disease, Kawasaki disease and urinary tract infections. Others have complex chronic problems involving many different systems, including genetic/metabolic diseases, severe developmental delay, and cerebral palsy. A large number of very ill children are admitted with no diagnosis who require multiple investigations and consultations prior to diagnosing their underlying problem. There are separate consultation teams for General Paediatrics, Dermatology and SCAN which provide 24/7 service to the rest of the hospital. Children are also referred by paediatricians to the tertiary care ambulatory clinics in Dermatology, Paediatric Medicine and SCAN. Most of the services offered in these clinics cannot be found elsewhere in the city. In addition, over 100 part-time faculty members contribute through their work, particularly by teaching trainees in their offices, through our Section of Community Paediatrics. This section has been used as a model by the University of Toronto for linking community physicians with the teaching hospitals.

Paediatric Medicine provides much of the department's leadership in education with Drs. Susan Tallett and Marcellina Mian responsible for postgraduate and undergraduate medical education. Our faculty members provide a major contribution to the education of trainees at all levels, including nurse practitioners, medical students, paediatric residents and fellows. We have fellows training in paediatric medicine, paediatric dermatology and child maltreatment. The interest in our fellowship training programs has continued to grow with an ever increasing number of applicants from our own residency program, as well as from around the world.

This year's departmental Awards Day Celebration once again recognized the quality of the divisional contribution to the Department of Paediatrics. The Lionel Weinstein Clerkship Teaching Award was won by Dr. Eddy Lau, with Dr. Douglas Campbell as runner-up. The Harry Bain Resident Teaching Award was won by Dr. Sanjay M ahant with Dr. Tallett as runner-up. The Marvin Gerstein Teaching Award for part-timers was won by Dr. Michael Peer, with Dr. Norman Saunders as runner-up. Continuing Education Awards went to Drs. Elena Pope and Miriam Weinstein for course coordination, as well as to Dr. M ian for her long-term contribution. Dr. Michael Weinstein was the winner of the J unior Faculty Clinical Award for excellence in paediatric medical care (the third member of our faculty to win this award in its five year existence).
Divisional research activities are broad, based on epidemiologic methods, and range from studies of common paediatric problems to issues involving the complex child with chronic illness. 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. In the last year, they have contributed to over 30 peer-reviewed publications and have obtained well over a million dollars in grants. Dr. Shulman (supervisor: Dr. A. Guttmann) won first place in the residents’ poster competition at the Annual Residents and Fellows Research Day.

HONOURS AND AWARDS
Lau E. Lionel Weinstein Clerkship Teaching Award, 2005.
Mahant S. Dr. Harry Bain Award for Excellence in Teaching, 2005.
Peer M. Marvin Gerstein Award, 2005.
Pope E. Weinstein M. Continuing Education Award for Course Co-ordination, Dermatology Update 2004.
Mian M. Continuing Education Award for Long-term Contribution, 2005.
Weinstein M. Award for Clinical Excellence in Paediatric Medical Care, 2005.

PUBLICATIONS


Role of telecommunication in augmentative and alternative communications. Macarthur C. Bell Canada ($150,000 2005-2007).


Division Head
Dr. Felix Ratjen

Full-Time
Dr. Allan L Coates
Dr. Sharon Dell
Dr. Ian B MacLusky
Dr. Hugh O’Brodovich
Dr. Melinda Solomon
Dr. Padmaja Subbarao
Dr. Neil B Sweezey

Part-Time
Dr. Peter Bikangaga
Dr. James MacFarlane
Dr. Theo Moraes
Dr. Charlotte D’E. Miller

Adjunct Scientist
Dr. Hiran Selvadurai

Honorary Faculty
Dr. Charles K-N Chan
Dr. Gregory Downey

Clinical Fellows
Dr. Elaine Chan
Dr. Tanya Gulliver
Dr. Indra Narang

Clinical Research Fellow
Dr. Nael Elias

Subspecialty Residents
Dr. Suhail Al-Saleh
Dr. Tauyee Hsieh
Dr. Joanna MacLean
Dr. April Price
Dr. Anwar Sallam

Administrative Staff
Jennifer Chay
Victoria Snell
The lung transplant program is now in its tenth year and is the largest paediatric lung transplant program in the country.

RESPIRATORY MEDICINE

The Respiratory Medicine Program provides comprehensive care for the full range of paediatric pulmonary diseases such as severe asthma, cystic fibrosis, interstitial lung diseases, 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 care for children with sleep apnea, sleep-related respiratory insufficiency, as well as being affiliated with the Divisions of Neurology and Paediatric Medicine in caring for children with complex neuro-behavioural sleep disorders. 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 recent addition of an infant pulmonary function laboratory has broadened the potential for diagnostic tools to objectively assess lung disease in infants and young children.

As part of the Toronto Lung Transplantation Program, the division also provides pre- and post-transplantation care for children with end-stage lung disease. The Lung Transplant Program is now in its tenth year and is the largest paediatric lung transplant program in the country.

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 division continues to be the largest training program for paediatric respiratory medicine in Canada.

Dr. Felix Ratjen joined the division in April 2005 to become the new division head and has also received the Sellers Chair for Cystic Fibrosis. Dr. Ratjen brings expertise in the clinical care of respiratory diseases and in clinical research with a special focus on cystic fibrosis research. In August 2005, Dr. Hartmut Grasemann, a respirologist with an interest in asthma genetics and nitric oxide metabolism, will become the newest member of the team. Members of the division have become involved in an international program to develop a new classification and standardized diagnostic approach for interstitial lung diseases (Dr. Dell), in collaborative studies on the effect of air pollution on childhood asthma (Dr. Dell), as well as in multi-center studies to elucidate the factors important for the development of asthma in early childhood (Dr. Subbarao).

The major research foci include clinical studies in patients with asthma and cystic fibrosis, basic science studies on molecular biology of electrolyte transport in the lung epithelium, as well as on novel genes in lung development, studies in aerosol therapy, and exercise physiology, as well as the NIH Childhood Asthma Management Program Continuation Study. For a more complete description of our research interests, please visit our Web site at www.sickkids.ca/respiratorymedicine/.
PUBLICATIONS


BOOK CHAPTERS


FUNDING


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 paediatric (75 mg) cystic fibrosis patients. Solomon M, Boehringer-Ingelheim ($116,982 2003-2004).


Glucocorticoid receptor and glucocorticoid-responsive genes in developing lung. Sweezey N. Canadian Institutes of Health Research ($112,700 per year 2004-2009).


Project #2.9 - Planning a Canadian longitudinal birth cohort study of asthma and allergy in childhood. Sears M, Subbarao P, Cyr M, Becker A, O’Byrne P. AllerGen NCE Inc. ($120,000 2004-2006).


Purchase a new generation pharmaceutical impactor for the research project entitled,'Use of the New Generation Pharmaceutical Impactor (NGI) for Particle Sizing Biologically Active Agents’. Coates AL. University of Toronto, Ontario Thoracic Society Block Term Grants ($10,000 2004-2005).

T4883 pulmonary edema fluid induces ENaC independent Na+ and fluid absorption. O’Brodovich H. Heart and Stroke Foundation of Ontario ($90,600 per year 2002-2005).


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<tr>
<th>Division Head</th>
<th>Major Part-Time</th>
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<th>Clinical Research Fellow</th>
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<tr>
<td>Dr. Rayfel Schneider</td>
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<td>Dr. Khalid Al-Husayn</td>
<td>Dr. Jonathan Akikusa</td>
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<td>Full-Time</td>
<td>Part-Time</td>
<td>Dr. Tadej Avcin</td>
<td>Research Fellow</td>
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<td>Dr. Brian Feldman</td>
<td>Dr. Bonnie Cameron</td>
<td>Dr. Serdar Cantaz</td>
<td>Dr. Grace Gong</td>
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<td>Dr. Ronald Laxer</td>
<td>Cross-Appointees</td>
<td>Dr. Sandrine Compeyrot</td>
<td>Administrative Staff</td>
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<td>Dr. Earl Silverman</td>
<td>Dr. Vivian Bykerk</td>
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<td>Dr. Shirley Tse</td>
<td>Dr. Hans-Michael Dosch</td>
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<td>Dr. Rae Yeung</td>
<td>Dr. Paul Fortin</td>
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<td>Shona Magee</td>
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Belief
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 benefited from treatment with biologic agents on the Medical Day Care Unit.

RHEUMATOLOGY

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, systemic lupus erythematosus (SLE), neonatal lupus, scleroderma, dermatomyositis and vasculitis. Our centre was the lead centre for a new agent, Leflunomide, for the treatment of JRA and the results of the study were published in the New England Journal of Medicine. Basic research focuses on the immunopathogenesis of Kawasaki disease using an animal model.

HONOURS AND AWARDS

Feldman B. Winner of the prestigious American College of Rheumatology, Henry Kunkel Young Investigator Award. This award of distinction recognizes a young physician scientist who has made important scientific contributions to the field of rheumatology and was presented at the ACR 68th Annual Scientific Meeting held in San Antonio, Texas in October 2004. Dr. Feldman is the first paediatric rheumatologist to win this award.

Laxer RM. Chair of the Clinical Component of the Annual Meeting of the ACR in 2004 and Editor of the April issue of the Pediatric Clinics of North America, on Pediatric Rheumatology.

Schneider R. Selected as this year’s recipient of The Hospital for Sick Children’s Claus Wirsig Humanitarian Award which “honours a staff member at the hospital, who in addition to exhibiting humanitarianism themselves, also communicates these values to students in a meaningful way”.

Tse S. Awarded the SickKids Foundation Complementary and Alternative Health Care and Paediatrics Research Grant for 2005

Gong G. Best poster prize at The Department of Paediatric’s Annual Research Day Competition on May 25, 2005 for her poster on “The Quality of Life Measurement”.

Singh-Grewal D. Best poster prize at The Department of Paediatric’s Annual Research Day Competition on May 25, 2005 for his poster on “Predicting the disease course of systemic juvenile idiopathic arthritis – significance of early clinical and laboratory features”.

PUBLICATIONS


BOOK CHAPTERS


FUNDING


International study: Comparison study of leflunomide versus methotrexate in JRA. Silverman ED. Aventis Pharma ($195,000 2002-2005).

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


Summer studentships in musculoskeletal research: “Building research capacity to enhance the quality of life”. Feldman B, Pfizer Canada/Institute of Musculoskeletal Health and Arthritis (IMHA)/Canadian Institutes of Health Research ($4,251 May 2005-August 2005).


The genetics of childhood-onset SLE. Jacob C, Silverman E. National Institutes of Health ($256,786 1999-2004).


Leadership

Chief of Staff
Dr. Golda Milo-Manson

Faculty
Dr. Doug Biggar
Dr. Darcy Fehlings
Dr. Elizabeth Jimenez
Dr. Tara Kennedy

Dr. Tamarah Kagan-Kushnir
Dr. Anne Kawamura
Dr. Tara Kennedy
Dr. Jeff Kobayashi
Dr. Gilbert Miller
Dr. Peter Rumney
Dr. Jonathan Tolkin
Dr. Carolyn Hunt

Developmental Subspecialty Residents
Dr. Alvin Loh
Dr. Anita Jethwa
Dr. Trenna Sutcliffe
Dr. Siobhan Gallagher
Our developmental paediatric residency program was formally accredited by the University of Toronto and is the largest training program in Canada.

BLOOR VIEW MACMILLAN CHILDREN’S CENTRE

Bloordview MacMillan Children’s Centre offers both inpatient and outpatient developmental and rehabilitation services to the children and families of greater Toronto and provides tertiary services in paediatric rehabilitation to the province of Ontario.

Bloordview MacMillan Children’s Centre became a fully affiliated academic health science centre in February 2002 – recognizing formally our academic relationship with both the University of Toronto and The Hospital for Sick Children.

The Bloordview Research Institute was created in April 2004 under the leadership of Dr. Colin Macarthur, vice-president, Research.

All of our medical staff have appointments in the Department of Paediatrics at the University of Toronto. Our developmental paediatric residency program was formally accredited by the University of Toronto and is the largest training program in Canada. It is only the second accredited program in Canada.

HIGHLIGHTS

February 2005 – The Child Development Clinic integrated with Bloordview MacMillan Children’s neurodevelopment program to form the new Child Development Program at Bloordview MacMillan Children’s Centre.

March 2005 – Division of Developmental Paediatrics was established and Dr. Daune MacGregor was named as interim division head while a search for the first division head continues.

INVITED TALKS/RESEARCH PRESENTATIONS

Physicians participated in over 35 invited national and international talks/presentations.

SELECTED PUBLICATIONS


SELECTED BOOK CHAPTERS


SELECTED FUNDING


Training that provides first-class clinical skills and a desire to continue to learn and contribute to the field of paediatrics.
PGY 4S
CHIEF RESIDENTS
Dr. Chantelle Barnard
Dr. Ronik Kanani

ASSOCIATE CHIEF RESIDENTS
Dr. Hosanna Au
Dr. Sarah Barker
Dr. Tara Gelman
Dr. Joanna Holland
Dr. Angela Orsino

PGY 3S
Dr. Ibraheem Abosoudah
Dr. Fatma Al-J asmi
Dr. Abdulla Al-J unaibi
Dr. Reshma Amin
Dr. Rakesh Bhattcharjee
Dr. Zia Bismillah
Dr. Vicky Breakey
Dr. Daniel Flanders
Dr. Megan Harrison
Dr. Elana Lavine
Dr. Rabah Mahmoud
Dr. Melissa Parker
Dr. Adam Rapoport
Dr. Dhena Radhakrishnan
(nee Tennankore)
Dr. Tony Truong

PGY 2S
Dr. Dana Al-Nabhani
Dr. Khalfan Alsenaidi
Dr. Heidi Al Wassia
Dr. Nirit Bernhard
Dr. Michaela Cada
Dr. Sarah Cheang
Dr. Sloane Freeman
Dr. Elizabeth Gold
Dr. Krishanthi Gunawardena
Dr. Linda Hiraki
Dr. April Kam
Dr. Fotini Kavadas
Dr. Zina Levichek
Dr. Sanjeev Luthra
Dr. Jonathan M aguire
Dr. Shaun Morris
Dr. Sharon Naymark
Dr. Catharine Walsh

PGY 1S
Dr. Ghassan Abu Kuwaik
Dr. Naifain Al-Kalbani
Dr. Nashat Al-Sukaiti
Dr. Daniela Ardelean
Dr. Celia Atkinson
Dr. Elizabeth Berger
Dr. Karoon Danayan
Dr. Clare Hutchinson
Dr. Marissa J oseph
Dr. Vy Kim
Dr. Catherine Lam
Dr. Mathieu Lemaire
Dr. Caroline M cLaughlin
Dr. Michelle Porepa
Dr. Tania Samanta
Dr. Rayzie Shulman
Dr. J oanna Swinburne
Dr. J orina Elbers
Director
Dr. Philip M. Sherman

Clinical Director
Dr. Diane Hebert
PAMOT is one of the largest paediatric solid organ transplant programs in North America, with well over 1,000 children in receipt of a solid organ transplant at our hospital.

PAEDIATRIC ACADEMIC MULTI-ORGAN TRANSPLANT PROGRAM (PAMOT)

A nationally and internationally recognized program, PAMOT, is focused on the delivery of cutting-edge and state-of-the-art family-centred care to our patients. Excellence in clinical care is enhanced by an active multi-specialty educational program, a fellowship training program for emerging transplant physicians, and advancing knowledge in the field of transplantation by promoting and encouraging fundamental, translational and patient-based research activities.

PAMOT is one of the largest paediatric solid organ transplant programs in North America, with well over 1,000 children in receipt of a solid organ transplant at our hospital. This year has continued as a busy clinical year for all the organ transplant groups. In the past year, 46 children received a solid organ transplant including: 19 kidneys, 16 livers, 1 small bowel, 9 hearts and 2 lungs. As the deceased organ donation rate continues to be low in Ontario, the waiting time on the deceased donor list increases every year; living donor kidney and living donor liver transplantation continue to provide an active and viable option for children with end-stage kidney and liver disease cared for at our hospital. This year, we celebrated the 15th year of heart transplantation at our hospital with a well-attended multi-disciplinary event.

The training of a cadre of fellows who have been successful in obtaining academic appointments globally is another achievement of the PAM OT program. Our international trainees assuming faculty positions in their country of origin also serve as international ambassadors for The Hospital for Sick Children, the University of Toronto and Canada. A former PAM OT fellow, Dr. Yaron Avitzur, returned to an academic paediatric transplant position in Tel-Aviv, Israel earlier this year. Current trainees continue to reflect the international nature of the clinical fellowship program and the multi-disciplinary nature of transplantation: Alexander Liaschko (Paediatrics), Lillian Teixeira (Brazil, Cardiology) and Clodagh Sweeney (Ireland, Nephrology).

Current basic and clinic research activities are focused on optimizing outcomes in children after solid organ transplantation, including but not limited to: the study of tolerance in infant ABO incompatible heart transplantation (Dr. Lori West); leukocyte trafficking in allograft rejection (Dr. Lisa Robinson); prevention of Epstein Barr virus induced post-transplantation lymphoproliferative disease (Dr. Upton Allen); adolescent issues and transition to adult care (Dr. Miriam Kaufman); quality of life study in liver transplantation (Dr. Vicky Ng); and long-term complications following heart transplantation (Dr. Anne Dipchand). We have continued our active participation in international paediatric transplantation clinical research groups including: the North American Pediatric Renal Transplant Cooperative Study, Studies of Pediatric Liver Transplantation, and the Pediatric Heart Transplant Study Group. Members of PAMOT have continued to be advocates for paediatric solid organ transplantation at the provincial, national and international levels. Members of PAM OT have presented at multiple national and international transplantation meetings throughout the year.
Medical Director
Dr. Hilary Whyte

Clinical Leader
Shari Balcom

Research Director
Dr. Kyong-Soon Lee
Our vision is to optimize patient outcomes through the provision of excellence in transport medicine

ACUTE CARE TRANSPORT SERVICES (ACTS)

The vision of Acute Care Transport Services (ACTS) at The Hospital for Sick Children 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's Children's Health Network.

ACTS 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 SickKids NICU. In the 2004-2005 fiscal year, the ACTS Team performed 1010 transports from referring hospitals (157 of which were paediatric transports) and an additional 280 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 Division 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 19 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 and outcomes; quality of worklife and organizational learning; system integration and community responsiveness; and consumer relations and 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 1167 neonatal and paediatric transports. ACTS Team members can provide appropriate and timely care in the field through utilization of over 20 medical directives and with access to immediate online 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 ACTS, CHN partners, and the members from provincial Emergency Health Services.

Our achievements this year include:

- Provision of transport for paediatric patients requiring intensive care and support of evolving provincial initiatives in transport.
- Continuous evaluation and update of morbidity review frameworks.
- Implementation of a transport database for monitoring of our service performance against program targets.

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 need through the combined skill of physicians, nurses and respiratory therapists with expertise in transport medicine. Our enhanced competency-based education program included 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. An EMS and Transport rotation for Paediatric Emergency Medicine fellows is also available.

ACTS RESEARCH INITIATIVES

Clinical studies in transport are being conducted in several realms, including participation in international multi-centred trials and quality assurance projects. Participation is by transport fellows and ACTS team members in collaboration with multi-disciplinary team members and other departments. A major goal is to focus on developing evidence for best practice in transport medicine and in the area of patient safety.

SYSTEM INTEGRATION & COMMUNITY RESOURCES

Our goal 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 Web site at www.sickkids.ca/acts.
Following our work with our 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 and paediatric patients. Represented by Dr. Hilary Whyte on various 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 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 EM S 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.

CONSUMER RELATIONS AND FAMILY SATISFACTION
ACTS strives for positive interactive relationships with families and stakeholders and endeavors to maintain a strong customer 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. The forms serve as a two-way venue that optimizes learning from both the sending and receiving hospital perspectives. ACTS is currently focusing on the area of improving communication with our community partners.

Clinical studies in transport are being conducted in several realms, including participation in international multi-centred trials and quality assurance projects.

HONOURS AND AWARDS
Laique FR, Whyte HE, McNamara PJ. 1st place Best Poster Award – Iondilator therapy in severe Persistent Pulmonary Hypertension of the Newborn (PPHN): Does intravenous Milrinone improve oxygenation? 4th University of Toronto Neonatal/Perinatal Fellows Research Day, 2005.


SELECT PUBLICATIONS AND PRESENTATIONS


Whyte HE, Aziz A, McNamara PJ, Daneman A, Blaser S. Infants with Persistent Pulmonary Hypertension of the Newborn are at high risk of brain injury. ESPR, Dublin, Ireland 2005.

Focusing on excellence in paediatric clinical care and recent scientific advances, with an emphasis on the link between bench and bedside

PAEDIATRIC GRAND ROUNDS

The Department of Paediatrics completed another exciting and successful Grand Rounds program for the 2004-2005 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. The major goal of Grand Rounds is to allow the faculty, fellows, residents and students to experience state-of-the-art analyses and research on important topics in paediatric health and disease. 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 as well as recent scientific advances with an emphasis on the link between the bench and bedside.

The overall Grand Rounds program is organized by a committee that consists of Drs. Meredith Irwin, Jamie Hutchison, Saul Greenberg, Johanna Rommens, Rayfel Schneider, Phil Sherman, Ron Laxer, Neil Sweezey, and Mel Freedman, and our two paediatric chief residents, Drs. Chantal Barnard and Ronik Kanani.

Some of the highlights of the 2004-2005 schedule included Dr. Peter Sztamari, professor and vice-chair of Research at McMaster University who was invited to be the 2004 Robert H. Haslam Lecturer. He gave an outstanding presentation on the classification of autism as well as recent advances in the field. Dr. Susan Cohn, professor of Paediatrics at Northwestern University and Children’s Memorial Hospital in Chicago, gave an excellent presentation on neuroblastoma. She reviewed the results of recent clinical trials performed by the Children’s Oncology Group, for which she is the chair of the Neuroblastoma Committee. In addition, she presented some of her exciting findings identifying new targets for neuroblastoma therapies that work by inhibiting tumour angiogenesis. Dr. Mel Freedman, Professor Emeritus at our hospital, was invited to give the 2004 Bernard Laski Lectureship. He presented findings from his illustrious research career which included ground-breaking findings in the field of inherited bone marrow failure. As the 2004 Barry Smith Lecturer, Professor Terrie Inder of the Royal Children’s Hospital in Melbourne presented her important studies using a novel imaging technique, cerebral volumetric MRI, in the assessment of neonates. Dr. Maria New, former chief of Paediatrics at Cornell University and an international expert on adrenal steroid disorders, gave an inspiring talk in which she demonstrated how her basic discoveries in the laboratory have led to important diagnostic tests and medical treatments for congenital adrenal hyperplasia. Other highlights included lectures from Dr. William Dietz, director of the Division of Nutrition and Physical Activity at the Center for Disease Control in Atlanta, Dr. Betsy Lozoff, director of the Center for Human Growth and Development at the University of Michigan, and Dr. Karin Nelson, former chair of the Neuroepidemiology Branch at NIH. As always, our own faculty gave outstanding presentations, including Drs. Nicola Jones (Gastroenterology), Elise Héon (Ophthalmology), Shinya Ito (Pharmacology and Toxicology), Blake Papsin (Otolaryngology), James Wright (Department of Surgery), Victor Blanchette (Haematology/Oncology), Denis Daneman (Endocrinology) and Brian Kavanagh (Critical Care). Our basic science research colleagues also gave brilliant and inspiring presentations. Dr. Manual Buchwald, who retired as chair of the Research Institute in 2005, reflected on his long and productive career deciphering the etiology of Fanconi’s Anemia, and Dr. Freda Miller, senior scientist in Developmental Biology, presented her ground-breaking findings identifying neural stem cells in the skin, a discovery that may lead to therapies for multiple neurodegenerative disorders.

In addition to these presentations, our faculty members, Drs. Weitzman, Schneider, Ngan, and Wilson, presented an extraordinary clinical pathological conference and our associate residents presented fascinating clinical cases from the paediatric service. This represents only a small fraction of the excellent rounds from our 2004-2005 program.

We are pleased to report that the Paediatric Grand Rounds Calendar is posted on the SickKids homepage. The site displays monthly Grand Rounds’ dates, speakers, topics and hosts.

Grand Rounds will continue to be held every Wednesday from 9 a.m. to 10 a.m. 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; Sylvia Muir, Division of Haematology/Oncology; Burnett Wint, Division of Adolescent Medicine; Sharon MacMillan, 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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<td>September 8</td>
<td>Dr. Peter Szatmari&lt;br&gt;Professor and Vice-Chair,&lt;br&gt;Research Head, Division of Child Psychiatry&lt;br&gt;Clinical Epidemiology and Biostatistics&lt;br McMaster University, Hamilton, ON</td>
<td>The Classification of Autism&lt;br&gt;Robert H. Haslam Lecture</td>
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<td>September 15</td>
<td>Dr. Lucy G. Moses&lt;br&gt;Professor of Neurology&lt;br&gt;College of Physicians and Surgeons&lt;br&gt;Columbia University Medical Center&lt;br&gt;New York, NY</td>
<td>Leigh Syndrome&lt;br&gt;Jacob’s Ladder</td>
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<td>September 22</td>
<td>Dr. Nicola Jones&lt;br&gt;Assistant Professor of Paediatrics&lt;br&gt;Division of Gastroenterology&lt;br&gt;SickKids</td>
<td>Helicobacter Pylori – Living with an Unwelcome Guest</td>
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<td>September 29</td>
<td>Dr. Hosanna Au&lt;br&gt;Dr. Tara Gelman&lt;br&gt;Dr. Chantelle Bernard&lt;br&gt;Associate Residents&lt;br&gt;Department of Paediatrics&lt;br&gt;SickKids</td>
<td>Cases from the Paediatric Service</td>
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<td>October 6</td>
<td>Dr. Susan Cohn&lt;br&gt;Division of Hematology/Oncology&lt;br&gt;Children’s Memorial Medical Center at Chicago</td>
<td>Treatment Strategies for Neuroblastoma</td>
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<td>October 13</td>
<td>Dr. Sten H. Vermund&lt;br&gt;Professor, Department of Epidemiology and International Health&lt;br&gt;Director, John J Sparkman Center for International Public Health Education&lt;br&gt;School of Public Health&lt;br&gt;University of Alabama, Birmingham</td>
<td>Challenges in HIV Therapy for Resource - Limited Settings</td>
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<td>October 20</td>
<td>Dr. Walter Orenstein&lt;br&gt;National Immunization Program&lt;br&gt;Center for Disease Control and Prevention&lt;br&gt;Atlanta, GA</td>
<td>Vaccines – Preventable Diseases in Children: Then, Now and Beyond this Horizon</td>
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<td>October 27</td>
<td>Dr. Melvin Freedman&lt;br&gt;Professor Emeritus&lt;br&gt;Department of Paediatrics&lt;br&gt;Senior Scientist, Emeritus&lt;br&gt;Chair, Research Ethics Board&lt;br&gt;SickKids</td>
<td>Inherited Bone Marrow Failure Disorders: Pathway to Discovery&lt;br&gt;2004 Bernard Laski Lectureship</td>
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<td>November 3</td>
<td>Dr. Joanne Wolfe&lt;br&gt;Department of Pediatric Oncology&lt;br&gt;Dana-Farber Cancer Institute (DFCI) and Children's Hospital Boston (CHB)&lt;br&gt;Assistant Professor of Pediatrics&lt;br&gt;at Harvard Medical School&lt;br&gt;Medical Director of the Pediatric Advanced Care Team</td>
<td>Caring for Children with Life-Threatening Illness: Can We Do Better?</td>
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<td>November 10</td>
<td>Dr. Terrie Inder&lt;br&gt;Neonatal Neurology&lt;br&gt;Royal Children's Hospital&lt;br&gt;Melbourne, Australia</td>
<td>Cerebral Volumetric MRI Assessment in the Neonate&lt;br&gt;Barry Smith Lectureship</td>
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<td>November 17</td>
<td>Dr. Karin B. Nelson&lt;br&gt;Neuroepidemiology Branch&lt;br&gt;NINDS</td>
<td>Strokes in Babies (Coals to Newcastle!)&lt;br&gt;1st Hawke Family Lectureship</td>
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<td>November 24</td>
<td>Associates Grand Rounds</td>
<td>Cases from the Paediatric Service</td>
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<td>December 1</td>
<td>Dr. Jeff Botkin&lt;br&gt;Professor of Pediatrics and Medical Ethics&lt;br&gt;Associate Vice-President for Research Integrity&lt;br&gt;Department of Pediatrics&lt;br&gt;University of Utah</td>
<td>Bioethics Week</td>
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<td>December 8</td>
<td>Dr. Denis Daneman&lt;br&gt;Head, Division of Endocrinology&lt;br&gt;SickKids</td>
<td>Epidemiology of Diabetic Ketoacidosis and its Complications</td>
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<td>December 15</td>
<td>Residents</td>
<td>Resident Holiday Presentation</td>
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<td>January 5</td>
<td>Dr. Richard Goldbloom&lt;br&gt;IWK Health Centre&lt;br&gt;Halifax, NS</td>
<td>Is There a Future for the General Paediatrician Faced with the Unravelling of the Human Genome?&lt;br&gt;1st Annual PSI – Harry Bain Lectureship</td>
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<td>January 12</td>
<td>Dr. Elise Heon&lt;br&gt;Ophthalmologist-in-Chief&lt;br&gt;SickKids</td>
<td>Where are we at in eye genetics?</td>
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<td>January 19</td>
<td>Dr. William Zempsky&lt;br&gt;Associate Director, Pain Relief Program&lt;br&gt;Connecticut Children’s Medical Center</td>
<td>Developing the Ouchless Emergency Department: Can We Do It? And How!</td>
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<td>January 26</td>
<td>Dr. Ross Petty&lt;br&gt;Professor of Paediatrics&lt;br&gt;British Columbia’s Children’s Hospital</td>
<td>Juvenile Idiopathic Arthritis: Long-term Outcome</td>
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<td>February 2</td>
<td>Dr. William Dietz&lt;br&gt;Director, Division of Nutrition and Physical Activity Centers for Disease Control&lt;br&gt;National Centre for Chronic Disease Prevention&lt;br&gt;Atlanta, GA</td>
<td>Obesity in Children and Adolescents</td>
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<td>February 9</td>
<td>Dr. Al Lane&lt;br&gt;Chairman of Dermatology&lt;br&gt;Professor of Dermatology and Pediatrics&lt;br&gt;Stanford University Medical Center</td>
<td>What’s New in Pediatric Dermatology</td>
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<td>February 16</td>
<td>Dr. Shinya Ito&lt;br&gt;Head&lt;br&gt;Division of Clinical Pharmacology and Toxicology&lt;br&gt;SickKids</td>
<td>Drugs and Toxic Chemicals in Human Milk</td>
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<td>February 23</td>
<td>Dr. David Stern&lt;br&gt;Associate Professor of Medicine&lt;br&gt;Director, Academic International Initiatives&lt;br&gt;Faculty Director, Standardized Patients&lt;br&gt;University of Michigan Medical School</td>
<td>Professionalism in Physicians&lt;br&gt;Medical Education Day</td>
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<td>March 2</td>
<td>Dr. Betsy Lozoff&lt;br&gt;Director and Senior Research Scientist&lt;br&gt;Center for Human Growth &amp; Development&lt;br&gt;Professor, Department of Pediatrics and Communicable Diseases, Medical School&lt;br&gt;University of Michigan Health System</td>
<td>Nutrition, Brain and Development: Iron Deficiency as a Model</td>
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<td>March 9</td>
<td>Dr. Blake Papsin ENT SickKids</td>
<td>Cochlear Implants in Children</td>
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<td>March 16</td>
<td>Dr. James Wright Chief, Department of Surgery SickKids</td>
<td>Changing Orthopaedics from Practice-based Evidence to Evidence-based Practice</td>
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<td>March 30</td>
<td>Dr. Victor Blanchette Head, Division of Haematology SickKids</td>
<td>The Biology and Treatment of Childhood Immune Thrombocytic Purpura (ITP): What's Next?</td>
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<td>April 6</td>
<td>CPC</td>
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<td>April 13</td>
<td>Dr. Brian Kavanagh ICU SickKids</td>
<td>Errors Associated with Simple Physiology in Complex Cases</td>
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<td>April 20</td>
<td>Dr. Oded Langer Professor and Chairman of Obstetrics and Gynaecology Albert Einstein College of Medicine Bronx, NY</td>
<td>The Diabetic Dilemma: Leading Change with Proven Solutions Boivin Professorship Lecture (Part of the Motherisk Conference)</td>
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<td>April 27</td>
<td>Dr. Felix A. Ratjen Head, Division of Respiratory Medicine SickKids</td>
<td>Strategies to Treat Early P. aeruginosa Infection in Patients with Cystic Fibrosis</td>
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<td>May 4</td>
<td>Dr. Freda Miller Senior Scientist Developmental Biology SickKids</td>
<td>Skin-derived Precursors (SKPs): From Basic Biology to Therapeutic Utility</td>
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<td>May 11</td>
<td>Dr. Ching-Hon Pui Member, St. Jude Faculty Vice-Chair, Hematology-Oncology Director, Leukemia/Lymphoma Division Program Director, Hematological Malignancies Fahad Nassar Al-Rashid Chair of Leukemia Research American Cancer Society FM Kirby Clinical Research Professor</td>
<td>Recent Advances in Childhood ALL David Burton Lectureship</td>
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<td>May 18</td>
<td>Dr. Maria I. New Professor of Pediatrics Director, Adrenal Steroid Disorders Program Department of Pediatrics Mount Sinai School of Medicine</td>
<td>Congenital Adrenal Hyperplasia</td>
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<td>May 25</td>
<td>Residents</td>
<td>Resident Research Day</td>
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<td>June 1</td>
<td>Dr. Manuel Buchwald Chief, Research Institute SickKids</td>
<td>Deciphering Fanconi Anemia</td>
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<td>June 8</td>
<td>Dr. Sheila Kumari Singh Winner of the 17th Annual Andrew Sass-Kortsak Lectureship</td>
<td>Sass-Kortsak Lecture</td>
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<td>June 15</td>
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<td>Pediatric Awards Day</td>
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TEACHING/EDUCATION AWARDS
R.H.A. Haslam Preclerkship Teaching Award to the faculty member who has demonstrated excellence in preclerkshop teaching
    Dr. Carolyn Calpin
The Lionel Weinstein Clerkship Teaching Award to the faculty member who has demonstrated excellence in clerkship teaching.
    Dr. Eddy Lau
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. Sanjay Mahant
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. Michael Peer
Subspecialty Teaching Award to the faculty member who has demonstrated commitment to excellence in teaching the subspecialty residents and clinical fellows.
    Dr. Fraser Goldman
Continuing Medical Education Award to the faculty member who has demonstrated long-term contribution to continuing education.
    Dr. Marcellina Mian
PERLS (Paediatric Resident Lecture Series) Award to the faculty member who has demonstrated commitment to excellence in teaching at the Paediatric academic sessions.
    Drs. Michael Capra and Sari Kives

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. Anna Jarvis
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 Sciences Centre, who has demonstrated excellence in the delivery of clinical care.
    Dr. Michael Weinstein

RESEARCH AWARDS
Physician Researcher Award for Scientific Accomplishment to recognize the accomplishments of a physician who has generated a body of research that is exerting a major impact in a field of study. The awardee will be more than six and less than 15 years beyond the date of appointment as a faculty member at an Academic Health Sciences Centre. This award was first awarded in 2005.
    Dr. Brian McCrindle
Physician Research Award for Career Excellence to recognize sustained excellence by a physician who has generated a body of work with relevance beyond a specific field of study. The awardee will be 15 or more years beyond the initial date of appointment as a faculty member at an Academic Health Sciences Centre. This award was first awarded in 2005.
    Dr. Gideon Koren
TEACHING/EDUCATION AWARDS
Ondaatje Award to a senior resident for excellence in clinical teaching as nominated by core paediatric residents.
  Dr. Megan Harrison
  Dr. Ronik Kanani

CLINICAL AWARDS
The Saunders Prize to a senior resident who has demonstrated excellence in clinical paediatrics.
  Dr. Adam Rapaport

RESEARCH AWARDS
Paediatric Research Awards for excellence in resident research.

Core Paediatrics
1st place – Dr. Dhena Radhakrishnan
Determining the prevalence of non-tuberculous mycobacteria in pediatric patients with cystic fibrosis. DK Radhakrishnan, S Dell, Y Yau, M Corey, M Su

1st place poster – Dr. Rayzie Shulman

Subspecialty Paediatrics
1st place – Dr. Michael Schmidt
Remote ischemic preconditioning - A novel paradigm for myocardial protection during evolving infarction. MR Schmidt, IE Konstantinov, M Shimizu, J Li, M Cheung, V Dzavik, R Kharbanda, AN Redington

Poster Prizes
Dr. Grace Gong
Dr. Loretta Lau
Dr. Davinder Singh-Grewal
Dr. Thomas Walters

ANNUAL RESIDENT AND FELLOW RESEARCH DAY
May 25, 2005

Oral Presentations
Vicky Breakey, Core Paediatrics
Residents’ attitudes and practices regarding the use of analgesia and sedation for lumbar puncture in children. V Breakey, J Pirie, R Goldman

Karoon Danayan, Core Paediatrics
Do paediatricians and family physicians manage pharyngitis differently? KC Danayan, R Mahtani, C Chiu, H Garfield, M Feldman

Sloane Freeman, Core Paediatrics
Turner Syndrome and growth hormone. S Freeman, J Hamilton, D Stephens, D Daneman

Dhena Radhakrishnan, Core Paediatrics
Determining the prevalence of non-tuberculous mycobacteria in pediatric patients with cystic fibrosis. DK Radhakrishnan, S Dell, Y Yau, M Corey, M Su

Michael Schmidt, Cardiology
Remote ischemic preconditioning – A novel paradigm for myocardial protection during evolving infarction. MR Schmidt, IE Konstantinov, M Shimizu, J Li, M Cheung, V Dzavik, R Kharbanda, AN Redington

Helen Bui, Endocrinology
Is DKA at diagnosis in Ontario children a reflection of missed diagnostic opportunities? H Bui, R Stein, K Fung, T To, D Daneman

Adam Cheng, Emergency Medicine
Improving the palatability of activated charcoal in pediatric patients. A Cheng, S Ratnapalan

Mubeen Rafay, Neurology
Predictive value of seizure and EEG features of neonatal stroke hypoxic ischemic encephalopathy. M Rafay, C Tan-Dy, A Al-Futaisi, W Yoon, A Moore, M Cortez, G deVeber
Poster Presentations

Ali Al-Ahmari, Haematology/Oncology

Abdullah Al-Anazi, Paediatric Emergency Medicine
Fingertip injuries in children, The Hospital for Sick Children, Emergency Department Experience. A Al-Anazi, B Yegneswaran, A M ikrogianakis

Khalid Al-Ansari, Paediatric Emergency Medicine
Sedation and analgesia practices for incarcerated inguinal hernias in children. K Al-Ansari, C Sulowski, S Ratnapalan

Reshma Amin, PGY3, Core Paediatrics
Influenza and acute childhood encephalitis. R. Amin, A Bitnun, S Richardson, DL MacGregor, R Tellier, H Heurter, L Ford-Jones

Daniela Ardelean, PGY1, Core Paediatrics
Incontinentia Pigmenti in males: Case series and review of the literature. D Ardelean, M Weinstein, E Pope

Rand Askalan, Neurology
Inhibitors of apoptosis proteins expression in neonatal rat brain following a stroke. R Askalan, U Tuor, R Shaye, C Hawkins, J Hutchison

Hosanna Au, PGY4, Core Paediatrics
Fractalkine in renal tubular epithelial cells. A University of Toronto paediatric residents’ child advocacy initiative. H Au, C Birken, A Orsino, C Beck, C Harrison, A Ahmet, M Gans, S Tallett

Tadej Avcin, Rheumatology
Nasal septal perforation: A novel clinical manifestation of systemic juvenile idiopathic arthritis/adult-onset Still's Disease. T Avcin, SM L Tse, R Schneider, ED Silverman

Tadej Avcin, Rheumatology
M acrophage activation syndrome as the presenting manifestation of rheumatic diseases in childhood. T Avcin, SM Tse, R Schneider, ED Silverman

M arina Avner, Clinical Pharmacology
Pregnancy exposure to isotretinoin: Why women continue to fail pregnancy prevention programs in Canada. M Avner, G Koren

J illian Baker, Haematology/Oncology
Stage III cystic partially-differentiated nephroblastoma recurring after nephrectomy and chemotherapy. J M Baker, S Viero, PC Kim, RM Grant

Ute Bartels, Haematology/Oncology
Surveillance spinal M RI in the follow up of children treated for medulloblastoma. U Bartels, M Shroff, L Sung, U Dag-Ellams, N Laperriere, J Rutka, E Bouffet

Tawfeg Ben-Omran, Clinical Genetics
Clinical manifestations associated with familial partial trisomy 11. T Ben-Omran, E Kolomietz, IE Teshima, M M ah, D Chitayat

Rada Boskovic, Clinical Pharmacology
The reproducive effects of beta interferon therapy for multiple sclerosis. R Boskovic, R Wade, J Wolpin, G Koren

Gabriele Bronzetti, Cardiology
Implantable cardioverter-defibrillator in young patients with ARVC/D: Are there differences in R wave sensing amplitude compared with patients with other diseases? G Bronzetti, RM Hamilton, E Stephenson, J Kirsh, G Gross, C Chiu

Jason Brophy, Infectious Diseases
Use of computerized tomography in diagnosing paediatric pulmonary tuberculosis. J Brophy, K Thomas, S Haidar, P Babyn, P Mallow, I Kitai

M ichaela Cada, PGY2, Core Paediatrics
Approach to diagnosis and treatment of pediatric tumors of the diaphragm. M Cada, M Capra, T Gerstle, J Traubici, B Ngan

David Callen, Neurology
Establishing MRI criteria for multiple sclerosis in children. D Callen, M Shroff, D Li, D Stephens, B Banwell

Serdar Cantez, Rheumatology
Kawasaki disease in two children with acute leukemia. S Cantez, RSM Yeung

M aryanne Crockett, Infectious Disease
Plasmodium falciparum alters the growth of mycobacterium marinum in vitro. M Crockett, T Tan, J Liu, K Kain

M athew Crystal, Cardiology
Relationship between echocardiographic and electrocardiographic ventricular indices with acute Kawasaki disease. M A Crystal, SK Syan, RSM Yeung, BW M Crindle

Anne Durkan, Nephrology
Fractalkine in renal tubular epithelial cells. A Durkan, T Alexander, GY Liu, L Robinson

J orina Elbers, Neurology

Xiaohu Fan, Cardiology
Induction of human histo-blood group A antigen expression in mouse cells by gene therapy using lentiviral vectors harbouring human AGH-related glycosyltransferase genes. X Fan, A Ang, H Lang, K Tao, LJ West
The many outstanding research endeavours of our trainees

Grace W K Gong, Rheumatology
The impact of Kawasaki disease on parents: A naturalistic inquiry.
GW K Gong, KM Boydell, BW M cCrindle, RSM Yeung

Somech Grunebaum, Immunology/Allergy
Short-lived antibody response as a manifestation of primary immunodeficiency. SR Grunebaum, A Atkinson, CM Roifman

Refoel Guggenheim, Immunology/Allergy
Hematopoietic stem cell transplantation for cartilage hair hypoplasia. R Guggenheim, E Grunebaum, A Atkinson, CM Roifman

Abha Gupta, Haematology/Oncology
Low incidence of ototoxicity with continuous infusion of Cisplatin in the treatment of pediatric germ cell tumors. A Gupta, M Capra, V Papaioannou, G Hall, R Maze, D Dix, S Weitzman

Abha Gupta, Haematology/Oncology
Needle versus open biopsy in the diagnosis of pediatric neuroblastoma. A Gupta, A Kumar, S Walters, P Chait, M Irwin, T Gerstle

Sudqi Hamadah, Neonatology

Lucie Lafay-Cousin, Haematology/Oncology
Carboplatin hypersensitivity reaction in paediatric low grade glioma (LLG) patients. L Lafay-Cousin, G Nicolin, U Bartels, A Huang, E Bouffet

Loretta Lau, Haematology/Oncology
Cyclooxygenase inhibition induces apoptosis, p53 nuclear localization and enhances chemosensitivity in NB. L Lau, LS Cheng, S Baruchel, MS Irwin

Abhay Lodha, Neonatology
Prophylactic antibiotics in prevention of central venous catheter associated thrombosis (CVC-clot) in severe hemophiliacs (SH). P Komvilaisak, V Price, V Blanchette, G Flores, AM Stain, D Stephens, M Carcao

Grace W K Gong, Rheumatology
Arthritis presenting during the acute phase of Kawasaki disease. GW K Gong, J C Ching, BW M cCrindle, RSM Yeung

Graham J ay, Paediatric Emergency Medicine
Paediatric eye trauma presenting to the Emergency Department. G J ay, S Ratnapalan

April Kam, PGY2, Core Paediatrics
Evaluation and management of neonatal withdrawal symptoms in Canada. AJ Kam, B Stade, DM Campbell

April Kam, PGY2, Core Paediatrics

Faisal Khanani, Haematology/Oncology
Herpes virus type 7 infection in pediatric stem cell transplantation. F Khanani, A Al-Ahmari, U Allen, JJ Doyle, S Richardson, A Gassas

Linda Kim, Medical Genetics
Cleft lip and palate and syndactyly in a father and son: A new syndromic association? LE Kim, R Klatt, AS Teebi

Patcharee Komvilaisak, Haematology/Oncology
The prevalence of significant bleeding disorders in children referred to a bleedingdisorder's clinic. P Komvilaisak, V Price, C Wakefield, V Blanchette

Patcharee Komvilaisak, Haematology/Oncology
Time in-situ as a risk factor for central venous catheter associated thrombosis (CVC-clot) in severe hemophiliacs (SH). P Komvilaisak, V Price, V Blanchette, G Flores, AM Stain, D Stephens, M Carcao

Grace W K Gong, Rheumatology
The Quality of My Life (QoM L) questionnaire: The minimal clinically important difference (MCID) for pediatric rheumatology patients. GW K Gong, NL Young, H Dempster, M Porepa, BM Feldman

Grace W K Gong, Rheumatology
Arthritis presenting during the acute phase of Kawasaki disease. GW K Gong, J C Ching, BW M cCrindle, RSM Yeung

The many outstanding research endeavours of our trainees

Grace W K Gong, Rheumatology
The impact of Kawasaki disease on parents: A naturalistic inquiry.
GW K Gong, KM Boydell, BW M cCrindle, RSM Yeung

Somech Grunebaum, Immunology/Allergy
Short-lived antibody response as a manifestation of primary immunodeficiency. SR Grunebaum, A Atkinson, CM Roifman

Refoel Guggenheim, Immunology/Allergy
Hematopoietic stem cell transplantation for cartilage hair hypoplasia. R Guggenheim, E Grunebaum, A Atkinson, CM Roifman

Abha Gupta, Haematology/Oncology
Low incidence of ototoxicity with continuous infusion of Cisplatin in the treatment of pediatric germ cell tumors. A Gupta, M Capra, V Papaioannou, G Hall, R Maze, D Dix, S Weitzman

Abha Gupta, Haematology/Oncology
Needle versus open biopsy in the diagnosis of pediatric neuroblastoma. A Gupta, A Kumar, S Walters, P Chait, M Irwin, T Gerstle

Sudqi Hamadah, Neonatology

Lucie Lafay-Cousin, Haematology/Oncology
Carboplatin hypersensitivity reaction in paediatric low grade glioma (LLG) patients. L Lafay-Cousin, G Nicolin, U Bartels, A Huang, E Bouffet

Loretta Lau, Haematology/Oncology
Cyclooxygenase inhibition induces apoptosis, p53 nuclear localization and enhances chemosensitivity in NB. L Lau, LS Cheng, S Baruchel, MS Irwin

Abhay Lodha, Neonatology
Prophylactic antibiotics in prevention of central venous catheter associated infection in neonates: A systemic review. A Lodha, S Hamadah, AD Furlan, H Whyte, AM Moore

Gustavo M aegawa, Clinical and Metabolic Genetics
Study of natural history and genotype analysis of juvenile GM2 gangliosidosis. GHB Maegawa, M Tropak, DJ Mahuran, T Stockley, J W Callahan, R Giugliani, F Kok, J TR Clarke

Michal Maimon, Paediatric Emergency Medicine
Administration of analgesic medication by parents to children suffering from limb or clavicle area injury. M Maimon, L M Argues, RD Goldman
Steve M alone, Neurology
A comparison of two FMRI language paradigms in children with epilepsy.
S M alone

Shay Menascu, Neurology
Abnormal sleep pattern in epileptic children. S Menascu

Ismail M ohamed, Neurology
Neuromagnetic imaging of cortical neural oscillations in children during an auditory word recognition task. I M ohamed

M ahendranath M ohar, Neurology

Sang-Ook Nam, Neurology
Risk factors of postneonatal epileptic seizure in newborns with EEG-confirmed neonatal seizures. S-O Nam, A Ochi, H Otsubo, OC Snead

Masaki Nii, Cardiology
Insights into normal atrioventricular valve junction motion in paediatrics: A real-time three-dimensional echocardiographic study. M Nii, KS Roman, CK M acgowan, JF Smallhorn

M ark Norris, Adolescent Medicine
Ana and the internet: A qualitative review of pro-anorexia websites. M Norris, K Boydell, L Pinhas, DK Katzman

Jonathan Ponesse, Neurology
Clinical and Neuroimaging realities in Guillain-Barre Syndrome.

Rajesh Ramachandran Nair, Neurology
A reappraisal of rhythmic coma patters in children. R Ramachandran Nair, R Sharma, SK Weiss, H Otsubo, M A Corthman

Christina Ricks, Paediatric Emergency Medicine
Evaluating computer-assisted learning for paediatric emergency procedures. C Ricks, S J ain, G Tait, L Lingard, S Ratnapalan

M arianne Rohrbach, Clinical & Metabolic Genetics
Prenatal diagnosis of exencephaly associated with amniotic band sequence at week 17 by fetal M RI. S Blaser, J Drake, D Chitayat, L Velsher, M Rohrbach

M ontri Saengpattrachai, Neurology
Nonconvulsive status epilepticus in pediatric intensive care unit.

Tal Schechter, Haematology/Oncology and Clinical Pharmacology
Intravenous busulfan pharmacokinetics and their relation to toxicity. T Schechter, Y Finkelstein, J Doyle, Z Verjee, G Koren, LL Dupuis

Erick Sell, Neurology
The medium chain triglyceride ketogenic diet for the treatment of refractory lesional epilepsy in children in a single epilepsy center. E Sell, C Liu, E Donner, R Curtis

Sandesh Shivananda, Neonatology
Accuracy of diagnosis and management of clinically suspected congenital heart disease during neonatal transport. S Shivananda, K M uthalaly, H W hyte, P M cNamara

Rayzie Shulman, PGY1, Core Paediatrics
Everything you ever wanted to know about childhood vaccinations in Canada: Coverage rates, providers, and surveillance systems. R Shulman, D M anuel, J Devon, A Guttmann

J udith Simoneau-Roy, Endocrinology
Insulin resistance and obesity in children treated for craniopharyngioma. J Simoneau-Roy, J Hamilton

Davinder Singh-Grewal, Rheumatology
Disease course of systemic-onset juvenile idiopathic arthritis - Significance of early clinical and laboratory features. D Singh-Grewal, N Bayer, R Schneider, BM Feldman

David Skidmore, Clinical and Metabolic Genetics
A case of neonatal progeria with findings suggestive of a connective tissue disorder. DL Skidmore, W Halliday, S Viero, V Edwards, G Somers, K Liu, A Hinek, K Chong, D Chitayat

M acGregor Steele, Haematology/Oncology

Uri Tabori, Haematology/Oncology
Distinct clinical course and pattern of relapse in adolescents with medullloblastoma: A Canadian Pediatric Brain Tumor Consortium study. U Tabori, J Hukin, B Crooks, N Laperriere, AS Carett, D Strother, M Silva, D Eisenstat, B W ilson, I Odame, C M pofo, Y Samson, L Sung, E Bouffet

Lilian Teixeira, Neonatology
Early PDA ligation is associated with increased risk of postoperative cardiorespiratory instability. LS Teixeira, PS Kiran, G Van Arsdell, PJ M cNamara

Juliana Teo, Paediatric Emergency Medicine
The use of retrievable inferior vena cava filters for pulmonary embolism prophylaxis in children: HSC’s experience. J Teo, S Williams, D Castle

Rahim Valani, Paediatric Emergency Medicine
Improving the management of Sickle Cell patients: are we meeting the recommendations? R Valani, A M ikroganjakis, D ScoInk

Rahim Valani, Paediatric Emergency Medicine
Ketorolac in Sickler’s Study (KISS): Does the administration of intravenous ketorolac alter the kinetics of intravenous morphine in children with vaso-occlusive Sickle Cell crisis. R Valani, J Friedman, T Einaron, J Klein, G Koren

Diane Tew, Gastroenterology
The IBD5 (5q31) locus in early onset inflammatory bowel disease.

Tom Walters, Gastroenterology
The IBD5 (5q31) locus in early onset inflammatory bowel disease.

TD Walters, MS Silverberg, J P ewinger, P Sherman, AM Griffiths

Halbo Xu, Clinical Pharmacology and Toxicology
Effects of infant formula, cow milk and human milk on drug metabolizing enzymes. H Xu, R Rajesan, RB Kim, SA Kliewer, B Lonnerdal, PA Harper, M Ho, B Yun, J Hutson, S Itos

M ichelle Barton-Forbes, Infectious Diseases
Invasive pneumococcal disease in children with sickle cell disease: An analysis of cases admitted to The Hospital for Sick Children over a 15 year period (1990-2004). M Barton-Forbes, M Kirby, Y Yau, UD Allen
PROMOTED TO PROFESSOR
OF PAEDIATRICS
Dr. John Callahan
Dr. Wendy Roberts
Dr. Norman Rosenblum

PROMOTED TO ASSOCIATE
PROFESSOR OF PAEDIATRICS
Dr. Steven Moss
Dr. Brian Simmons
Dr. Nancy Young

RETIREES
The following retired from
The Hospital for Sick Children
in June of 2005:
Dr. Marvin Gans

25 YEARS OF SERVICE AWARDS
The following were honoured for
their 25 years of service to The Hospital
for Sick Children in June of 2005:
Dr. Jeffrey Kobayashi
Dr. Joseph Porepa
Dr. Antonina Saksznajder
Chair of Paediatrics located at
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