Dedicated to improving children’s health through advances in clinical care and research and the education of future caregivers.
Much has changed since the first children came to SickKids when it opened its doors on March 23, 1875, and certainly much will change in how healthcare is provided over the years as we gain more knowledge through our research efforts. What will not change, however, is the skill and dedication of the paediatricians in the Department of Paediatrics who provide clinical care, train our future caregivers, and develop new health strategies for our children’s children.
I have the honour of holding the positions of Chief of Paediatrics at The Hospital for Sick Children (SickKids) and Chair of Paediatrics at the University of Toronto. As of June 30th, 2006 I will have completed my second five-year term and thus, this will be my final report.

Over the past 10 years, I believe that my real job has been to be the coach for “Team Paediatrics”. Although I enjoy the “game” of academic paediatrics, and I do try to improve my game, I am not, nor could I be, the best player on “Team Paediatrics”. This is for many reasons, not the least of which is that many of my faculty members’ abilities far exceed my own. I felt that I could do more good for children by hiring and developing academic paediatricians who were brighter and more capable than I.

How do you develop an effective “Team Paediatrics”? Well first you need the right players. These are:

> the expert “scholarly clinician player”: We can’t open up the doors of our paediatric academic health science centres (pAH SC) unless we provide the best possible care.

> the expert “clinician educator player”: We have to train professionals to look after our children and our children’s children.

> the expert “clinician researcher player”: We must develop new cures through research because we should never be satisfied with our present “cutting edge State-of-the-Art” care.

What are my expectations of the players on “Team Paediatrics”? Well, I took a lesson from my weekend experiences with my children. Over the past 15 years, I have been fortunate to be able to first follow my daughter as she played All-Star Soccer and then follow my son as he played Elite baseball. They were different players playing different sports, but each was encouraged to be the best that they could be; for themselves and for the “Team”.

Obviously, no coach can do it alone. You need assistant coaches and that is why I formed the Paediatric Executive to complement the Department’s excellent Division Heads. Over the years, my Executive have made amazing contributions. The credit for any achievements should flow to: Associate Chairs (Clinical), Drs. Ron Laxer and then Daune MacGregor; Associate Chairs (Research), Drs. Phil Sherman and then Norm Rosenblum; Associate Chair (Education), Dr. Susan Tallett; my Directors of Administration, Neil Walker, Ramune Pleinys and Richard Gerber; and my collaborative vice-president partners, Mary Jo Haddad, Marilyn Booth and Seonag M acrae. Together they have made outstanding contributions in moving the Department forward. Together we developed our game strategies by a simple approach: Provide our faculty with the necessary information, not data, and watch how consistently colleagues come up with comparable strategies.
There have been challenges during this game that has lasted 10 years. However, as in other aspects of life, there are always challenges. It is not whether you do or do not have problems, it is what do you do about them! There are several different approaches, but the most important is that if life gives you a lemon, figure out how to make lemonade.

What has been the overall game plan or strategy for “Team Paediatrics”? Well, a rather simple one:

> Get the best people.
> Clearly outline expectations and the bars to jump.
> Encourage them to dig deeper, run faster and then,
> Just let them do their job.

And what a job they have done. A very brief summary, much expanded in this and previous annual reports, is that over the past year, our Division Heads and their Division members have:

> provided the vast majority of paediatric medical care at the fully affiliated teaching hospitals of the Faculty of Medicine of the University of Toronto. This includes all tertiary neonatal care at the Sunnybrook and Women’s College Health Science Centre and Mount Sinai Hospital, approximately 70% of all patient care at SickKids and more than 90% of all patient care at the Bloorview MacMillan Children’s Centre.
> provided educational activities involving our 790 medical students, 60 paediatric residents and 160 paediatric fellows from 30 different countries, collaborative training of our allied health professions and continuing educational activities for our own and broader community.
> acquired more than 20 million dollars in external research funding and published almost a thousand scholarly publications.

Your outstanding achievements mean so much for the Department, our AHSCs and the University... but most of all for the children!

HUGH O’BRODOVICH MD, FRCP(C)
Professor of Paediatrics and Physiology
Chair of Paediatrics, University of Toronto
Paediatrician-in-Chief, The Hospital for Sick Children
Senior Scientist, The Hospital for Sick Children Research Institute
R.S. McLaughlin Chair in Paediatrics at The Hospital for Sick Children
OVERVIEW 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 at The Hospital for Sick Children continues to be the provincial centre for child and adolescent eating disorders providing a variety of integrated clinical services (inpatient, day treatment, outpatient and consultation) to adolescents and their families. New initiatives include the integration of multi-family group therapy at SickKids and throughout the province. 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 an extremely successful educational initiative. Finally, the interdisciplinary members of the Eating Disorder Program published “Help for Eating Disorders: A Parent’s Guide to Symptoms, Causes and Treatments”, a comprehensive book for parents and caregivers of children and adolescents with eating disorders.

The Adolescent Substance Abuse Outreach Program and the Substance Abuse Day Treatment Program continue to provide exemplary clinical care to adolescents and their families with substance abuse problems. In-depth psychotherapy, brief counseling, group work and family support are fundamental services offered to our patients. The program has recently implemented additional health screening to further identify concurrent health issues experienced by adolescents referred to the program. The staff members work collaboratively with many other agencies and professionals from other organizations to provide comprehensive care to at-risk youth. Staff are also involved in the provision of extensive education at many levels including trainees from a variety of disciplines, staff in other areas of the hospital, health care professionals and other professionals in the community and adolescents and their caregivers (for example, outreach education to schools, parents groups). Members of our staff are involved in many aspects of service development, both at local and regional levels.

The Complex Adolescent Problem 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 renal, cardiac and lung transplant clinics, HIV clinic, SLE clinic and through inpatient consultations. This past year, a clinic for complicated contraceptive issues was developed in conjunction with Gynaecology. Transition from paediatric to adult care is an important focus for CAPP. CAPP is leading the hospital to ensure a consistent approach to transition throughout the institution, including identifying excellent transition initiatives already in place and customizing them to other areas. “Good 2 Go” is a team comprised of a Transition Services Coordinator, psychologist, paediatrician and social worker that will provide direct patient services, coordination and customization to teams and research that will help create the evidence base needed for continuing development of transition models internationally. Collaborative initiatives to enhance transition care have begun with the Division of Rheumatology and PAM OT. Public education is an important part of CAPP and is delivered through talks at schools and to parent groups, media interviews and publications.

The Young Families Program (YFP) continues to focus on providing health care, advocacy, support and education to high-risk adolescent parents and their children. The program launched the “High Risk Prevention Project”, a pilot project aimed at early identification and enhanced outcomes of the most ‘at risk’ infants and mothers. The YFP continues to collaborate extensively with other professionals and organizations working with this patient population. Recent linkages have been identified with Young Parents No Fixed Address and St. Michael’s Hospital. Program staff members continue to disseminate information and provide education to health professionals in a variety of disciplines through workshops, poster presentations, and clinical practice guidelines.

Research activities are an integral part of the activities of the faculty and trainees of the Division. Each of our clinical areas provides the substrate for our clinical research endeavours in the Division. As such, research activities include the medical complications of eating disorders with specific emphasis on osteoporosis, epidemiology of early-onset eating disorders, treatment outcome of adolescents with eating disorders, the evaluation of the use of information technology for health promotion with youth, treatment outcome in adolescent substance use, HIV educational interventions with incarcerated youth, and health values in adolescents with chronic illnesses.
The Division embarked on a new initiative this past year. We have incorporated Telehealth into our Adolescent Medicine Rounds in an effort to share knowledge and expertise on adolescent health issues with several northern communities in Ontario. Multidisciplinary professionals caring for youth from several sites have participated in either the live conference or webcasting. A wide range of adolescent medicine topics have been presented. Feedback has been excellent.

The Division organized and hosted the 11th annual conference of The Canadian Association for Adolescent Health in November 2005. The meeting was a huge success with over 175 interdisciplinary attendees from across Canada. There was a wide range of clinical and scientific presentations, including contraception, bullying, eating disorders, human papillomavirus, self-harm and adolescent psychiatric emergencies.

Members of the Division continue to make significant educational contributions locally, provincially, nationally and internationally. Members of our Division hold leadership roles in the Samuel Lunenfeld Research Summer Student Program and the ongoing coordination of the Mentorship Program for Clinician-Teachers and Clinician-Educators.

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

The fellowship program in the Division of Adolescent Medicine is one of only two nationwide. The program offers a two-year combined clinical and research fellowship in Adolescent Medicine. The Adolescent Medicine Training Program continues to attract excellent candidates from within Canada and from centres around the world. The Division is spearheading a national initiative to establish Adolescent Medicine as an accredited paediatric subspecialty at the Royal College of Physicians and Surgeons of Canada.

HONOURS AND AWARDS

Leslie K. Certificate of Merit in Medical Education, Canadian Association for Medical Education, 2005.

PUBLICATIONS


BOOKS AND BOOK CHAPTERS

FUNDING
Faculty development on case writing. Marr S, Leslie K. Deans Excellence Fund. The University of Toronto ($1,390 2005)
cardiology

OVERVIEW 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 world wide, and has won international recognition for its contribution in the field of epidemiology of acquired and congenital heart disease and surgical outcomes. Each of these areas has provided the substrate for the large clinical research output of the Division which is underpinned by our world class laboratory science program. One of the most exciting clinical developments on the horizon is the commissioning of an integrated suite of catheter laboratories and magnetic resonance scanning facilities in 2006. This unique fusion will allow ‘simultaneous’ multi-mode investigation and treatment, setting the scene for MRI-guided interventional procedures in children, and providing for unique physiologic insights into cardiovascular disease.

The cardiovascular research focus within the Research Institute has made fundamental contributions to our understanding of the cellular biology and molecular genetics of pulmonary vascular bed, with recent diversification to include the study of the fetal 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.
HONOURS AND AWARDS
Benson L. Medec Award for Medical Achievement, 2005.

PUBLICATIONS


Greenway SC, Bradley TJ, Caldarone CA, Silverman NH, Hanley FL, Smallhorn JF: Aortopulmonary window with anomalous origin of the right coronary artery from the pulmonary artery: Two cases highlighting the importance of complete pre-operative echocardiographic evaluation of the coronary arteries in all conotruncal anomalies. European Journal of Echocardiography 2005: December 12 [Epub ahead of print].


Molecular mechanism of congenital heart block. Hamilton R, Silverman ED, Gross G. Canadian Institutes of Health Research ($25,000 2006)


Preconditioning Study Equipment Grant. Redington AN, Rahbek M, Kharbanda R. Danish Heart Foundation ($10,000 2004-2005)


Role of chronic inflammation and systemic lupus erythematosus-related factors in the development of premature atherosclerosis in pediatric SLE. Silverman ED, Bargman JM, Boyne J, Bradley T. The Heart and Stroke Foundation of Ontario ($304,826 2006-2009)

Temporal profiling and circulating effectors of remote ischaemic preconditioning. Redington AN, Callahan J. Canadian Institutes of Health Research ($284,000 2006-2008)


The Fontan operation: Non-surgical catheter completion. Benson L. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($4,860 2000)


Transhepatic approach for fetal cardiac catheterization and intervention. Benson L, Jaeggi E, Chaturvedi R, Ryan G. SickKids Research Institute Seed Grant ($22,000 2002-2005)


OVERVIEW

The Division of Clinical and Metabolic Genetics is recognized nationally and internationally for its contributions to clinical genetics, genetics research and education. We have developed a number of different specialty clinics that have served to enhance patient care, to provide excellent teaching opportunities for SickKids trainees and to create important links between the Division and multiple clinical services within the hospital and community.

New clinical initiatives in the Division include expansion of transition clinics at University Health Network and Mount Sinai Hospital for Genetics Clinic patients entering adulthood. Also, the provincial newborn screening program has been expanded under the leadership of Dr. Joe Clarke.

Research endeavours in the Division are actively expanding and yielding important new data which are being translated into the clinical arena. The Division is participating in an international project called DECIPHER aimed at enhancing our understanding of the clinical relevance of genomic copy number variation in children.

The Fifth Annual Starbucks Studentship Award was won by Tamar Rubin. She contributed to a genotype-phenotype study on children with an overgrowth disorder, Sotos syndrome, and published two papers.

The Division of Clinical and Metabolic Genetics has developed and participated in numerous educational activities for physicians, other health care practitioners, and patients and their families. The Division has had a long-standing commitment to the education of health care providers. A joint presentation from our Division and the Department of Psychiatry to the American Psychiatric Association on the 22q11 Deletion Syndrome was extremely well received. As well, Division members participated in two educational initiatives regarding genetics, aimed at community primary care providers.

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

Yoon G. San Francisco Neurological Society Research Award – Second place, 2005.

PUBLICATIONS


<table>
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<tr>
<th>Division Head</th>
<th>Full-Time</th>
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<th>Clinical Fellows</th>
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<tr>
<td>Dr. Rosanna Weksberg</td>
<td>Dr. David Chitayat</td>
<td>Dr. Alan Berzen</td>
<td>Dr. Fatma Al-Jasmi</td>
<td>Dr. Fatbiya Al-Murshedi</td>
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<td>Dr. Joe Clarke</td>
<td>Dr. Karen Chong</td>
<td>Dr. Chantal Morel</td>
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<td>Dr. Annette Feigenbaum</td>
<td>Dr. Leona Fishman</td>
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<td>Dr. Roberto Mendoza</td>
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<td>Dr. Stephen Meyn</td>
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<th>Residents</th>
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<td>Dr. Fathiya Al-Murshedi</td>
<td>Ardian Shtyla</td>
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<td>Dr. Tawfeg Ben-Omran</td>
<td>Susan Strinon-Lypka</td>
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<td>Dr. Hanna Faghfouri</td>
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<th>Administrative Staff</th>
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<tr>
<td>Jennifer Costa</td>
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<td>Michael Delaney</td>
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<td>Melissa Galluzzo</td>
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<td>Melanie Lameront</td>
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<td>Halleh Rezvany</td>
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BOOKS AND BOOK CHAPTERS


FUNDING


Canadian Centre for Applied Cancer Genetics. M eyn M S. Canadian Foundation for Innovation ($452,000 2002-2006)

Canadian M olecular Cytogenetics Platform. Friedman JM, Chitayat D. Canadian Foundation for Innovation ($4,512,925 2005-2010)

Canadian M olecular Cytogenetics Platform. M eyn M S. Canadian Foundation for Innovation ($4,600,000 2004-2009)

Collaborative Graduate Training for Program in M olecular M edicine. M eyn M S. Canadian Institutes of Health Research ($123,000 2004-2008)

Elucidation of the pathways involved in degradation of mutant lysosomal enzymes. M ahuran D, Brown E, C allahan J, Lukacs G, W ithers S, Clarke JTR. PENCE Protein Science Research Funding ($160,000 per year 2002-2005)


Genomic determinants of schizophrenia in individuals with 22q11 deletion syndrome. Weksberg R. N AR S AD ($100,000 2005-2007)

Genomic determinants of schizophrenia in individuals with 22q11-syndrome. M eyn M S. N AR S AD ($99,000 2005-2006)


M olecular basis of Leigh syndrome. R obinson B, F eigenbaum A, C ameron J. Jacobs L adder ($50,000 2004-2005)

Phenoptin in PKU. P KU -004. M ulticentre open label clinical trial. F eigenbaum A. B iomarin ($22,000 2006-2007)

Phenoptin in PKU-001 Phase II. M ulticentre open label clinical trial. F eigenbaum A. B iomarin ($56,000 2005-2006)

Phenoptin in PKU-003 Phase II. M ulticentre double blind placebo controlled clinical trial. F eigenbaum A. B iomarin ($9,000 2005-2006)


TK T 027: A phase I-II pharmacokinetic-pharmacodynamic study of R epilag to assess the effects of alternative dose and regimen in patients with Fabry disease. F reedman J, C lare JTR. T ranskaryotic T herapies Inc. ($394,000 2005)
The Division of Clinical Pharmacology and Toxicology focuses on a wide range of drug-related issues in paediatrics. Our major clinical activities include a consultation service, the Motherisk program (Director: Dr. Koren), the Ontario Regional Poison Information Center (Medical Director: Dr. Thompson), and DART (Drug Allergy, Reactions, and Toxicity) clinic in collaboration with the Division of Allergy and Immunology to provide specialized outpatient follow-up and management for those with various drug/toxin-related problems. The two toxicology information centers receive about 35,000 (Motherisk) and 75,000 (Poison Information Center) inquiries annually. Both centers have reached the limit of the response capacity of the systems. Since the fall of 2005, when the other center in Ontario closed its operation, we have been increasing the system capability of our poison information center to deal with the substantial increase in the service volume. In 2005, the Palliative and Bereavement Care Service of the hospital (Medical Director: Dr. Christine Newman) joined the Division and we now are able to provide expertise specifically on drug therapy for terminally ill patients.

The Division is one of the two major training sites of the Royal College accredited Clinical Pharmacology Residency Program of the University of Toronto. Our medical residency training program spearheaded the recent change of the specialty residency training structure to add Emergency Medicine to the existing four entry disciplines, which include Paediatrics. This change enables us to train residents with an emergency medicine background in the clinical toxicology stream in our education program.

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. Breadth and depth of these research programs are shown in the publication and funding records. In 2005, Dr. Koren was recognized by the Department of Paediatrics as the winner for the Physician Research Award for Career Excellence. Our part-time staff member, Dr. Juurlink, was the 2005 winner of the William B. Abrams Award from the American Society for Clinical Pharmacology and Therapeutics, and the 2006 Piarsky Young Investigator Award from the Canadian Society for Clinical Pharmacology.

**Honours and Awards Received**

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**


Division Head
Dr. Shinya Ito

Full-Time
Dr. Gideon Koren
Dr. Christine Newman
Dr. Irena Nulman
Dr. Margaret Thompson

Part-Time
Dr. David Juurlink

Scientific Staff
Dr. Patricia Harper

Cross-appointees/Scientific
Dr. Sylvain Baruchel
Dr. Ran Goldman
Dr. Sheila Jacobson
Dr. Prashant Joshi
Dr. Christopher Punshiram
Dr. Denis Scolnik
Dr. Neil Shear
Dr. Marco Sivilotti

Cross-appointees/Clinical
Dr. Lidia Derewlany
Dr. Tom Einarson
Dr. Bonnie Stevens
Dr. Anna Taddio

Clinical Fellows
Dr. Radinka Boskovic
Dr. Tal Finkelstein
Dr. Yaron Finkelstein
Dr. Facundo Garcia Bournissen

Dr. Miho Inoue
Dr. Massoud Rezvani
Dr. Alon Shrim
Dr. Nobuko Taguchi
Dr. Toshihiro Tanaka
Dr. Parvaneh Yazdanibrojeni

Research Fellows
Dr. Katarina Aleksa
Dr. Kazuhiro Kosuge
Dr. Alejandro A. Nava-Scampo

Dr. Shin-ichiro Takahashi
Dr. Satoko Uematsu
Dr. Haibo Xu

Residents
Dr. Craig Railton
(Anaesthesia, Clinical Pharmacology)
Dr. Lisa Thurgur
(Emergency Medicine, Clinical Pharmacology)

Administrative Staff
Niki Balamatsis
Sarah Bondy
Hila Halshtok
Leah Moscato


Dubovsky D: It's been a year already... You mean it's only been a year? Journal of Fetal Alcohol Syndrome International 2005: 3: p e9.


Einarson A, Koren G: Defective alleles may not have contributed to adverse effects. Therapeutic Drug Monitoring 2006: 28: pp 142-143.


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)
Improving prenatal vitamins to women. Koren G. Duchesnay Incorporated ($400,000 2004-2007)
Hair analysis for cortisol and testosterone. VanU, M, Koren G. The Physicians’ Services Incorporated Foundation ($130,000 2006-2008)
OVERVIEW

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 Kids Rehab (formerly Bloorview McMann 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 Kids Rehab Research Institutes are working closely together to augment research activities related to developmental disorders.

CONSOLIDATION

HONOURS AND AWARDS


Kennedy T: Received the Wilson Centre for Research in Education Research Day, Richard Roznick Award for the best poster presentation, University of Toronto, October 27, 2005.

PUBLICATIONS


Acting Division Head
Dr. Daune L. MacGregor
(to March 15, 2006)
Dr. Golda Milo-Manson
(March 15, 2006 to present)

Postgraduate Education Training Director
Dr. Golda Milo-Manson

Physicians
Dr. Douglas Biggar
Dr. Darcy Fehlings
Dr. Cynthia Goldfarb
Dr. Elizabeth Jimenez
Dr. Tamarah Kagan-Kushnir
Dr. Anne Kawamura
Dr. Tara Kennedy
Dr. Peggy Kokpatrick
Dr. Wendy Roberts
Dr. Jay Rosenfield

Developmental Fellows
Dr. Christakis Christof
Dr. Anita Jethwa
Dr. Alvin Loh
Dr. Angelina Orsino
Dr. Jonathan Ponesse

Administrative Staff
at SickKids
Maureen Hodge
Barbara Zimnowdski
FUNDING


A randomized cross-over trial evaluating the efficacy of Modafinil to reduce paediatric spasticity. Fehlings D, Milo-Manson G, Murphy A. Ontario Cerebral Palsy Foundation ($5,000 2004-2005)


Self-perception, behavioural attributions and perceptions of social relationships of adolescents with ADHD and LD. Weiner J, M alone M. Social Services & Humanities Research Council of Canada ($143,877 2005-2008)

The development and evaluation of the HAT-D: A discriminative tool differentiating types of hypertonia in children. Fehlings D, Jethwa A, M acarthur C. The Bloorview Research Institute Seed Grant ($9,606 2006)


OVERVIEW The past year continued to be a highly productive time for the Division of Endocrinology with ongoing development of existing programs and new innovations. We have had seven trainees in our subspecialty training program: three Canadian, two Israeli, one Australian and one from the UAE.

Our areas of clinical focus continue to be: (i) Diabetes: our comprehensive program provides ongoing care to nearly 1,000 children and teens with diabetes, and is well integrated into the provincial network of paediatric diabetes programs; (ii) General Endocrinology emphasizing the areas of growth, thyroid disease, intersex conditions and reproductive health; (iii) Calcium: the Calcium-Bone and Osteoporosis Clinics assess children with abnormal bone health from a wide variety of causes; (iv) Gynaecology section: provides care to pre-teen and adolescent girls across a wide spectrum of disorders. Recent initiatives include 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.

Our research efforts have targeted 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 and obesity in children and adolescents and the evolution of these conditions; (iii) study of the factors affecting metabolic control and the early complications of diabetes; (iv) psychosocial and psychological outcomes in diabetes and other endocrine disorders; and (v) evaluation of disorders of calcium and bone mineral metabolism in paediatrics.

HONOURS AND AWARDS
Allen L: Berlex Undergraduate Teaching Award, 2005-2006.
Hamilton J: NovoNordisk Young Investigator Career Development Award, 2005.
Hamilton J: The Hospital for Sick Children, Department of Paediatrics: Richard Rowe Junior Faculty Award for Excellence in Clinical Medicine – Runner Up, 2005.
Kives S: Berlex Undergraduate Teaching Award, 2005-2006.
Klip A: Berson Award, American Physiological Society in conjunction with the International Union of Physiological Sciences, 2005.
Ornstein M: Berlex Undergraduate Teaching Award, 2005-2006.

PUBLICATIONS
Division Head
Dr. Denis Daneman

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

Part-Time
Dr. Jacqueline Curtis
Dr. Susan Kirach
Dr. Stacey Urbach

Gynaecology
Dr. Lisa Allen, Section Chief
Dr. Nicolette Cacia
Dr. Sari Kives
Dr. Melanie Ornstein

Gynaecology Fellow
Dr. Judith Lacy

Cross-Appointees
Dr. Amira Klip
Dr. Joanne Rovet

Honorary
Dr. Robert Ehrlich

Subspeciality Residents/
Clinical Fellows
Dr. Abdulla Aljunaibi
Dr. Shazhan Amed
Dr. Bojana Babic
Dr. Louise Conwell
Dr. Dror Koltin
Dr. Marianna Rachmied

Research Fellows
Dr. Helen Bui
Dr. David Cherney

Administrative Staff
Mira Milne
Joyce Robinson
Minet Smith
Zarine Tilak


BOOKS AND BOOK CHAPTERS


FUNDING
A longitudinal study of eating disturbances, psychosocial functioning and medical complications in adolescent girls and young women with type 1 diabetes mellitus. Rodin G, Colton P, Daneman D, Olmsted M. Canadian Institutes of Health Research ($178,500 2003-2006)

A phase IV open label study of predictive markers in growth hormone deficient and Turner syndrome prepubertal children treated with SAIZEN. Hamilton J. Serono Canada Incorporated (Funding distributed on a per patient basis; total to date: $3,070 2005-2006)


Comparison of the continuous vs cyclic use of a 30-MCG ethinyl estradiol 0.15 mg desogestrel oral contraceptive pill in adolescents. Allen L, Brown C. Akzo Nobel - Organon Canada ($24,500 2006-2008)

Comparison of the continuous vs cyclic use of a 30-MCG ethinyl estradiol 0.15 mg desogestrel oral contraceptive pill in adolescents. Allen L, Brown C. The Physicians' Services Incorporated Foundation ($75,000 2006-2008)

Dynamics of GLUT4 in skeletal muscle. Klip A. Canadian Diabetes Association ($150,000 2004-2006)

Fetal alcohol syndrome: Oxidative stress and innovative therapies. (Aiii) Structural manifestations of FAS/ARND brain injury. Rovet J. Canadian Institutes of Health Research New Emerging Team Grant ($50,000 2002-2007)

Final adult height in children with idiopathic growth hormone deficiency treated with growth hormone. Daneman D. Serono Canada Inc. ($8500 2005-2006)


BOOK OF SHAME

Intracellular compartment plasticity and signal transmission in insulin action. Klip A. Canadian Institutes of Health Research ($759,560 2005-2010)


Neuroimaging studies of hippocampal formation in children with pre- and post-natal thyroid hormone insufficiencies. Rovet J, Desrocher M, McCandless PM, Shepard E. Canadian Institutes of Health Research (728,640 2006-2011)


The genetics and neuroendocrinology of short stature (GeneSIS). Hamilton J. Primary Investigator. SickKids site. Lilly International Growth Study ($58,542 2002-2006)

The GH M onitor R egistration. Hamilton J, Daneman D, Geary D, Perlman K, Hebert D, Sochett E, Langlois V, W herrett D, Pearl R. Seron Canada Inc. ($1,000 2005-2006)

The "Over 10" Program at The Hospital for Sick Children Diabetes Clinic. Daneman D, Frank M, Small M. The Lawson Foundation ($100,000 2005-2006)

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

TrialNet Clinical Center (Study group for prevention of type 1 diabetes). Wherrett DK, M ahon J, Daneman D. National Institutes of Health ($1,187,072 2001-2008)
OVERVIEW
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); in-patient management (transplant, GI, hepatology and nutrition); ambulatory clinics (including transplantation, home-TPN, dysphagia, general GI, hepatology and nutrition); and 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 ten 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 (including global nutrition) and hepatology. Funding support includes grants from the CIHR, NIH, CCF Foundation, Crohn’s and Colitis Foundation, the HJ Heinz Co. Foundation, Canadian Association of Gastroenterology, the CDC, Health Canada and more. This year, staff and Fellows in the Division have been honoured with awards, fellowships and named lectureships, including the Joseph M. Family West Memorial Award, the Elizabeth Arbuthnot Dyson Fellowship, the prestigious Starr Medal, the Canadian Society of Nutritional Sciences Earle Willard Mcherry Award, Honorary Life Membership in Dietitians of Canada, the annual Charlotte Anderson Memorial Lecture, Melbourne, Australia, the 6th Jonxis Lecture Groningen, The Netherlands and many more.

HONOURS AND AWARDS
Durie P: Annual Charlotte Anderson Memorial Lecture. Joint Grand Rounds, Department of Pediatrics, University of Melbourne, Murdoch Children’s Research Institute and Royal Children’s Hospital, Melbourne, Australia, 2005.
Durie P: Lecturer Foundation Day Our Lady’s Hospital for Sick Children Crumlin, Dublin, Ireland, 2005.
Durie P: The 6th Jonxis Lecture in the Department of Pediatrics/Beatrix Children’s Hospital, University Medical Center Groningen, The Netherlands, on May 30 2006. The lecture is named after Prof. Jonxis, one of the main founders of the Department of Pediatrics in Groningen, and the first to introduce subspecialities in pediatrics in The Netherlands. He also was a great researcher. The previous Jonxis Lectures were given by Prof. Moxon from Oxford, Prof. Strauss from St. Louis, Prof. Visser from Rotterdam, Prof. Kahan from Cleveland, and Dr. Prakken from Utrecht, The Netherlands, 2006.
Zlotkin Z: Canadian Society of Nutritional Sciences Earle Willard Mcherry Award (in recognition of distinguished service to the field of nutritional sciences in Canada), 2005.

PUBLICATIONS
Avitzur Y, Galindo-Mata E, Jones NL: Oral vaccination against Helicobacter pylori infection is not effective in mice with Fab ligand deficiency. Digestive Diseases and Sciences 2005: 50: pp 2300-2306.
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. Eric Benchimol
Dr. Wael El-Matary
Dr. Juan Gana
Dr. Jason Yap

Research Fellows
Dr. Tanja Gonska
Dr. Alexo Muise
Dr. Khalid Noli

Subspecialty Residents
Dr. Dan Turner
Dr. Thomas Walters
Dr. Eytan Wine

Administrative Staff
Gail Bratby
Sherry Buckle
Chona Callejo
Nedina Henra
Margaret Johnson
Joanne McHugh
Lisette Shakur


BOOKS AND BOOK CHAPTERS


FUNDING

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)

A randomized, double-blind, parallel group clinical trial to assess safety, tolerability, pharmacokinetic, and pharmacodynamics, of three consecutive monthly doses of intravenous mepolizumab (SB240563) (0.5 mg/kg, 2.5 mg/kg or 10 mg/kg) in pediatric patients with eosinophilic esophagitis, aged 2 to 17 years. (Study MEE103219). Marcon P, Mack D, Roberts EA. *Canadian Association of Gastroenterology/ Nestlé/ Canadian Institutes of Health Research Paediatric Nutrition Fellowship Award* ($60,000 2004-2006)

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

Investigation of Helicobacter pylori survival in host cells. Jones NL. *Early Researcher Award, Ontario Ministry of Research and Innovation* ($150,000 2006-2011)


Molecular genetics. SDBS function and deficiency in SDS. Rommens J, Durie PR. *National Institutes of Health* (US $1,250,000 2004-2009)

Molecular mechanisms associated with H. pylori survival in macrophages. Jones NL. *Canadian Association of Gastroenterology/ Canadian Institutes of Health Research/R x&D* ($60,000 2004-2006)


R EACH. 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 AM. *Centocor, Inc.* (US $80,500 2003-2005)


The contribution of genetic modulators of disease severity in cystic fibrosis to other diseases with similarities of clinical phenotype. Durie PR, Zielenski J. *Genome Canada* ($5,787,662 2005-2009)

The prevalence of hepatopulmonary syndrome in children. Ling SC. *The Hospital for Sick Children Paediatric Consultants Partnerships Grant* ($3,928 2006-2007)

The use of hydroxyethyl starch for determination of amino acid requirement. Pencharz P, Ball R. *Medical Research Council/ Canadian Institutes of Health Research* ($152,967 2005-2010)

U CP-2 expression in Wistarian mice. Award for Calvin Lau. *Department of Pharmacology* ($2,400 Summer 2005)
The Division of Haematology/Oncology is responsible for the investigation and management of children with cancer and serious blood disorders. The Division, in collaboration with the Division of Immunology/Allergy, also has responsibility for the Ministry of Health designated program for paediatric haematopoietic stem cell transplantation in the Province of Ontario.

In 2005-2006, the Division comprised 25 full-time paediatric haematologists/oncologists. Activities in the Division are organized within six sections and three programs. Each section/program consists of an expert multidisciplinary team that coordinates the investigation and management of children with a specific group of disorders. For example, children with brain tumours. The six sections are: leukemia/lymphoma (section head, Dr. Ron Grant); solid tumour (section head, Dr. Alberto Pappo); neurooncology (section head, Dr. Eric Bouffet); stem cell transplantation (section head, Dr. John Doyle); in-patient services (section head, Dr. Ahmed Naqvi); and haematology (section head, Dr. Victor Blanchette). Within the section of haematology, there are large programs in the inherited and acquired bleeding disorders of children, haemoglobinopathies (the thalassemias and sickle cell syndromes), and the paediatric bone marrow failure and myelodysplasia syndromes (director, Dr. Yigal Dror). The three programs are: long-term follow-up or aftercare of children with cancer (director, Dr. Mark Greenberg); new agents and innovative therapies (director, Dr. Sylvain Baruchel); and cancer genetics (co-directors, Drs. David Malkin and Rosanna Weksberg). The Division continues to build its outreach program and in 2006 established a new satellite sickle cell clinic in partnership with William Osler Health Centre.

The Division’s international fellowship program continues to excel with some 35 fellows from 16 countries pursuing clinical/research training in the specialty of paediatric haematology/oncology/stem cell transplantation. During the year, the Division’s training program director, Dr. Michael Capra, ensured a smooth transition from the two-year to a new three-year Royal College-accredited training program in paediatric haematology/oncology.

Clinical/research achievements within the Division were recognized in the 2006 Department of Paediatrics awards. Dr. Sheila Weitzman was co-recipient of the prestigious Richard Rowe award for clinical excellence; Dr. Michael Capra was recipient of the junior faculty award for clinical excellence; and Dr. David Malkin was recipient of the 2006 University of Toronto, Department of Paediatrics physician researcher award for scientific accomplishment. During the year, Dr. Malkin was appointed as associate chief of research (clinical) in the Research Institute. Two haematology/oncology fellows, Dr. Loretta Lau (supervisor, Dr. Meredith Irwin) and Dr. Uri Tabori (supervisors, Dr. David Malkin and Eric Bouffet) were recipients of awards for research by subspecialty fellows. Dr. Tabori also placed first in the 18th Annual National Paediatric Resident/Fellow Research competition. Two neurooncology fellows, Dr. Uri Tabori and Dr. Lucie Lafay-Cousin received the 2006 ASCO fellowship award. The recipient of the Dr. Alvin Zipursky teaching award was Dr. John Doyle.

In 2005, Dr. Sylvain Baruchel spent a sabbatical working with Dr. Bertolini at the European Institute of Oncology in Milan, Italy where he pursued studies in the field of angiogenesis with a focus on paediatric oncology. Novel biomarkers of angiogenesis are now implemented in the research laboratory of Dr. Baruchel which acts as a reference angiogenesis facility for the Children’s Oncology Group (COG). Thirteen of the 25 faculty in the Division hold formal appointments as scientists/associate scientists in the Research Institute.
In 2005-2006, Drs. Hans Hitzler and Annie Huang were recipients of new operating grants from the National Cancer Institute of Canada (NCIC). Dr. Walter Kahr was recipient of a new operating grant from the Canadian Institutes of Health Research (CIHR) and a clinician scientist salary award from the Heart and Stroke Foundation of Ontario.

Plans for expansion for the Division's facilities are now a reality following a donation of 1 million dollars from the Colonel Sanders Children's Foundation (directed to enhancement of the daycare facility), and a grant from the Ministry of Health for development of a new haematology/oncology ambulatory clinic. With Ministry approval the in-patient stem cell transplantation facility increased by a total of two beds to 14 - a much needed expansion for a service that performed 85 transplants in the past year (50 allogeneic, 35 autologous).

Administrative achievements over the year include completion of a Divisional database for hematology/oncology; work is ongoing to complete the stem cell transplantation component of the database. The Division is actively participating in the hospital web-based online ambulatory review management system (ARMS).

HONOURS RECEIVED

PUBLICATIONS


FUNDING
A multi-center natural history of iron overload. Kirby M. National Institutes of Health (US $1,100 2001-2006)


A randomized study of IVIG vs IVIG with high dose methylprednisolone in rapidly augmenting platelet counts in childhood ITP. Carcao M D, Blanchette V S, Bayer Inc. ($145,065 2004-2006)


Acute Megakaryocytic Leukemia in Down syndrome. Hitzi J. National Cancer Institute of Canada ($137,484 2005-2006)


Beyond mutism: Motor speech disruption in children with posterior fossa tumours. Beal D, Bouffet E, Campisi P, Low A, M abbott D. b r a i n . c h i l d. ($39,000 2003-2005)

Biochemical and genetic analyses of JPO2, a novel c-M yc oncogene interacting protein. Huang A. National Cancer Institutes of Canada ($440,082 2006-2009)

Biochemical and genetic analyses of JPO2, a novel c-M yc oncogene interacting protein (Equipment). Huang A. National Cancer Institutes of Canada ($29,479 2006-2007)


Cancer and chemosensitivity. Irwin M S. Premier's Research Excellence Award ($150,000 2004-2009)

Carboplatin hypersensitivity reaction in paediatric low grade glioma patients. Bouffet E, Lafay-Cousin L, Sung L. b r a i n . c h i l d ($11,800 2005)


Characterization of a novel family of Myc protein interactors and their role in medulloblastoma transformation. Huang A. Eli Lilly-Cancer Care Ontario Clinician Scientist Award, Phase 2: Eli-Lilly, Cancer Care Ontario/Canadian Institutes of Health Research ($675,000 2004-2007)


Clinical Trial Consortium. Pappo A, Bouffet E, Baruchel S. Ontario Cancer Research Network ($1,000,000 2005-2008)


Defining the clinical phenotype of inherited marrow failure syndromes and the risk factors of severe haematological complications and cancer by the Canadian Inherited M arrow Failure Registry (CIMFR). D r o y. Counc i l of Canadian Paediatric H ematology/ Oncology Directors Research Network ($83,000 2005-2007)


Development of a M olecular Medicine Textbook to support the new medical undergraduate curriculum. Ho gg D, M alkin D, A ubin J. The Dean's Excellence Fund for Innovation in Medical Education ($40,000 2005-2006)


Diagnostic and treatment delays in childhood centres in Canada. Franco E, B arr R D, Greenberg M, M ery L, M orrison H. Canadian Institutes of Health Research ($64,000 2003-2005)


Factors promoting multi-drug resistance and tumour. Chan H S L.
National Cancer Institute of Canada ($321,135 2002-2005)
Functional analysis of p73: Roles in chemosensitivity and apoptosis.
Irwin M S. National Cancer Institute of Canada ($479,941 2003-2007)
Functional analysis of the p53 family members p73 and p63 roles
in apoptosis, development and cancer. Irwin M S. Canada Research
Chair Tier II (Salary Award) ($500,000 2003-2008)
Genetic risk factors for CVA in children with HbSS. Kirby M.
National Institutes of Health (US $1,200 2002-2005)
Genomic analyses of paediatric supratentorial primitive
neuroectodermal tumours. Huang A. (first international recipient).
Children's Brain Tumour Foundation ($150,000 2005-2007)
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)
Hope: The complex journey of parents of children with cancer.
Antle B, Barrera M, Beaune L, Capra M, D’Agostino N, M aloney AM, N
icholas D,Volpe J. Canadian Institutes of Health Research
($291,067 2005-2008)/b.r.a.i.n.child ($25,000 2005-2008)
Identification of genes involved in marrow failure and malignant
myeloid transformation by gene expression analysis of bone marrows
from patients with inherited marrow failure syndromes. Dror Y.
Beyene J. Anemia Institute of Research and Education ($60,000
2004-2006)
Identification of genetic markers of chemosensitivity in
medulloblastoma tumours. Huang A. Brain Tumour Foundation
Canada ($20,000 2004-2005)
Identification of genetic pathways that regulate survival and
development of cancer and cancer stem cells. Guidos C, Hitzler J.
Genome Canada ($330,000 2005-2009)
Immune thrombocytopenia purpura (ITP), quality of life instrument
validation study. Blanchette VS, Wakefield C. Canogene ($100,000
2004-2005)
Improving communication during the palliative care of children with
brain tumours – Learning from experience. Bouffet E, Chau T, Beal
D, Van Halderen C, Brownstone D, Eaton C. b.r.a.i.n.child ($49,592
2005-2006)
Interdisciplinary Health Research Team (I H R T) in musculoskeletal
neoplasia. Bell R L, Andrulis I, Wunder J, Alman B, M alkin D, Davies A,
Canadian Institutes of Health Research ($7,140,000 2001-2006)
International Prophylaxis Study Group. Blanchette VS, Bayer
Inc./Baxter BioScience/ Aventis/Wyeth/GI ($750,000 2002-2006)
International registry of paediatric cutaneous T-cell lymphoma:
A longitudinal, prospective, observation study of cutaneous-T-cell
lymphoma in the paediatric population. Pope E, Weinstein M,
Weltman S, Taylor G. Canadian Dermatology Foundation ($10,000
2004-2005)
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)
In vitro and in vivo studies for the continuous infusion of Kogenate
Blanchette VS, R and M L. Bayer Inc. ($92,000 2004-2005)
Magnetic resonance imaging (M R I) of elbows, knees and ankles of
subjects enrolled in the Escalating Dose Primary Prophylaxis Study.
Feldman B, Blanchette V, Barnard D, Klaassen R, Pai M, Bruny T,
Demers C. Bayer Inc. ($86,842 2003-2005)
Mechanisms of neutropenia. Dror Y. Neutropenia Support Group
of Canada ($22,000 2005-2006)
Moderate term musculoskeletal outcomes with escalating dose
prophylaxis. The Canadian H emophilia Prophylaxis Follow-Up Study
(CH PS-2). Feldman BM, Blanchette VS. Bayer Inc. ($585,077
2003-2005)
Molecular determinants of tumour formation in Li-Fraumeni
Syndrome. Malkin D. National Cancer Institute of Canada
($387,000 2004-2007)
Nephrotoxicity: Conventional versus liposomal amphotericin B in
children. Parshuram C, Allen U, Bohn D, Doyle J, Guildy D, Grant R,
Griffiths K, H arvey E, R ichardson S. Fujisawa Healthcare
Incorporated ($101,700 2003-2005)
Neuroimaging and cognitive function in children with brain tumours.
Abbott D, Bouffet E, Noseworthy M, Laughlin S, Hyder D.
SickKids Foundation ($122,395 2003-2005)
New surrogate markers of angiogenesis in paediatric brain tumours.
Baruchel S, Bartels U, Hawkins C, Stempak D, Bouffet E,
Abdelhaleem M, Doyle J. b.r.a.i.n.child ($97,446 2006-2008)
Optimizing primary stroke prevention in children with Sickle
Cell Anemia STOP II. Kirby M. National Institutes of Health
(US $65,250 2000-2005)
Paediatric Phase I Consortium. Baruchel S, Pappo A, Gammon J.
National Cancer Institute/Children’s Oncology Group ($250,000
2002-2007)
Pain in child health: An innovative, trans-disciplinary, cross-Canada
research training consortium. McGrath PJ, Barr R, Baruchel S, Brown
S, Camfield C, Chambers C, Connolly J, Craig K, Dubé L, Feldman
B, Finley G, Frager G, Gibbins S, Grunau R, Harman K,
J, M urray M, O berlander T, O hisson A, O tley A, R athwell T, S alter M,
Canadian Institutes of Health Research ($1,800,000 2002-2008)
Palliative chemotherapy versus supportive care alone for end-of-life.
Sung L, Hind S, Llewellyn-Thomas H, Volpe J, Capra M, Gammon J,
Baruchel S, Bouffet E, Barrera M, Tomlinson D, Greenberg M L.
National Cancer Institute of Canada ($131,626 2005-2008)
Parents of children with cancer. Klaassen A, Sung L, Dix D, Pritchard
S, Yanofsky R. National Cancer Institute of Canada ($225,000
2004-2006)


Role of p53 and VEGF signaling in paediatric sarcomas. Malkin D. SickKids Foundation ($200,000 2002-2007)


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

Telomere maintenance in the biologic behaviour of low-grade gliomas. Makin D, Tabori U. b.r.a.i.n.child ($60,000 2004-2006)


The role of SBDS in granulopoiesis. Dror Y. SickKids Foundation ($64,480 2006-2008)

The role of SBDS in protection from apoptosis. Watanabe K, Dror Y. The Hospital for Sick Children Research Training Competition ($105,000 2004-2007)

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


Toronto Angiogenesis Research Centre. Kerbel R, Baruchel S, Burns P, Dumont D, Emkelnman M. Canada Foundation for Innovation 40%, OIT 40%, and partner institutions 20% of total award ($11,630,155 2002-2006)

Tumour volume as measurement of response to chemotherapy in paediatric low grade gliomas. Bartels U, Laughlin S, Abbott D, Bouffet E. b.r.a.i.n.child ($13,775 2006)

a decade of change
1996-2006
DEPARTMENT OF PAEDIATRICS

Clinical Departmental Fellowship Program – created in 1996 to address the problem of after-hours clinical coverage; has international impact and has grown from 3 fellows to over 30 fellows per year

Established new University of Toronto Department of Paediatrics Division of Developmental Paediatrics – March, 2005

Enhanced presence of Paediatrics within the Faculty of Medicine’s undergraduate training programs

Expanded post-doctoral training programs – 195 physicians from 34 different countries were training in our department in 2005-2006

Department of Paediatrics Annual Awards Day honours our outstanding paediatricians for their contributions to clinical work, education and to research

Increase in number of department members who hold appointments within the Research Institute and increase in the amount of peer-reviewed research grant funding
On June 30, 2006, Dr. Hugh O’Brodovich stepped down from his role as Paediatrician-in-Chief and Chair of Paediatrics after completing two five-year terms. The past 10 years have seen great changes in the Department of Paediatrics that have impacted clinical care, research endeavours and educational programs. Dr. O’Brodovich was instrumental in effecting these important changes, some of which are highlighted here.

Implementation of the Career Development and Compensation Program – Utilizing individual physician Job Profiles, expectations and benchmarks are defined to guide career development

Central involvement in the National Coalition for Child and Youth Health/ OCHN/SPCC – improvement of child health

Establishment of dedicated physician leadership for Palliative Care and Acute Care Transport Services

Formation of the Paediatric Executive to complement the Department’s excellent Division Heads and to provide consultation on important departmental issues

Successful renegotiation of our AFP (2001-2006) resulted in increased recruitment to meet clinical and education needs and to expand research efforts
Overview

With a profound dedication to research, medicine and education, the Division of Immunology/Allergy reigns as an international leader in primary immune deficiencies (PID). Dr. Chaim Roifman, Head of the Division of Immunology/Allergy at SickKids and of the Infection, Immunity, Injury and Repair Program in the Research Institute has been treating and studying inherited deficiencies of the immune system for over 20 years. Armed with his commitment and expertise, this Division continues to flourish raising the bar in PID knowledge and treatment annually. This year marks the establishment of the Canadian Jeffrey Modell Foundation Network for Primary Immunodeficiency. Through the guidance of Dr. Roifman, this national program is facilitating early recognition, diagnosis, research and effective treatment of primary immune deficiencies, while increasing overall awareness. Sites have been implemented in Halifax, Montreal, Toronto, Winnipeg, Calgary, Edmonton and Vancouver. These locations will ensure knowledge dissemination and communication among health care professionals, patients and the general public, while providing access to excellent care for PID patients throughout Canada.

The Hypogammaglobulinemia Program at SickKids operates as one of the largest treatment programs of its kind in the world. With a long-term follow-up on over 150 patients, this treatment model allows for patients to have the expertise of the Immunology team at The Hospital for Sick Children, while being cared for in a convenient location close to home. As a global leader in the management and treatment of this PID disorder, our clinical team is continually invited to participate in national and international consensus conferences on patient management of hypogammaglobulinemia and gammaglobulin therapy. This year our Division proudly organized and chaired a symposium on home immune globulin therapy in Canada. This conference will further aid the convenient delivery of treatment to these patients by transferring therapy to the comfort of their own home.

The bone marrow transplantation (BMT) program for PID patients here in the Division of Immunology/Allergy is at the forefront for patient survival globally. Evaluation of BMT from matched unrelated donors (MUD) in severe combined immune deficiency (SCID) illustrated a 78% overall survival rate for our patients, in comparison to a 54% survival rate in similar patients treated in European centers with mismatched related donor BMTs. This benchmark recently published in JAMA will likely become the preferred modality of treatment for SCID.

With such success as a leader in childhood immune disorders, it is no surprise that guidelines for the diagnosis of combined immunodeficiency and syndromic PID were recently published by Dr. Roifman in the Manual of Clinical Laboratory Immunology, 7th edition text book.

Immunology research continues to thrive as an integral aspect of our Division. The development of novel compounds with the ability to kill cancer cells in vitro and in vivo has remained successful. Synthesis and screening of more than 50 compounds with high specificity for killing various solid tumours have resulted in two additional patents. The role of Eph receptors in the immune system is piece by piece coming together with our recent publication in the Journal of Immunology. Additional novel mutations have been identified in various PIDs. This has prompted testing of patients for aberrations in RAG1, gc, and the RNA component of RMRP (Pediatr 2005, J Pediatr 2005, JACI 2006). Meanwhile, thanks to innovation from Dr. Eyal Grunebaum’s laboratory, our progress in gene and protein therapy is soaring. In efforts to rectify the disappointing results of stem cell transplantation in Adenosine Deaminase (ADA) and Purine Nucleoside Phosphorylase (PNP) deficient patients, Dr. Grunebaum has developed a novel method to efficiently deliver full length enzymes into cells and genes into patients’ haematopoietic stem cells.

To honour the vast accomplishments of Dr. Chaim Roifman, the CIS established the Chaim Roifman Scholar Award in Host-Defense. The recipients of this award will be recognized as young investigators who demonstrate leadership qualities in PID research initiatives.

This year, Dr. Sergio Grinstein was awarded the Michael Smith Award by the Canadian Institutes of Health Research for his outstanding research in biochemistry and cell biology.
Division Head
Dr. Chaim Rolman

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. Maryam Al Helale
Dr. Dafihah Al-Zahrani
Dr. Mathah Hussain
Dr. Yew Hon Lai
Dr. Elana Lavine
Dr. Raz Somech

Clinical Assistant
Dr. Sean Bulley

Immunology Nurse
Brenda Reid, CNS

Allergy Nurses
Kimberley Seaban
Elisabeth White

Senior Scientists
Dr. Amos Cohen
Dr. Sergio Grinstein

Research Associate
Dr. Nigel Sharfe

Research Technologists
Lorand Cimpeon
Tom Gruneberger
Yiping Gu
Martina Nikolic
Melissa Paiva
Olga Rounova
Jun Yan Zhang
Education of all medical staff is an imperative component of the Division of Immunology/Allergy. In alliance with more than six national and internationally renowned training programs, the generation of specialty physicians in paediatric immunology and allergy is inevitable. By enhancing the exposure of immunology recruits to applied and basic immunology research, and encouragement to train as scientists and clinicians, this program captivates residents worldwide, exceeding the essential clinical and laboratory elements that permit outstanding immunology and allergy training. Fully approved by the Royal College of Physicians and Surgeons of Canada, our Division has recently initiated an additional international training program which is scheduled to commence in 2007. This program will build the infrastructure that is necessary to sustain an international program while enhancing the quality of training at our facility. In appreciation of Dr. Adelle Atkinson’s devotion to the instruction of immunology fellows, she was awarded the CI5 Physician’s Awareness Initiative Award for the second consecutive year. To support the development of nurses, a nursing education grant has been awarded by the Canadian Immunodeficiency Society (CI5). This esteem was presented to our very own certified immunology nurse specialist, Brenda R. Reid.

The clinical applications and research potential of primary immunodeficiencies touch almost every area of patient care—from the common cold to cancer. Thanks to the support of The Donald & Audrey Campbell Chair, the Jeffrey Modell Foundation, the Canadian Immunodeficiency Society and the Canadian Centre for Primary Immunodeficiency, children will receive the best research-enhanced care possible, as soon as possible, coupled with unparalleled levels of hope and promise for future generations.

HONOURS AND AWARDS
Grinstein S: Michael Smith Award, Canadian Institutes of Health Research, 2005.
Reid B: Nurses Awareness Initiative, Canadian Immunodeficiency Society, 2005.

PUBLICATIONS


BOOKS, BOOK CHAPTERS AND PROCEEDINGS


FUNDING

Analysis of the role of coronin in neutrophil chemotaxis. Grinstein S. Canadian Institutes of Health Research ($549,490 2004-2009)

Canadian centre for primary immunodeficiency. R oiﬁman C M . Jeffrey Modell Foundation ($296,000 2002-2009)

Correcting purine nucleoside phosphorylase (PN P) deﬁciency by intracellular delivery of human PN P combined with the HIV-TAT protein transduction domain. Grunebaum E. Canadian Institutes of Health Research ($100,000 2004-2006)

Correcting purine nucleoside phosphorylase using lentivirus mediates human PN P gene delivery into haematopoietic stem cells. Grunebaum E. SickKids Foundation and the Institute of Human Development, Child and Youth Health – Canadian Institutes of Health Research ($130,000 2006-2008)


Dual role of CD36 in macrophages Atherosclerosis and immune responsiveness. Grinstein S. The Heart and Stroke Foundation ($324,000 2006-2010)

Gene therapy for purine nucleoside phosphorylase deﬁciency. Grunebaum E. Jeffrey Modell Immunodeficiency Foundation ($10,000 2006)


Human platelet in immunohematologic disease. Grinstein S. National Institute of Health (US $228,000 2002-2006)

Imaging faculty: Multi-user maintenance. Grinstein S. Canadian Institutes of Health Research ($635,000 2005-2010)

Michael Smith Prize in Health Research. Grinstein S. Canadian Institutes of Health Research ($500,000 2004-2009)

Molecular mechanisms of phagocyte activation. Schreiber A, Grinstein S. Canadian Institutes of Health Research ($635,000 2001-2006)


N urses awareness initiative education grant. R ei d B. Canadian Immunodeﬁciency Society ($800 2005)

Physician awareness initiative education grant. Atkinson A. Canadian Immunodeﬁciency Society ($15,000 2003-2006)

Primary immunodeﬁciency (PID) registry. R oiﬁman C M. Canadian Blood Services/Bayer Inc. ($194,150 2004-2006)

Role of eph receptors in the immune system. R oiﬁman C M. Canadian Institutes of Health Research - 2nd renewal ($350,000 2004-2007)

Targeting and regulation of ion transporters. Grinstein S. Canadian Institutes of Health Research ($804,500 2004-2009)
OVERVIEW The Division of Infectious Diseases is a leader in clinical, educational, and research activities 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 have a leading role in national and international epidemiological, clinical, research advisory and related committees (e.g., the Infectious Diseases Society of America, the Canadian Paediatric Society, Health Canada, the American Society for Transplantation, the Government of the Bahamas, and the HIV/AIDS program in Russia).

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.

During the past year, the Division continued to have a leadership role in structuring the approach to the management of major infectious disease threats and controversies. In this regard, the Division has been very actively involved in influenza pandemic planning efforts at SickKids as well as provincially and nationally. In addition, members of the Division had a major leadership role in the organizing of consensus conferences on the management of community-acquired methicillin-resistant S. aureus infections, as well as the management of fungal infections in children in the era of new, expensive and controversial therapies.

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.

In the past academic year, we were fortunate to have Dr. Valerie Waters join our Division as a Clinical Investigator, having completed her training in infectious diseases at Columbia University. Part-time faculty members who joined us include Dr. Anu Wadhwa and Dr. Alana Rosenthal who were trained at the University of Toronto.

One of our fellows, Dr. Jason Brophy was selected for a SickKids Foundation Student Humanitarian award. Faculty members continue to hold editorships, visiting professorships and related academic honours nationally and internationally.

HONOURS AND AWARDS
Allen U. Visiting Professor, University of Calgary (Foothills Hospital), University of the West Indies, Jamaica.
Brophy J. SickKids Foundation Student Humanitarian Award.
King S. Order of St. Lucia.

PUBLICATIONS


BOOKS AND BOOK CHAPTERS


Funding


Assessment of parents’ attitudes about disclosure of medical error. Laxer R, Friedman J, Stevens P, Matlow A. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($7,750 2005-2006)


Immunization Monitoring Program Active (IM PACT) including pneumococcal surveillance. Scheifele D, Halperin S, Ford-Jones EL (Site Investigator, Toronto) and 11 other IM PACT sites, Canada. Public Health Agency Canada/Canadian Paediatric Society ($5,000/year 1994-2006)


Knowledge and attitudes of pediatric residents towards disclosure of adverse events. Matlow A, Tallett S, Coffey T, Thomson K. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($4,925 2006-2007)


Mitochondrial DNA damage in infants exposed to HIV antiretroviral drugs in utero. Cote H, Forbes J, Moneys D, Burdge D, Harrigan R, Bitnun A, Read SE. Canadian Institutes of Health Research ($267,915 2006-2007)


The coxsackie-adenovirus receptor: Function meets infection in viral myocarditis and dilated cardiomyopathy. Opavsky A. The Heart and Stroke Foundation of Ontario ($172,014 2005-2007)

Tuberculosis immunity in childhood. Kitali I, Malloy P. Oregon Health Sciences University/National Institutes of Health (US $11,000 2005-2008)


Immunization Monitoring Program Active (IM PACT) including pneumococcal surveillance. Scheifele D, Halperin S, Ford-Jones EL (Site Investigator, Toronto) and 11 other IM PACT sites, Canada. Public Health Agency Canada/Canadian Paediatric Society ($54,110 2006-2007)


Knowledge and attitudes of pediatric residents towards disclosure of adverse events. Matlow A, Tallett S, Coffey T, Thomson K. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($4,925 2006-2007)


Mitochondrial DNA damage in infants exposed to HIV antiretroviral drugs in utero. Cote H, Forbes J, Moneys D, Burdge D, Harrigan R, Bitnun A, Read SE. Canadian Institutes of Health Research ($267,915 2006-2007)


The coxsackie-adenovirus receptor: Function meets infection in viral myocarditis and dilated cardiomyopathy. Opavsky A. The Heart and Stroke Foundation of Ontario ($172,014 2005-2007)

Tuberculosis immunity in childhood. Kitali I, Malloy P. Oregon Health Sciences University/National Institutes of Health (US $11,000 2005-2008)


neonatology

OVERVIEW
The Division of Neonatology wishes to thank Drs. Christine Newman and Jae Kim for their past service to the Division, and wishes them well in their ongoing careers in Palliative Care at The Hospital for Sick Children and in Neonatology at the University of California at San Diego, respectively.

The three level III NICUs at The Hospital for Sick Children, Mount Sinai Hospital and Sunnybrook Health Sciences Centre (Women’s College Hospital site) continue to suffer from a shortage of sufficient funded level III NICU beds to adequately meet the maternal and neonatal needs of our catchment area. We are, however, encouraged that the Ministry of Health and Long-Term Care has recently formed an NICU Steering Committee, including representation from each of our three centres, to address the provincial requirement for level III NICU beds.

The Division has an “Approved” Neonatal-Perinatal Fellowship Training Program, which continues to train the largest number of subspeciality trainees in Neonatology of any centre in Canada. The welcome increase in the number of Canadian trainees continues.

The Division continues to be well supported by major funding agencies for its various foci at the three sites, including lung biology, epidemiology, outcomes-based research and clinical trials.
Clinical Fellows
Dr. Olufunmi Akindele
Dr. Guillermo Colantonio
Dr. Animitra Das
Dr. Walid El Naggar
Dr. Amr. El Shahed
Dr. Lianxiang Fei
Dr. Emer Finan
Dr. Silvio Gonzalez
Dr. Sudqi Hamadah

Dr. Ben Hur Johnson
Dr. Linh Ly
Dr. Ashok Mittal
Dr. Charlotte Moore
Dr. Prashanth Murthy
Dr. Nehad Nasef
Dr. Arvind Seghal
Dr. Sandesh Shivananda
Dr. Hanifi Soylu
Dr. Raghild Steen

Dr. Chris Tomlinson
Dr. Allison Tytell
Dr. Simone Vaz
Dr. Meijian Zhao
Dr. Adrian Ziino

Research Fellows
Dr. Ben Hur Johnson
Dr. Azer Masoud
Dr. Man Yi
Dr. Adrian Ziino

Administrative Staff
Sonia Dos Santos
Ana Granic
Catherine Martin
Jewel Randolph
**PUBLICATIONS**


Paula S, Tanswell AK, Post M: Surfactant
Ridsdale R, Roth-Kleiner M, D’Ovidio F, Unger S, Yi M, Keshavjee


In 2005-2006.


OVERVIEW 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. The Division experience with nocturnal hemodialysis has expanded, and has been published in the Journal of Pediatrics. 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 physicians from Ireland, Israel, the U.K. and Saudi Arabia, as well as three Canadians. Their success is reflected by their successful publications. Dr. Anne Durkan was the recipient of the inaugural Roche NAPRTCS Award, under the supervision of Dr. Lisa R. Robinzon.

Dr. Hébert remains prominent within the NAPRTCS Clinical Sites Committee, and Dr. Geary remains on the Steering Committee of the Midwest Pediatric Nephrology Consortium, whose meeting was hosted in Toronto in March 2006.

On the research front, the Division members made numerous presentations nationally and internationally. Dr. Robinzon was successful in her appointment as Scientist in the Research Institute. Dr. Rosenblum, who continues as Associate Chair of the Department of Paediatrics – Research, was the recipient of the prestigious American Pediatric Society 2006 Outstanding Science Award.

In the coming year, the Division will welcome Dr. Christoph Licht, who has been recruited to enhance clinical research productivity. Dr. Geary will be on Sabbatical Leave; Dr. Norman Rosenblum will act as Administrative Division Chief, and Dr. Valerie Langlois will assume the role of Clinical Director.

HONOURS AND AWARDS
Rosenblum ND: Canada Research Chair in Developmental Nephrology (Tier 1), Canadian Institutes of Health Research, 2005-2012.

PUBLICATIONS
<table>
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<tr>
<th>Title</th>
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<tr>
<td>Division Head</td>
<td>Dr. Denis F. Geary</td>
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<td>Full-Time</td>
<td>Dr. Elizabeth Harvey</td>
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<td>Dr. Diane Hébert</td>
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<td>Dr. Valerie Langlois</td>
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<td>Dr. Tino D. Piscione</td>
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<td>Dr. Lisa Robinson</td>
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<td>Dr. Norman D. Rosenblum</td>
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<td>Part-Time</td>
<td>Dr. Rachel Pearl</td>
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<td>Dr. Leo Levine</td>
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<td>Clinical Fellows</td>
<td>Dr. Mohamed Al Maghrabi</td>
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<td>Dr. Yap Yok Chin</td>
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<td>Dr. Susan Koshy</td>
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<td>Dr. Ruth Schreiber</td>
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<td>Dr. Aoife Waters</td>
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<td>Research Fellows</td>
<td>Dr. Todd Alexander</td>
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<td>Subspecialty Residents</td>
<td>Dr. Marion Cummings</td>
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<td>Dana Debernyj</td>
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<td>Judith McNicol</td>
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<td>Juliet Rodrigo</td>
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<td>Marisa Tuzzi</td>
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<td>Debbie Warrick</td>
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FUNDING
Biomedical Scholarship. Piscione T D. Kidney Foundation of Canada ($45,000 2004-2006)

Canadian Research Chair in Developmental Nephrology (Tier 1). Rosenblum ND. Canadian Institutes of Health Research, Canada Research Chairs Program ($200,000 2005-2012)

Canadian Child Health Clinician-Scientist Program. Rosenblum ND. Canadian Institutes of Health Research ($1,800,000 2002-2008)

Canadian Child Health Clinician-Scientist Program. Rosenblum ND. B.C. Research Institute for Children's and Women's Health ($150,000 per year 2002-2008)


Clinician Child Health Clinician-Scientist Program. Rosenblum ND. SickKids Foundation ($300,000 per year 2002-2008)

Control of branching morphogenesis in the normal and dysplastic kidney. Rosenblum ND. Canadian Institutes of Health Research ($148,700 per year 2003-2008)


How sonic hedgehog and its signaling effectors control kidney morphogenesis. Rosenblum ND. Canadian Institutes of Health Research ($134,419 per year 2006-2009)

Smad-beta-catenin interactions in cystic kidney disease. Rosenblum ND. Kidney Foundation of Canada ($50,000 per year 2004-2006)


The role of NOTCH1 in kidney development. Piscione T, Radte F, Ellis J, Quaggin S. The Kidney Foundation of Canada ($49,845 per year 2004-2007)

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

The role of SLIT/Robo signaling pathways in kidney inflammation. Lisa Robinson. Early Researcher Award, Government of Ontario ($100,000 2006-2008)
OVERVIEW

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, functional neuroimaging and neurointensive care.

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. The research foci of the Division of Neurology is 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

Banwell B: Named one of Canada’s Top 40 Under 40. This is a national program that celebrates Canada’s leaders of today and tomorrow and honours Canadians who have reached a significant level of success and achievement, but have not yet reached the age of 40. The program is designed to promote mentorship and professional development by introducing these leaders to the community and by promoting them as role models for young Canadians.

Banwell B: Recipient of the William A. Hawke Award. This award is presented annually to a Neurology faculty member for excellence in clinical teaching.

Callen D: Recipient of the William J. Logan Award. This award is presented annually to a Neurology trainee for excellence in clinical teaching.

Tam E: Recipient of the annual John Stobo Prichard Award for her presentation entitled “Neuroimaging in neonatal hypoglycemia”.

PUBLICATIONS


BOOKS AND BOOK CHAPTERS


FUNDING

Are executive dysfunctions in autism reflected in altered coordination dynamics of brain activity? Perez Velazquez JL. SickKids Foundation/Canadian Institutes of Health Research, New Investigator Award ($129,000 2005-2007)

A typical absence epilepsy: GABAB receptor-mediated mechanisms. Snead OC, Francis J, Cortez MA. Canadian Institutes of Health Research ($315,376 2000-2008)

A typical absence epilepsy: GABAB receptor-mediated mechanisms. Snead OC, Perez Velazquez JL. Canadian Institutes of Health Research ($726,430 2003-2007)

Carnitine-responsive cardiomyopathy and the different-affinity carnitine transporters. Tein I. The Heart and Stroke Foundation of Ontario ($267,144 2004-2007)

Characterization of factors and mechanisms that explain the association between physical activity and lung health in cystic fibrosis. Does muscle function play a role? Ratjen F, Coates A, Tein I. Canadian Cystic Fibrosis Foundation ($158,000 2006-2008)


Childhood stroke project: Ontario needs assessment for childhood stroke. deVeber G. Ontario Ministry of Health and Long-Term Care ($185,000 2005-2007)

Clinical trials for spinal muscular atrophy. Iannaccone S, Vajsar J. National Institutes of Health ($2,400,000 2003-2006)

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

Dynamic brain patterns in neocortical areas during interpersonal transactions. Perez Velazquez JL. Bial Foundation (45,000 2005-2007)


International Paediatric Stroke Study: Networking Grant. deVeber G. Canadian Stroke Network ($40,000 2005-2006)

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

Katherine Chan, PhD Student. Snead O C. R estracomp Awards ($20,000 2005-2006)

Mitochondrial porin as a target against neurodegeneration. Perez Velazquez JL. Canadian Institutes of Health Research/Canadian Neurotrauma Research Program ($282,500 2000-2005)

Molecular basis of Lafora bodies (starch formation in the brain) and Lafora’s progressive myoclonus epilepsy. Minassian BA, Ackerley CA, Sherer SW, LoHi H. Canadian Institutes of Health Research ($1,146,830 2006-2011)

Molecular genetics and functional studies in Lafora’s progressive myoclonus epilepsy. Minassian BA, Sherer SW. Canadian Institutes of Health Research ($866,680 2000-2005)

Multiple-component remediation for struggling middle school readers. Morris R, Lovett M W, Sevcik R, Frijters J C. Institute of Education Sciences (US $2,800,000 2006-10)

M urine knockout model of 4-hydroxybutyric acid. Snead OC. *National Institute of Health* (U S $587,500 2006-2011)

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

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

Neuroimaging and plasticity in the immature brain. Shroff M M, Taylor M J. *Translational Research Grant, Department of Medical Imaging, University of Toronto* ($105,000 2005-2008)


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* ($10,074 2005-2006)

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* ($143,870 2005-2008)

Sleep disturbances in children with an involuntary movement disorder. Soman T, Logan W, Weiss S. *Budget funds from collaborators* ($2,000 2006)

Stroke Investigators Award. deVeber G. *The Heart and Stroke Foundation of Ontario* ($52,500 2005-2006)
OVERVIEW
The Emergency Department (ED) at The Hospital for Sick Children provides acute care to children who are ill or who have been injured. We are both the primary care centre for children in Toronto, plus the tertiary referral centre for the Greater Toronto Area (GTA), in addition to being the designated Paediatric Trauma Centre for the GTA. A Paediatric Emergency Procedural Sedation Course has been developed by emergency staff physicians. This course has been provided locally and nationally. In addition, we were fortunate to secure funding for redevelopment of the ED. We look forward to the redevelopment of the physical plant. This redevelopment will ensure that the ED at SickKids remains a leader in paediatric emergency care.

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 clinical departmental 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, the Division will present the third Paediatric Emergency Medicine Update which in the past two years has been 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. 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.

HONOURS AND AWARDS
Benseler S: Clinical Recognition Award, Division of Paediatric Emergency Medicine, The Hospital for Sick Children, 2005.
Boutis K: Runner up for Best Teacher in The Hospital for Sick Children Emergency Department, 2005.
Calpin C: The Hospital for Sick Children Preclerkship Teaching Award, 2005.
Jarvis A: Division of Paediatric Emergency Medicine Annual Clinical Teaching Award, 2005.
Jarvis A: Department of Paediatrics Richard Rowe Award for Clinical Excellence, 2005.
Minnes B: Peel District School Board Award of Distinction, Mississauga, Ontario, 2006.
Dr. Domenick Shelton  
Dr. Heshy Sturm  
Dr. Jeff Weisbrot  
Dr. Sheldon Wise  
Dr. Hirotaka Yamashiro

Cross-Appointees  
Dr. Astrid Guttmann  
Dr. Jamie Hutchison  
Dr. Jonathan Tolkin  
Dr. Hilary Whyte

Clinical Fellows  
Dr. Samir Deiratany  
Dr. Tamar Flanders  
Dr. Vered Gazit  
Dr. Maria Oliva  
Dr. Michal Maimon  
Dr. Lilian Teixeira

Research Fellows  
Dr. Khalid Al-Ansari  
Dr. Sami Al-Farsi  
Dr. Zaid Alharbash  
Dr. Faraj Alharbi  
Dr. Nesrin Alharthy  
Dr. Adam Cheng  
Dr. Seen Chung  
Dr. Melissa Parker  
Dr. Ayelet Rimon-Babad

Administrative Staff  
Jo Azaraga  
Viki Dukic  
Ritsa Iriotakis  
Sandra Miller  
Patricia Nedanovski  
Majda Savaglio  
Andrew Serrano
PUBLICATIONS


BOOK CHAPTERS


FUNDING


B. Barriers to establishing a medical home in Latinos with limited English proficiency. T. Hull Friedemann J., Gupta S. Division of Emergency Medicine, Department of Pediatrics, Northwestern University Medical School ($3,225 2004-2005).


D. Climbing the learning curve: A new approach to teaching non-radiologists x-ray interpretation of ankle x-rays. Boutis K., Puic M., N. A. Arayan U., Pecaric M. Royal College of Physicians and Surgeons Medical Education Research Grant ($50,000 May 2005).

E. Climbing the learning curve: A new approach to teaching non-radiologists x-ray interpretation of C. X. R. and wrist radiographs. Boutis K., Pucic M., N. Arayan U., Pecaric M. Dean’s Excellence Fund, University of Toronto and Department of Paediatrics matched funding ($40,000 2005).


Funding for research coordinator initiative spearheaded by S. Schuh, the Research Director in the ED. Schuh S. Trudell Medical ($50,000 2006-2008)

Improving the management of sickle cell patients: Are we meeting the recommendations? Mikrogianakis A, Valani R, Scolnik D. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($2,500 2005-2006)

Medication error reduction initiative in the emergency department. Ratnapalan S, Jarvis A. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($5,387 2005-2006)

Parental reasons for return visits within 72 hours to a paediatric emergency department. Goldman R D, Kim V H D. Trainee Start-Up Fund ($2,000 2005-2007)


Randomized trial of oral disintegrating O ndansetron tablet to reduce vomiting from acute gastroenteritis in a paediatric emergency department. Freedman SB, Powell EC. GlaxoSmithKline ($84,212 2003-2005)

Randomized trial of oral disintegrating O ndansetron Tablet to reduce vomiting from acute gastroenteritis in a pediatric emergency department. Approximately 25 research assistant hours/week (payment in form of Research Nurses). Freedman SB, Powell EC.

National Centre for Research Resources, National Institute of Health (US $10,400 per year 2003-2005)


The impact of an emergency department and community-based gastroenteritis protocol on knowledge and emergency department utilization. Freedman SB. Pediatric Consultants Educational Research Grant ($4,527 2005)


Two siblings at the same visit. Goldman R D, M innes B. Emergency Medicine Fund ($5,000 2004-2005)


Validation of the appendicitis score. Goldman R D, Langer J. General Surgery Fund ($9,000 2003-2005)

92 Department of Paediatrics, Annual Report 05-06
OVERVIEW
Paediatric Medicine was formed a number of years ago through the amalgamation of three separate divisions: General Paediatrics, Paediatric Dermatology and Suspected Child Abuse and Neglect (SCAN), and is currently the second largest division in the Department of Paediatrics. There are 14 full-time faculty, 9 major part-timers (who spend anywhere from 20-50 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 those with rare genetic/metabolic diseases, severe developmental delay, and cerebral palsy. The third category is made up of very ill children and are admitted with no diagnosis and require multiple investigations and subspecialty 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. This year a vascular tumour (VAST) clinic has been added to some of the more established highly specialized dermatology clinics in epidermolysis bullosa, morphea and cutaneous T cell lymphoma. 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 paediatric medicine fellowship has a number of different streams including an academic fellowship (which includes a masters degree, usually in clinical epidemiology or education) and a more clinical ‘hospitalist’ fellowship. 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.

A new reference book for parents called ‘Caring for Kids: The Complete Canadian Guide to Children’s Health’ was written by 14 members of the Division and published early in 2006. It has already become a Canadian bestseller and has been bought by publishers in the United States and Britain. A new international textbook for paediatricians and trainees, the ‘Atlas of Pediatrics’ featured three chapters (Dermatology, SCAN and Development), as well as one of the associate editors from our divisional faculty.
The researchers in our division are involved in clinical research across a wide range of paediatric conditions, in addition to research in education. They have been successful in winning a number of grants and publishing in various peer reviewed journals (see next page for this year’s details). Very close ties with the Research Institute are maintained, with most of our faculty appointed as project directors in Population Health Sciences. Collaborative partnerships also exist with ICES, Bloorview Kids Rehab and community paediatric offices. Two of the trainees who won research awards at the departmental research day were supervised by our faculty.

This year’s departmental Awards Day Celebration once again recognized the quality of our divisional contribution to the Department of Paediatrics. A list of those staff members who received awards can be found in the Honours and Awards section below. Resident Research Awards went to Jonathon Maguire (Supervisor: Dr. Pat Parkin) in the core resident category and Cheng Ning Wang (Supervisors: Drs. Dick, To and Guttmann). University promotions this year included Dr. Colin Macarthur to Professor, Dr. Hartley Garfield to Associate Professor, and Dr. Douglas Campbell to Assistant Professor. Dr. Mark Feldman was named Chair of the Community Paediatrics Committee for the Canadian Paediatric Society in June 2006. The Division received the 1st Annual OHA Patient Safety Award.

HONOURS AND AWARDS
Campbell D: The Lionel Weinstein Clerkship Teaching Award, 2006
Friedman J: Harry Bain Resident Teaching Award, 2006
Guttmann A: 5 year Canadian Institutes of Health Research New Investigator Salary Support Award
Hilliard R: Helen P. Batty Award in Faculty Development for Teaching Excellence, 2006
Hilliard R: W.T. Aikins Award for Excellence in Teaching, Faculty of Medicine, University of Toronto - Small Group Learning, 2006
Mahant S: R.H.A. Haslam Preclerkship Teaching Award, 2006
Mahant S: Wightman-Berris Undergraduate Award for Teaching Excellence, 2006
Mian M: Voice of Courage Award, Toronto Child Abuse Centre, 2006
Saunders N: Marvin Gerstein Award for Excellence in Clinical Teaching, 2006
Saunders N: Richard Rowe Award for Clinical Excellence, 2006

Nominated:
Pope E: Junior Clinical Excellence Award, Department of Paediatrics, The Hospital for Sick Children, 2006
Saunders N: The Lionel Weinstein Clerkship Teaching Award, 2006

PUBLICATIONS


BOOKS AND BOOK CHAPTERS


FUNDING


A randomized, prospective, double-blind, placebo-controlled clinical study assessing the efficacy of topical Tacrolimus 0.1% ointment and topical Clobetasol propionate 0.05% ointment in the treatment of vitiligo. Ho N, Krafchik BR, Pope E, Greenberg S, Webster C, Weinstein M. Fujisawa Canada Inc. ($62,425 2004-2005)

A study to define the genetic basis of atopic dermatitis based on a reliable phenotype. Pope E, Krafchik BR, Albers S, Siminovitch K, Yeung R. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($4,000 1997-2005)


Aspiration prior to vaccination: A survey of community paediatric offices. Ipp M, Sam J, Parkin PC, GlaxoSmithKline, Unrestricted Research Grant ($14,000 2004-2005)

Child Health and Safety Research Unit. Parkin P, Macarthur C. SickKids Foundation ($1,000,000 2004-2009)

Guttmann A. Canadian Institutes of Health Research New Investigator Award ($50,000 2006-2011)


Development and evaluation of a child maltreatment curriculum for paediatric trainees. Shouldice M, M ian M, Capra L. Dean’s Excellence Fund for Innovation in Medical Education, University of Toronto ($8,752 2005-2006)


Does the administration of intravenous ketorolac alter the kinetics of intravenous morphine in children with vaso-occlusive sickle cell crisis? Scolnik D, Valani R, Friedman JN, Goldman R, Koren G. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($10,000 2004-2006)


Emergency department rapid intravenous rehydration (RIVR) for pediatric gastroenteritis: A randomized controlled trial. Friedman SB, Parkin P, Willian AR, Schuh S. The Physicians’ Services Incorporated Foundation ($156,000 2005-2008)


How well do residency training programs prepare residents for clinical practice and their future careers? H illiard R, Lieberman L. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($5,000 2004-2006)

Initial presentation of sickle cell disease. Friedman J, Lieberman L, Kirby M. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($3,750 2005-2006)


Knowledge and attitudes of paediatric residents towards disclosure of adverse events. Matlow A, Coffey T, Tallett S, Thomson K. The Hospital for Sick Children Paediatric Consultants Educational Research Grant ($4,925 2006-2007)


Open label extension study to determine safety of Etanercept in paediatric subjects with plaque psoriasis. Pope E, Weinstein M. Amgen Inc. ($43,000 2006-2007)

Palindromy at the NF1 locus as a risk factor for NF1-associated malignancy. Lewis S, Parkin P. SickKids Research Institute New Ideas Grant Competition ($45,023 2006-2009)

PEW S translation project: From retrospective algorithm to real-time bedside tool. Christopher SP, Hutchison J, Parkin PC, Beyene J, Dryden-Palmer K. HSFO Grant-in-Aid (renewal) for the Pediatric Early Warning System ($74,652 2006-2007)

Placebo-controlled multicentre study with Etanercept to determine safety and efficacy in paediatric subjects with plaque psoriasis. Pope E, Weinstein M. Amgen Inc. ($42,000 2005-2006)

Presentation, management and outcomes evaluation of children with vascular tumours. Pope E, Mahant S, Weinstein M, Blanchette V. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($9,900 2006-2007)


Survey of attitudes and practices of physicians and mothers regarding analgesia during routine immunizations in childhood. Taddio A, Ipp M, Shah V. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($5,000 2005-2006)


The efficacy and safety of intravenous pulse steroids compared to standard oral steroids in the treatment of problematic hemangiomas in infants: A randomized controlled trial. Pope E, Krafchik BR, Weinstein M, Baruchel S. Weston Grant for Pediatric Dermatology, Society for Pediatric Dermatology ($20,000 2002-2005)

The efficacy and safety of leukotriene inhibitors (Zafirlukast) in patients with moderate to severe atopic dermatitis Pope E. Trainee Start-Up Fund, SickKids Research Institute ($2,000 2001-2005)

TKT 024EXT: An open-label extension of study TKT 024 evaluating the long-term safety and clinical outcomes in MPS II patients receiving Iduronate-2-Sulfatase enzyme replacement therapy. Clarke JTR, Friedman J. Transkaryotic Therapies Inc. ($111,497 2005-2007)

**OVERVIEW** The Respiratory Medicine Program provides comprehensive care for the full range of paediatric pulmonary diseases such as 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 diagnostic services and follow-up care for children with sleep apnea, sleep related respiratory insufficiency. It is 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 anatomical abnormalities, infection in the immunocompromised host and children with interstitial lung disease. Over the last year, we have broadened our diagnostic spectrum of tests to assess diseases with airway inflammation including test of nitric oxide in exhaled air. The recent addition of an infant pulmonary function laboratory has broadened the potentials for diagnostic tools to objectively assess lung disease in infants and young children and is now open for the assessment of both patients in the hospital and for outpatients. It is currently the only laboratory in the country offering this service.

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 continues to be the largest paediatric lung transplant program in the country.

The training program has independent Royal College of Physicians and Surgeons of Canada accreditation and is the largest training program for paediatric respiratory medicine in the country. It 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.

Dr. Hartmut Grasemann, a respirologist with an interest in asthma genetics and nitric oxide metabolism, has become the newest member of the team. Dr. Allan Coates has rejoined our team after a sabbatical in Tour, France and will continue his work in the area of aerosol research and exercise physiology. He has been the paediatric representative on a Task Force developing standards for pulmonary function testing and has also developed standards for the delivery of an inhaled measles vaccine for the WHO. Members of the Division have become involved in an international program to develop a new classification for interstitial lung diseases (Dr. Dell), a NIH sponsored study on primary ciliary dyskinesia (Dr. Dell), Dr. Sharon Dell, in collaboration with researchers from Health Canada and McMaster University, is leading a study entitled “T-CHEQ” or Toronto Child Health Evaluation Questionnaire which is examining the association between asthma and traffic-related air pollution including parents of over 6,000 Grade 1 and 2 schools in Toronto. The Division is also involved in the planning of an ALLERGEN-sponsored birth cohort study to elucidate the factors important for the development of asthma in early childhood (Dr. Subbarao). In addition, the CF team is involved in a number of clinical studies including a multi-centre study on azithromycin in Pseudomonas negative CF patients that will be the first collaborative study funded by the US CF Foundation conducted in Canada and the US (Dr. Ratjen). The Division also continues to be involved in the NIH Childhood Asthma Management Program Continuation Study (Dr. Subbarao, Dr. MacLusky).

The major research foci include clinical and epidemiological studies in patients with asthma and cystic fibrosis, translational studies on airway inflammation in 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. For a more complete description of our research interests, please visit our website at: www.sickkids.ca/RespiratoryMedicine/section.asp?1=Research&ID=3878.
HONOURS AND AWARDS
Macleusky I: Recipient of the Claus Wirsig Humanitarian Award, 2006.
Solomon M: Nomination for Peter-Boyd Academy Undergraduate Education Award, 2006.

PUBLICATIONS
FUNDING

A Phase IIa randomized, open label, dose response study to determine the optimum dose of dry powdered mannitol required to generate clinical improvement in patients with Cystic Fibrosis. Ratjen F, Solomon M. Pharmaxis Ltd. ($100,160 2005-2006)

A pilot study on the relationship between traffic-related air pollution and asthma in grade one Toronto school children. Dell S, Stieb D, Jerrett M, Miller D, To T. Health Canada ($42,000 2004-2005)

Are exhaled nitric oxide levels different in paediatric sickle cell disease patients with asthma? A cross-sectional study. Grasemann H, Lieberman L, Subbarao P. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($10,000 2006)


Characterization of factors and mechanisms affecting physical activity, muscular function and lung health in Cystic Fibrosis. Coates AL, Ratjen R. Canadian Cystic Fibrosis Foundation ($180,000 2006-2008)


Glucocorticoid receptor and glucocorticoid-responsive genes in developing lung. Sweezey N, Kaplan F. Canadian Institutes of Health Research ($563,500 2004-2009)

How should nasal nitric oxide be measured to screen for PCD in children? Dell S, Grasemann H, Ratjen F. The Hospital for Sick Children Paediatric Consultants Partnerships Grant ($10,000 2006)


Ontario Asthma Database – Asthma plan of action strategy. To T, Cicuttio L, Dell S, Dick PT. The Ontario Ministry of Health ($500,000 2003-2007)

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)


Randomized, open labeled, cross over deposition study of Tobramycin 100 Pari nebulized with eFlow® versus TOBI® nebulized with Pari LC PLUS® in subjects with CF. Coates AL, Ratjen F, Harron M. Pari Gmb ($130,000 2006)


Lung allograft rejection gene expression observational study. Solomon M. Dx Expression Diagnostics ($7,500 2005-2006)


Is large birth weight predictive of asthma risk in early childhood? Dell S, To T, Latycheva O. Canadian Allergy, Asthma and Immunology Foundation ($10,000 2005-2006)


A multistage population-based study to determine the association between traffic-related air pollution and childhood asthma. Dell S, Stieb D, Gilbert N, Jerrett N, Miller D, To T. Health Canada ($562,273 2005-2007)
OVERVIEW
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.

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. This academic year, our fellows originated from Slovenia, Israel, Turkey, France, Brazil, Australia and Canada. Paediatric Rheumatology graduates have done extremely well in obtaining academic placements across Canada and around the world and trainees have been productive in the research arena.

Research foci include the development of trial design for the study of rare diseases, outcome, prognosis and treatment studies in juvenile arthritis, SLE, neonatal lupus, scleroderma, dermatomyositis and vasculitis. Basic research focuses on the immunopathogenesis of Kawasaki disease using an animal model.

HONOURS AND AWARDS
Feldman B: Promoted to Full Professor in the Department of Paediatrics, July 1, 2006.
Laxer R: Senior author of JAMA article, first evidence-based guidelines for treatment of JIA, recognized as one of the top 10 articles in the Rheumatology literature at the ACR. Meeting and one of the top 10 advances in rheumatology by the U.S. Arthritis Foundation.
Yeung R: Promoted to Associate Professor in the Department of Paediatrics, July 1, 2006.
Lau A (Supervisor: Yeung R): Won first place under the Graduate Student category for his talk on “Matrix Metalloproteinase-9 Activity Leads to Coronary Artery Aneurysm Formation in a Model of Kawasaki Disease.”

PUBLICATIONS

Division Head
Dr. Rayfel Schneider

Full-Time
Dr. Brian Feldman
Dr. Ronald Laxer
Dr. Earl Silverman
Dr. Shirley Tse
Dr. Rae Yeung

Major Part-Time
Dr. Lynn Spiegel

Part-Time
Dr. Bonnie Cameron

Cross Appointees
Dr. Susanne Benseler
Dr. Vivian Bykerk
Dr. Hans-Michael Dosch
Dr. Paul Fortin

Clinical Fellows
Dr. Tadej Avcin
Dr. Yonatan Butbul
Dr. Serdar Cantez
Dr. Sandrine Compeyrot

Clinical Research Fellow
Dr. Lucia Nukumizu
Dr. Davinder Singh-Grewal
Dr. Elizabeth Stringer

Administrative Staff
Sandra Bergeron
Shona Magee
Roseanne Richard


SickKids Research Institute Seed Grant ($36,000 2003-2005)


The role of non-traditional factors in the development of premature atherosclerosis in paediatric SLE. Silverman ED, B argman J, B radley T, B eyene J. T he H eart and S troke F oundation of C anada ($275,000 2006-2009)

The role of traditional and non-traditional risks in the development of atherosclerosis in paediatric SLE. Silverman ED, M cCrindle B, A deli K, B argman J. T he H eart and S troke F oundation of C anada ($271,854 2003-2006)


OVERVIEW This was an exciting year for Bloorview Kids Rehab. In February 2006, we moved into our new state-of-the-art facility, a building that sets standards for universal accessibility.

As a provincial facility, we see almost 7,000 children and youth on an outpatient basis and we have over 650 inpatient admissions each year. As a new backdrop for our work, we changed our name to Bloorview Kids Rehab from Bloorview MacMillan Children's Centre for a stronger name and identity. Our new identity signifies the infinite possibilities we see in each child and reflects Bloorview’s belief in exploring uncharted territories of clinical discovery and technological innovation in the area of childhood disability and complex continuing care.

Bloorview Kids Rehab 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.

Bloorview Kids Rehab 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 Bloorview Research Institute was created in April 2004 under the leadership of Dr. Colin Macarthur, Vice President, Research.

All of our medical staff members have appointments in the Department of Paediatrics at the University of Toronto.

We continue to run the largest subspecialty training program for developmental paediatrics in Canada.

In spite of our small size, our medical education program is very large with increasing requests for training.

5 developmental paediatric subspecialty residents full-time
16 general paediatric residents 1-month block
3 paediatric neurology residents 3-month block
3 psychiatry residents 2-month block
2 psychiatry residents 1-month block
4 medical students 3-month block

Our medical staff members lecture at the undergraduate level and throughout the year to paediatric and neurology residents at SickKids. Dr. Milo-Manson coordinates the developmental seminar for second year medical students at the University of Toronto.

HIGHLIGHTS March 2005 – Division of Developmental Paediatrics established and Dr. Daune MacGregor named interim Division Head while search for first Division Head continues. In March 2006, Dr. Golda Milo-Manson was named interim Division Head.

PUBLICATIONS
Chief of Medical Staff
Dr. Golda Mile-Manson

Faculty
Dr. Doug Biggar
Dr. Darcy Fehlings
Dr. Joanna Holland
Dr. Elizabeth Jimenez
Dr. Tamarah Kagan-Kushnir
Dr. Anne Kawamura
Dr. Tara Kennedy

Dr. Jeff Kobayashi
Dr. Gilbert Miller
Dr. Peter Rumney
Dr. Jonathan Tolkin

Developmental Subspecialty
Residents
Dr. Christos Christofl
Dr. Anita Jethwa
Dr. Alvin Loh
Dr. Angela Orsino
Dr. Jonathan Ponesse
paediatric housestaff

EDUCATION

PGY 4S
Chief Residents
Dr. Megan Harrison
Dr. Adam Rapoport

Associate Chief Residents
Dr. Farnaz Ardeshiri
Dr. Fatima Bhetai
Dr. Zia Bismilla
Dr. Dan Flanders
Dr. Joanna Holland
Dr. Rabah Mahmoud
Dr. Nileshwa Senthe

PGY 3S
Dr. Dana Al-Nabhani
Dr. Khalfan Alsenaidi
Dr. Heidi Al Waaia
Dr. Nirit Bernhard
Dr. Michaela Cada
Dr. Sarah Cheang
Dr. Sloane Freeman
Dr. Elizabeth Gold
Dr. Linda Hiraki
Dr. April Kam
Dr. Fohni Kavadas
Dr. Zina Levichek
Dr. Sanjeev Luthra
Dr. Jonathon Magueire
Dr. Shaun Morris
Dr. Sharon Naymark
Dr. Catharine Walsh
Dr. Fereshteh Yazdani Boroujeni

PGY 2S
Dr. Ghasan Abu Kuwaik
Dr. Youness Al-Darazi
Dr. Naifain Al-Kalbani
Dr. Nashat Al-Sukaiti
Dr. Daniela Ardelean
Dr. Celia Atkinson
Dr. Elizabeth Berger
Dr. Karoon Danayan
Dr. Krishanthi Gunawardena
Dr. Clare Hutchinson
Dr. Marissa Joseph
Dr. Mary Kairy
Dr. Vy Kim
Dr. Catherine Lam
Dr. Mathieu Lemaire
Dr. Caroline McLaughlin
Dr. Michelle Porepa
Dr. Tania Samanta
Dr. Rayzie Shulman
Dr. Joanna Swinburne
Dr. Eitan Weinberg

PGY 1S
Dr. Dalia Al-Abdulrazzaq
Dr. Fatoumah Al-Abdulrazzaq
Dr. Reem Al-Khater
Dr. Amal Al-Maani
Dr. Sowmya Balasubramanian
Dr. Ereny Basiliou
Dr. Michelle Batthish
Dr. Glenda Bendla
Dr. Nicholas Blanchette
Dr. Michelle Bridge
Dr. Sumit Gupta
Dr. Joeline Huber
Dr. Sangeet Kathuria
Dr. Naina Makheena
Dr. Melanie Makhija
Dr. Shruti Mehrotra
Dr. Briseida Mema
Dr. Ewurabena Simpson
Dr. Andrea Wan
Dr. Kevin Weingarten
OVERVIEW

A nationally and internationally recognized program, PAMOT is focused on the delivery of cutting-edge and state-of-the-art family-centred care for 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 this hospital. This year has continued as a busy clinical year for all the organ transplant groups. 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 liver transplants continue to provide an active and viable option for children with end-stage kidney and liver diseases. Last year, the 15th year of heart transplantation at the hospital was celebrated with a well-attended multidisciplinary event. This year will include a celebration and fund raising event to honour 20 years of liver transplantation at SickKids for children with end-stage liver diseases.

The training of a cadre of fellows who have been successful in obtaining academic appointments globally is another achievement of the PAMOT 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. Current trainees continue to reflect the international nature of the fellowship program and the multidisciplinary nature of transplantation: Anne Durkan (England, Nephrology), Sara Fernandez (Costa Rica, Nephrology), Juan Cristobal Gana (Chile, Gastroenterology), Daljit Hothi (England, Nephrology), Victoria Samonte (Philippines, Critical Care), and Jason Yap (New Zealand, Gastroenterology).

Current basic and clinic research activities are focused on optimizing outcomes in children after solid organ transplantation, including but not limited to: leukocyte trafficking in allograft rejection (Lisa Robinson); prevention of Epstein-Barr virus-induced post-transplantation lymphoproliferative disease (Upton Allen); adolescent issues and transition to adult care (Miriam Kaufman); quality of life study in liver transplantation (Vicky Ng); long term complications following heart transplantation (Anne Dipchand); and participation in the International Pediatric Lung Transplant committee (Mindy Solomon).

We continue active participation in international paediatric transplantation clinical research groups including: the North American Paediatric Renal Transplant Cooperative Study, Studies of Pediatric Liver Transplantation, and the Paediatric Heart Transplant Study Group. Members of PAMOT continued to serve as advocates for paediatric solid organ transplantation at the provincial, national and international levels. Members of PAMOT participate in multiple national and international transplantation meetings throughout the year.
The Department of Paediatrics completed another exciting and successful Grand Rounds program for the 2005-2006 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 (SickKids). 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 that 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, Rafael Schneider, Phil Sherman, Ron Laxer, Neil Sweezey, and Mel Freedman and our two paediatric Chief Residents, Dr. Adam Rapaport and Dr. Megan Harrison.

Some of the highlights of the 2005-2006 schedule included Dr. Scott Rivkees, Professor and Chair of Research of the Research Institute at Yale who was invited to be the 2005 Robert H.A. Haslam Lecturer. He gave an interesting presentation on potential novel therapeutics for brain injury in premature infants. Dr. Mary Croughan, Professor at the University of California at San Francisco, gave a fascinating presentation on the childhood outcomes following infertility and infertility treatment, findings that will clearly impact the paediatric field. Dr. David Barker of the University of Southampton was invited to give the 2005 Barry Smith Lectureship. He presented his theory known as the “Barker Theory” in which the origin for most adult diseases originates in early infancy. Dr. Donald Kohn, Director of Gene Therapy at Children’s Hospital of Los Angeles, presented the results of recent studies using stem cells in gene therapy for paediatric diseases. Dr. Brian Postl, CEO of the Winnipeg Regional Health Authority, was invited to be the Harry Bain - The Physicians’ Services Incorporated Foundation Lecturer for 2006. He presented important findings regarding health problems in Canadian aboriginal children. Dr. Richard Whitley, Vice-Chair of Pediatrics at University of Alabama, gave an update on influenza, discussing issues that relate to predictions for future pandemics. Other highlights included lectures from Drs. Robert Montgomery (University of Wisconsin), Judith Ross (Thomas Jefferson University), Ross Upshur (Sunnybrook), Dr. Fabrizio De Benedetti (IRCCS, Rome), Chris Forrest (Johns Hopkins University), Hugo Moser (Johns Hopkins University), Mark Palmert (Case Western University) and Donna Wall (Texas Transplant Institute).

As always, our own faculty gave outstanding presentations, including Drs. Norm Rosenblum (Nephrology), Teresa To (Chair, Population Health Sciences), Brenda Banwell (N eurology), David Malikin (H aematology- O ncology), and Keith Tanswell (R espiratory M edicine). Our basic science research colleagues also gave brilliant and inspiring presentations. Dr. Janet Rossant, who was recently appointed as Chair of the Research Institute in 2005, presented her ground-breaking research and gave examples of how mouse models can shed light on human genetic diseases; and Dr. Michael Salter, Senior Scientist in Brain and Behaviour, presented his work identifying the proteins that modulate pain, discoveries that may lead to important new targeted therapies in the pain management field. In a combined rounds presentation, Dr. Wendy Roberts, co-director of the Autism Research Unit, and Dr. Steve Scherer, Scientist in Genetics and Genomic Biology, gave an update of their clinical and basic science research in autism, with an emphasis on the increased understanding of the role of genetics. Finally, Dr. Hugh O’Brodovich, the outgoing Chair of Paediatrics, gave an outstanding presentation of his research in respiratory distress syndromes over the past decade.

In addition to these presentations, our faculty members, Drs. Patrick McNamara, Bo N gan, and Gregory Wilson, presented an extraordinary clinical pathological conference and our associate residents presented interesting clinical cases from the paediatric service. Dr. Nicholas Tourkout also presented his research as the recipient of the 2006 Andrew Sass-Kortsak Award for Excellence in Paediatric Research during a Fellowship. This represents only a fraction of the excellent rounds of our 2005-2006 program.

Grand Rounds will continue to be held every Wednesday from 9:00 a.m. to 10:00 a.m. in the Main Auditorium at SickKids. 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; and Frank Ferrari and Sam Mendolia, from the Audio-Visual Department at SickKids.
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. The following lists all the Grand Rounds presentations in the 2005-2006 academic year.

<table>
<thead>
<tr>
<th>DATE 2005</th>
<th>SPEAKER</th>
<th>PRESENTATION</th>
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<tbody>
<tr>
<td>July 6 to August 31</td>
<td>Summer Grand Rounds</td>
<td>Chief Residents</td>
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<tr>
<td>September 7</td>
<td>Dr. Scott Rivkees&lt;br&gt;Chair, Research Institute&lt;br&gt;Yale University</td>
<td>Does the adenosine play a role in white matter injury or prematurity?&lt;br&gt;&lt;i&gt;2005 Robert Haslam Lecture&lt;/i&gt;</td>
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<td>September 14</td>
<td>Associates Rounds</td>
<td>Two Cases</td>
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<td>September 21</td>
<td>Dr. Norm Rosenblum&lt;br&gt;Associate Chair, Research&lt;br&gt;Staff Nephrologist, Division of Nephrology&lt;br&gt;The Hospital for Sick Children</td>
<td>Probing the mysteries of renal malformation: There is light at the end of the (UV) tunnel</td>
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<td>September 28</td>
<td>Dr. Teresa To&lt;br&gt;Senior Scientist and Head, Population Health Sciences&lt;br&gt;Associate Professor, Public Health Sciences&lt;br&gt;The Hospital for Sick Children</td>
<td>Asthma health indicators – What are they and do we need them?</td>
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<td>October 5</td>
<td>Dr. Robert Montgomery&lt;br&gt;Professor, Pediatric Haematology&lt;br&gt;University of Wisconsin</td>
<td>Von Willebrand Disease – A common disorder less commonly diagnosed&lt;br&gt;&lt;i&gt;2005 Bernard Laski Memorial Lecture&lt;/i&gt;</td>
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<td>October 12</td>
<td>Dr. Janet Rossant&lt;br&gt;Head of Research Institute&lt;br&gt;The Hospital for Sick Children</td>
<td>The Centre for Modelling Human Disease: functional annotation of the mouse genome</td>
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<td>October 19</td>
<td>Dr. Brenda Banwell&lt;br&gt;Associate Scientist, Brain and Behaviour Research&lt;br&gt;Neurology, The Hospital for Sick Children</td>
<td>Does white matter? Acquired demyelination in children</td>
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<td>October 26</td>
<td>Dr. Judy Ross&lt;br&gt;Chief of Pediatric Endocrinology&lt;br&gt;Thomas Jefferson University</td>
<td>Genotype-phenotype relationships in Turner Syndrome (Monosomy X)</td>
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<td>November 2</td>
<td>Dr. John Reiss&lt;br&gt;Associate Professor of Pediatrics&lt;br&gt;Institute for Child Health Policy, University of Florida</td>
<td>Creating and evaluating excellent programs for transition from paediatric to adult care&lt;br&gt;&lt;i&gt;2005 Adolescent Conference Guest speaker&lt;/i&gt;</td>
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<td>November 9</td>
<td>Dr. Ross Upshur&lt;br&gt;Sunnybrook&lt;br&gt;Clinical Research Unit</td>
<td>Surviving SARS, Preparing for pandemics: Ethics, infectious diseases and modern health care organizations&lt;br&gt;&lt;i&gt;2005 Bioethics Week&lt;/i&gt;</td>
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<td>November 16</td>
<td>Professor David Barker&lt;br&gt;Division of Developmental Origins of Adult Disease&lt;br&gt;University of Southampton</td>
<td>The infant origins of coronary heart disease&lt;br&gt;&lt;i&gt;2005 Barry Smith lecture (neonatal)&lt;/i&gt;</td>
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<td>November 23</td>
<td>Dr. Michio Hirano&lt;br&gt;Columbia University, New York, New York</td>
<td>MNGIE: A tale of two genomes&lt;br&gt;&lt;i&gt;2005 Adam Barsky Lecture (mitochondrial)&lt;/i&gt;</td>
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<td>November 30</td>
<td>Dr. Hugo Moser&lt;br&gt;Professor of Neurology and Pediatrics, Johns Hopkins</td>
<td>Adrenoleukodystrophy: Treatment and prevention&lt;br&gt;&lt;i&gt;2005 Jacob’s Ladder Lecture (Genetic/Metabolic)&lt;/i&gt;</td>
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<td>December 7</td>
<td>Dr. Mary Croughan&lt;br&gt;Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF</td>
<td>Childhood outcomes following infertility and infertility treatment</td>
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<tr>
<td>December 14</td>
<td>Holiday presentation</td>
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<td>December 21-28</td>
<td>No Grand Rounds</td>
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<tr>
<td>January 4</td>
<td>No Grand Rounds</td>
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<tr>
<td>January 11</td>
<td>Dr. David Malkin&lt;br&gt;Professor of Paediatrics and Medical Biophysics&lt;br&gt;Director, Cancer Genetics Program&lt;br&gt;The Hospital for Sick Children</td>
<td>Cancer genetics testing</td>
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<td>January 18</td>
<td>Associate Rounds&lt;br&gt;Drs. Megan Harrison, Adam Rapoport, Dan Flanders</td>
<td>Case presentations</td>
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<td>January 25</td>
<td>Dr. Rich Whitley&lt;br&gt;Professor of Pediatrics, Microbiology, Medicine&lt;br&gt;and Neurosurgery&lt;br&gt;Loeb Scholar in Pediatrics&lt;br&gt;Director, Division of Pediatric Infectious Diseases&lt;br&gt;University of Alabama</td>
<td>Current thoughts on influenza</td>
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<td>February 1</td>
<td>Dr. Frederick J. Stoddard, Jr.&lt;br&gt;Massachusetts General Hospital&lt;br&gt;Shriners Burn Institute</td>
<td>Preparation for the psychological consequences of terrorism for children and families</td>
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<td>February 8</td>
<td>Dr. Alberto Pappo&lt;br&gt;Staff Oncologist, Division of Haematology/Oncology&lt;br&gt;The Hospital for Sick Children&lt;br&gt;Dr. David Hogg&lt;br&gt;Staff Oncologist, Division of Haematology/Oncology&lt;br&gt;University Health Network, Princess Margaret Hospital</td>
<td>It's a mole!!!...I think... Clinical aspects and molecular epidemiology of paediatric melanoma</td>
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<td>February 15</td>
<td>Dr. Michael Salter&lt;br&gt;The Hospital for Sick Children Research Institute</td>
<td>Molecular mechanisms of pain: Why should clinicians care?</td>
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<td>February 22</td>
<td>Dr. Linda Pololi&lt;br&gt;Senior Scientist and Resident Scholar&lt;br&gt;Women’s Studies Research Center&lt;br&gt;Brandeis University</td>
<td>Mentoring faculty in academic medicine&lt;br&gt;Med Ed Day</td>
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<td>March 1</td>
<td>Dr. Mark Palmert&lt;br&gt;Rainbow Babies and Children’s Hospital&lt;br&gt;Case School of Medicine</td>
<td>Why does Jill start puberty at 9 and Jane at 12? Genetic investigation of variation in pubertal timing</td>
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<td>March 8-22</td>
<td>Cancelled due to renovations in Main Auditorium</td>
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<td>March 29</td>
<td>Dr. Steve Scherer&lt;br&gt;Associate Chief, Infrastructure, Research Institute&lt;br&gt;Senior Scientist, Genetics and Genomic Biology&lt;br&gt;Dr. Wendy Roberts&lt;br&gt;Developmental Paediatrician, Bloorview Kids Rehab&lt;br&gt;Co-Director, Autism Research Unit&lt;br&gt;The Hospital for Sick Children</td>
<td>Early identification of autism: Will early signs assist mapping elusive genes?</td>
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<td>April 5</td>
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<td>April 12</td>
<td>Dr. John Barnard&lt;br&gt;Ohio State University&lt;br&gt;Children’s Research Institute</td>
<td>Recent advances in the biology of gastrointestinal polyps in children</td>
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<td>April 19</td>
<td>Dr. Keith Tanswell&lt;br&gt;Division Head, Neonatology&lt;br&gt;The Hospital for Sick Children</td>
<td>Evolving concepts in bronchopulmonary dysplasia: Teaching new dogs old tricks</td>
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<td>April 26</td>
<td>Dr. Fabrizio De Benedetti&lt;br&gt;Assistant Professor&lt;br&gt;Head, Laboratory of Rheumatology&lt;br&gt;IRCCS Ospedale Pediatrico Bambino Gesù&lt;br&gt;Rome, Italy</td>
<td>Systemic juvenile idiopathic arthritis: A model for the impact of chronic inflammatory diseases on growth and bones in children&lt;br&gt;&lt;i&gt;2006 Abraham Shore Lecture&lt;/i&gt;</td>
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<td>May 3</td>
<td>Dr. Donald Kohn&lt;br&gt;Professor, Department of Pediatrics&lt;br&gt;and Molecular Microbiology and Immunology&lt;br&gt;Children’s Hospital Los Angeles</td>
<td>Gene therapy using haematopoietic stem cells: Progress and pitfalls</td>
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<td>May 10</td>
<td>Resident Research Day</td>
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<td>May 17</td>
<td>Dr. Chris Forrest&lt;br&gt;Associate Professor of Health Policy&lt;br&gt;and Management and Pediatrics&lt;br&gt;Johns Hopkins University</td>
<td>Listening to the voices of children: The importance of child reports of their health in understanding their needs and predicting their success as students</td>
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<td>May 24</td>
<td>Dr. Nicolas Touret&lt;br&gt;Post-Doctoral Research Fellow&lt;br&gt;Cell Biology Program</td>
<td>Phagocytosis: From model systems to salmonella infection&lt;br&gt;&lt;i&gt;2006 Andrew Sass-Kortsak Lecture&lt;/i&gt;</td>
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<td>May 31</td>
<td>Dr. Donna Wall&lt;br&gt;Methodist Children’s Hospital/ Texas Transplant Institute</td>
<td>Cord blood transplantation for childhood leukemia&lt;br&gt;&lt;i&gt;2006 Daniel Burton Lecture&lt;/i&gt;</td>
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<td>June 7</td>
<td>Dr. Hugh O’Brodovich&lt;br&gt;Chief of Paediatrics&lt;br&gt;The Hospital for Sick Children</td>
<td>Hyaline membrane disease and bronchopulmonary dysplasia: A little history, a few contributions and where next</td>
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<td>June 14</td>
<td>Dr. Brian Postl&lt;br&gt;Winnipeg Regional Health Authority and&lt;br&gt;Paediatric Awards Day – Last GR before summer</td>
<td>The health of Canada’s aboriginal children: The continuing gap&lt;br&gt;&lt;i&gt;2006 Harry Bain – The Physicians’ Services Incorporated Foundation Lecture&lt;/i&gt;</td>
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<tr>
<td>June 21-28</td>
<td>No Grand Rounds</td>
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faculty awards

TEACHING/EDUCATION AWARDS

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

The Lionel Weinstein Clerkship Teaching Award to the faculty member who has demonstrated excellence in clerkship teaching
Dr. Douglas Campbell

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. Jeremy Friedman

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

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

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

PERLS (Paediatric Resident Lecture Series) Award to the faculty member who has demonstrated commitment to excellence in teaching at the Paediatric academic sessions
Dr. Melinda Solomon

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
Drs. Norman Saunders and Sheila Weitzman

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 Capra

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. David Malkin
TEACHING/EDUCATION AWARDS

Ondaatje Award to a senior resident for excellence in clinical teaching as nominated by core paediatric residents
Dr. Linda Hiraki
Dr. Megan Harrison

CLINICAL AWARDS

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

RESEARCH AWARDS

Paediatric Research Awards for excellence in Resident/Fellow research

Core Resident
1st place Dr. Linda Hiraki
2nd place Dr. Jonathon Maguire
3rd place Dr. Catharine Walsh

Post-Doctoral Research Fellow
1st place Dr. Mei hu Li
2nd place Drs. Paul Bradshaw and Darren Bridgewater

Graduate Student
1st place Dr. Andrew Lau
2nd place Dr. Dana Bronte-Tinkew
3rd place Cheng Ning Wang

Clinical Fellow
1st place Dr. Loretta Lau
2nd place Dr. Anne Durkan
3rd place Dr. Uri Tabori

ANNUAL RESIDENT AND FELLOW RESEARCH DAY
MAY 10, 2006

Oral Presentations
Zia Bismilla, Core Paediatrics
A prospective observational study of work, communication, education and physical stress in paediatric residents. Z Bismilla, VR Breakey, C Parshuram

Anne Durkan, Nephrology
Fractalkine expression and targeting in renal tubular epithelial cells. A Durjan, T Alexander, GY Liu, M Rui, L Robinson

Andrew Lau, Rheumatology
Matrix metalloproteinase-9 activity leads to coronary artery aneurysm formation in a model of Kawasaki disease. A Lau, TT Duong, EA Christie, S Ito, RSM Yeung

Jonathon Maguire, Core Paediatrics
The association between iron deficiency anemia and stroke in young children. J Maguire, G deVeber, P Parkin

Mauricio Terebiznik, Gastroenterology
Helicobacter pylori triggers autophagy in invaded cells. M Terebiznik, CL Vazquez, K Tobricki, MI Colombo, NL Jones

Rika Tsuchida, Haematology/Oncology
VEGF/Flt1 signaling pathway contributes to drug resistance and tumorigenesis in osteosarcoma by increasing tumour side-population cells and “stemness”. R Tsuchida, B Das, H Yeger, P Thorner, S Baruchel, D Malkin

Thomas Walters, Gastroenterology
The effect of infliximab therapy on linear growth in children with chronically active severe Crohn disease. T Walters, AR Gilman, AM Griffiths

Cheng Ning Wang, Paediatric Medicine
Socioeconomic status and health outcomes amongst Ontario infants with complex chronic conditions: A retrospective cohort study. CN Wang, P Dick, T To, A Guttmann
Poster Presentations

Khalid Al-Ansari, Emergency Medicine
Minimally angulated paediatric wrist fractures: Is casting without manipulation enough? K Al-Ansari, A Howard, K Boutis

Nafisah Al-Faris, Haematology/Oncology
Iron overloading in children with sickle cell disease with chronic red blood cell transfusion therapy. N Al-Faris, R Mahmoud, C Goia, M Palmer, M Kirby

Sami Al-Farsi, Emergency Medicine
Periurethral cleaning prior to urinary catheterization in children: Sterile water versus 10% povidone-iodine. S Al-Farsi, R Davidson, SE Richardson, S Ratnapalan

Zaid Al-Harbash, Emergency Medicine
Web-based orientation for paediatric emergency medicine trainees at The Hospital for Sick Children. Z Al-Harbash, W Mounstephen, S Ratnapalan

R eem Alkhatier, Nephrology
Towards the identification of paediatric movement disorders genes. R Alkhatier

Khalfan Alsenaidi, Core Paediatrics
Management and outcomes of double aortic arch in 81 patients. K Alsenaidi, R Gurofsky, T Karamlou, W Williams, BW McCrindle

Chhaya Ambekar, Haematology/Oncology
Effect of SBDS knockdown on cell growth. C Ambekar, K Watanabe, Y Dror

Shazhan Ahmed, Endocrinology
Variation in growth hormone immunoassays in clinical practice in Canada. S Ahmed, E Delvin, J Hamilton

R eema Amin, Respiratory Medicine
The effect of respiratory rate, tidal volume and temperature on exhaled breath condensate volume. R Amin, S Balkovec, R Atnjen, P Subbarao

Juan Pablo Appendino, Nephrology
Electroencephalogram in newborns with sinus venous thrombosis. J P Appendino

Michelle Barton-Forbes, Infectious Diseases
Immunogenicity of pneumococcal conjugate vaccine in cardiac transplant recipients. M Barton-Forbes, SWady, A Dipchand, G Pikula, the PAMOT Pneumococcal Vaccine Study Group, U Allen

M ony Benifla, Nephrology

Tawfeg Ben-Omrani, Clinical & Metabolic Genetics

Alessandra Bernasconi, Cardiology
Factors associated with arch reintervention and growth of the aortic arch following coarctation repair in neonates weighing less than 2.5 kg. A Bernasconi, T Karamlou, F Alhabshan, W Williams, G Van Arsdell, JG Coles, C Caldarone, E Jaeggi

Paul Bradshaw, Clinical & Metabolic Genetics
The human telomeric proteins TRF2, TRF1 and TIN2 are involved in a novel early DNA damage response. P Bradshaw, DJ Stavropoulos, M Trotter, D Gilley, M S Meyn

D arren Bridgewater, Nephrology
Beta-catenin deficiency or over-expression induces renal malformations in vivo. D Bridgewater, VAthilde, N Rosenblum

D ana Bronte-Tinkew, Gastroenterology
Helicobacter pylori CagA mediated modifications of the signal transducer and activator of transcription 3 (STAT3) signaling pathway. D Bronte-Tinkew, N Jones

D avid Callen, Nephrology
Magnetic resonance imaging criteria for the diagnosis of childhood multiple sclerosis. DJA Callen, M M Shroff, DK Li, D Stephens, BL Banwell

Chrisos Christofi, Developmental Paediatrics
Current sexual health practices of healthcare professionals providing care to adolescents with physical disabilities. C Christofi, M Kaufman, D Fehlings

H arold T Chui, Adolescent Medicine
Brain structure and function after weight restoration in adolescent-onset anorexia nervosa. HT Chui, DK Katzman, B C Christensen, R B Zipursky

Guillermo Colantonio, Neonatology
Reliability of a normal amplitude integrated EEG (aEEG) in encephalopathic neonates. G Colantonio, S Hamadah, M Keyzers, H Wythe, PJ McNamara

K aroon C Danayan, Core Paediatrics
Transcutaneous bilirubin measurement in jaundiced newborns. K C Danayan, V McGovern, K C Carlyle, A Nevin, B Stade, M Sgro, D Campbell

Claudia lace de Almeida, Cardiology
Percutaneous pulmonary valve implantation – the first North American trial. CL de Almeida, R Chatrvedi, JK Lee, E Horlick, G Smith, J Li, C Slorach, M Shimizu, F Golding, S-J Yoo, P Bonhoeffer, L Benson

Kevin A Donato, Gastroenterology
Epithelial responses to Escherichia albertii and Hafnia alvei infection. KA Donato, M Zareie, N Aliangary, AN Jassem, S Chan, PM Sherman
Adam D. Durbin, Haematology/Oncology
VEGF signaling through the AKT-mTOR axis in Rhabdomyosarcoma: A role of ILK? AD Durbin, M Forrester, D Malkin

Manal F El Sayed, Neonatology
Postoperative opioids for pain control in non-ventilated newborns. M F El Sayed, A Taddio, S Fallah, N De Silva, AM Moore

Emer Finan, Neonatology
Early discontinuation of prostaglandin after balloon atrial septostomy (BAS) is associated with an increased risk of rebound hypoxaemia. E Finan, W Mak, Z Bismilla, Pj McNamara

Yaron Finkelstein, Clinical Pharmacology

Deborah Fruitman, Cardiology
Contemporary results of neonatal intervention in patients with tetralogy of Fallot with pulmonary atresia. DS Fruitman, BW McCrindle, AN Redington, LN Benson, GS VanArsdell, TJ Bradley

Facundo Garcia-Bournissen, Clinical Pharmacology
Methamphetamine detection in maternal and neonatal hair as a biomarker of gestational exposure. F Garcia-Bournissen, BR okach, T Karakos, G Koren

Jane Gillis, Clinical & Metabolic Genetics
Genetic testing for inherited severe combined immunodeficiency syndrome (SCID) in a Nova Scotia First Nations population. J Gillis, N Dumas, S Dyack, L Ludman

Lin Guo, Clinical & Metabolic Genetics
Molecular and biochemical alterations in human intrauterine growth restriction. L Guo, R Weksberg

Abha Gupta, Haematology/Oncology
Paediatric undifferentiated sarcoma of the soft tissues. A clinicopathologic study. A Gupta, GR Somers, A5 Doria, M Ho, C Pereira, M Shago, PSThorner, M Zielenska

Sudqi M A Hamadah, Neonatology
The use of EEG, M RI, and multimodality evoked potentials (EPs) for outcome prediction in neonates with hypoxic ischaemic encephalopathy (HIE). SMA A Hamadah, K-S Lee, H W hyte, A Moore

Rakesh Han, Cardiology
Growth potential of left heart structures after neonatal intervention of aortic valve stenosis. R K Han, RC Gurofsky, WG Williams, JF Smallhorn, BW McCrindle

Michael Hawkes, Infectious Diseases
Clinical spectrum of juvenile onset recurrent respiratory papillomatosis. M Hawkes, P Campisi, R Zafar, X Punthakee, S Richardson, A Wadhwa, EL Ford-Jones

Linda T Hiraki, Core Paediatrics
Predictors of disease activity and disease damage in paediatric systemic lupus erythematosus. LT Hiraki, SM Benseler, PN Tyrrell, D Hebert, E Harvey, ED Silverman

Dajjit Hothi, Nephrology
Continuous renal replacement therapy (CRRT) in children using the AQUARIUS. DK Hothi, C St. George-Hyslop, D Geary, D Bohn, E Harvey

Mitham Husain, Immunology & Allergy
Immune functions of paediatric patients with lymphoma at diagnosis. M Husain, SWitzman, CM Roifman

Narveen Jandu, Gastroenterology
Verotoxin-producing Escherichia coli (VTEC) induced inhibition of interferon-Á-stimulated stat1-tyrosine phosphorylation is mediated by P13-kinase signaling and calcium levels. N Jandu, S Shen, M Wickham, R Prazapati, B Finlay, MA Karmali, PM Sherman

Cindy Jao-Tan, Paediatric Medicine
Twenty nail dystrophy: A retrospective paediatric study. C Jao-Tan, M Weinstein, E Pope, P Parkin, C Burke

Anita Jethwa, Developmental Paediatrics
The development and evaluation of the HAT-D: A discriminative tool differentiating types of hypertonia in children. A Jethwa, D Fehlings, C M acarthur

Alexandra Jevremovic, Cardiology
Outcome of infants with omphalocele and congenital heart disease. A Jevremovic, K Makikallio, JC Langer, W Tworetzky, B Mccrindle

Fotini Kavadas, Core Paediatrics

Adam Kirton, Neurology
Diffusion restriction in remote descending corticospinal tracts predicts motor outcome in neonatal arterial ischemic stroke. A Kirton, T Viswanathan, M Shroff, G deVeber

Patcharee Komwilaisak, Haematology/Oncology

Lucie Lafay-Cousin, Haematology/Oncology
Carboplatin hypersensitivity reaction in paediatric low grade glioma (LGG) patients. A national experience on behalf of the Canadian Paediatric Brain Tumour Consortium. L Lafay-Cousin, L Sung, J Huki, AS Carret, B Wilson, S Zelcer, D Strother, IO damede, M Silva, D Johnson, C M pofu, E Bouffet
Valerie Larouche, Haematology/Oncology

Joanne T. Lau, Haematology/Oncology
Characterization of the interaction between p73 and SATB2. J.T. Lau, L. Cheng, M. Huang, M.S. Irwin

Loretta Lau, Haematology/Oncology

Meihua Li, Haematology/Oncology

Lani Lieberman, Haematology/Oncology
Initial presentation of unscreened children with sickle cell disease: The Toronto experience. L. Lieberman, M. Kirby, L. Ozolins, J. Mosko, J. Friedman

Alvin Loh, Developmental Paediatrics
Motor stereotypies and posturing in children with autism spectrum disorder (ASD) and controls, at 12 and 18 months. A pilot videotape analysis from a sibling study. A. Loh, J. Brian, L. Zwaigenbaum, T. Soman, W. Roberts

Gustavo HB Maegawa, Clinical & Metabolic Genetics
Novel pharmacological chaperones for juvenile and late-onset GM2 gangliosidosis. G.H.B. Maegawa, M. Tropak, F. Kok, J.T.R. Clarke, D.J. Mahr

Naila Makhani, Neurorlogy
Life after VNS: Parents’ perspectives of quality of life in children with developmental delay and epilepsy after implantation of a vagal nerve stimulator. N. Makhani, I.M. Elliott, E.J. Donner

Ismail M. Mohamed, Neurorlogy

M. Ahendranath Moharir, Neurorlogy

Aleixo Muise, Gastroenterology
The role of protein tyrosine phosphatase sigma (PTPσ) in barrier defense mechanisms and inflammatory bowel disease. A. Muise, D.R. Otin

Prashanth M. Murthy, Neurorlogy

Alejandro Nava-Ocampo, Clinical Pharmacology
Valproic acid is a major human teratogen: Systematic review and meta-analysis. A.A. Nava-Ocampo, G. Koren, M.E. Moretti, R. Susman, J. Ulman

Maria Oliva, Emergency Medicine
Children presenting to Emergency Department for dental infections. M. Oliva, D. Kenny, S.R. Atanapal

Masaki Otsuki, Cardiology
Anomalous origin of a coronary artery with an interarterial course: Clinical profiles and management in the paediatric population. M. Otsuki, B.W. McCrindle, A. Dipchand

Ivan Pasic, Clinical & Metabolic Genetics
The human single-strand DNA binding protein RPA rapidly associates with DNA breaks in vivo. I. Pasic, M. S. Meyn

Lynnette Penney, Clinical & Metabolic Genetics
Renal dysplasia and aortic coarctation: A report of four unrelated cases. L.S. Penney, B. Lo, G. Taylor, S. Keating, R. Teitelbaum, D. Chitayat

Stacey Pollock-Barziv, Cardiology

Jonathan Ponesse, Developmental Paediatrics
Investigating the brainstem function link in comorbid Mobius Syndrome and Autistic Spectrum Disorder. J. Ponesse, W. Roberts

Bunchoo Pontanakul, Haematology/Oncology
Long-term follow-up of children with aplastic anaemia treated with immunosuppressive therapy. B. Pontanakul, P. Dasa, Y. Dror

Marianna Rachmiel, Endocrinology
Final height in children with idiopathic growth hormone deficiency (GH D) treated with a fixed dose of recombinant growth hormone (rGH). M. Rachmiel, V. Rota, E. Atenafu, D. Daneman, J. Hamilton

Rajesh Ramachandran Nair, Neurorlogy

Katja Reineker, Cardiology
Left ventricular inflow obstruction: The SickKids experience with Cor Triatriatum. K. Reineker, A. Dipchand, B.W. McCrindle, J. Coles, T. Humph

Jason D. Riff, Gastroenterology
Enterohemorrhagic Escherichia coli O157:H7 activates protein kinase C signalling through lipid rafts. J.D. Riff, G. Shen-Tu, P.M. Sherman
Heather Root, Clinical & Metabolic Genetics
Fanconi anemia proteins and BLM, the bloom syndrome DNA helicase, are involved in ALT telomere maintenance. H Root, DJ Stavropoulos, M S Meyn

Clodagh Ryan, Haematology/Oncology
Method of analysis (non or 2-compartment) may lead to different results in pharmacokinetic studies of rFIX (BeneFIX®) in children. C R yan, J Pazmino-Canzaires, AM Stain, F Pluthero, W Kahr, W Seto, M R and, D Lillicrap, S Bjorkman, V Blanchette, M Carcao

Ruth Schreiber, Nephrology
Day dwell volume influences ultrafiltration with Icodextrin in children on APD. R Schreiber, S Ackerman, D Geary, E Harvey

Erick Sell, Neurology
EEG and video-EEG in children with autism and staring spells. E Sell, I Mohamed, E Donner, A Ochi, H Otsubo

Niketa Shah, Haematology/Oncology

Grace Shen-Tu, Gastroenterology
Role of lipid rafts in the recruitment of signal transduction pathways leading to host cytoskeleton rearrangements during enterohemorrhagic Escherichia coli infection. G Shen-Tu, JD Riff, PM Sherman

Sandesh Shivananda, Neonatology
Is oxygen (O2) safe in the transport of neonates with clinically suspected congenital heart disease (CHD)? S Shivananda, K Muthulaly, H W hyte, PJ M Carcao

Davinder Singh-Grewal, Rheumatology

Adam C Smith, Clinical & Metabolic Genetics
Disruption of epigenetic regulatory elements and chromosomal alterations in patients with Beckwith-Wiedemann Syndrome. AC Smith, JA Squire, C Shuman, R Weksberg

Raz Somech, Immunology & Allergy
Track the TREGs – Diagnosing severe combined immunodeficiency. R Somech, E Grunebaum, CM Roifman

Andrea Stachon, Clinical & Metabolic Genetics
Molecular characterization of deletion breakpoints in adults with 22q11 deletion syndrome with and without schizophrenia. AC Stachon, M Meyn, E Chow, AS Bassett, R Weksberg

Brigitte Strahm, Haematology/Oncology
A potential role for bone marrow stroma in bone marrow metastasis of rhabdomyosarcoma. B Strahm, E Sexsmith, D Malkin

Uri Tabori, Haematology/Oncology
Genetic anticipation in age of cancer initiation is associated with shorter telomere length in Li-Fraumeni syndrome. U Tabori, S Nanda, J Lees, D Malkin

Shinichiro Takahashi, Clinical Pharmacology
Identification of a novel SLC22 transporter. STakahashi, S Matsuzaki, M Taniguchi, M Siu, M Tohyama, S Ito

Emily Tam, Nephrology

Lilian Teixeira, Neonatology
PDA ligation causes postoperative myocardium dysfunction in premature infants. LS Teixeira, PS Kiran, G Van Arsdell, A James, PJ M Carcao

Chanchai Traivaree, Haematology/Oncology
The value of CT imaging in hemophiliacs with suspected intracranial hemorrhage (ICH). C Traivaree, V Blanchette, G Flores, AM Stain, M Carcao

Dan Turner, Gastroenterology
Rectal bleeding following small bowel transplant? Anastomosis ulceration may be the cause. D Turner, S Martin, B-Y Ngan, D Grant, PM Sherman

Allison Tyrrell, Neonatology
Heat loss during stabilization and transport of premature infants with birth weight ≤ 1000 grams born at community hospitals. A Tyrrell, K-S Lee

Satoko Uematsu, Clinical Pharmacology
Osmotic environment controls expression of human cytochrome P450 3A (CYP3A) drug metabolizing enzymes. S Uematsu, K Kosuge, S Ito

Catherine M Walsh, Core Paediatrics
Residents’ preparedness in the CanMEDS 2000 competencies: A pilot study at the University of Toronto. CM Walsh, JH McLloyd, S Ginsburg

Aoife Waters, Neonatology
Atypical p-ANCA positivity in poststreptococcal glomerulonephritis. AM Waters

Ian R Watson, Haematology/Oncology
MDM2-mediated NEDD8 modification of TAp73 regulates its transactivation function. IR Watson, A Blanch, DCC Lin, M O’hh, MS Irwin

Eytan Wine, Gastroenterology
Campylobacter invasion of host epithelial cells. EWine, PM Sherman

Li Mei Zhou, Haematology/Oncology
Identifying effector genes involved in M yc mediated transformation of medulloblastoma. LM Zhou, D Picard, A Huang
Promoted to Professor of Paediatrics
Dr. Upton Allen
Dr. Brian Feldman
Dr. Colin Macarthur

Promoted to Associate Professor of Paediatrics
Dr. Brenda Banwell
Dr. Hartley Garfield
Dr. Ian Kitai
Dr. Berge Minassian
Dr. Rae Yeung

Retirees
The following retired from The Hospital for Sick Children in June of 2006:
Dr. Joe Clarke
Dr. Stanley Read

25 Years of Service Awards
The following were honoured for their 25 years of service to The Hospital for Sick Children in June of 2006:
Dr. Peter Durie
Dr. Eudice Goldberg
Dr. Stuart Gordner
Dr. Sasson Lavi
Dr. Cinda Lee
Dr. Marcellina Mian
Dr. Kusiel Perlman
Dr. Stanley Read
Dr. Stan Zlotkin
With thanks to Dodge Bernal, Lesia Olexandra, Mark Sawyer and Rob Teteruk for their vision and creativity.