Department of Surgery Annual Report
July 1, 2005 - June 30, 2006

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    Dr. R. K. Reznick

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    Dr. J.A. Bohnen - Vice-Chair, Education
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    Dr. R. Richards - Sunnybrook & Women’s College Health Sciences Centre
    Dr. L. Tate - Toronto East General Hospital
    Dr. B.R. Taylor - University Health Network

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    Dr. R. Weisel - Cardiac Surgery
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    Dr. J. Waddell - A.J. Latner Professor and Chair of Orthopaedic Surgery
    Dr. P. Neligan - Wharton Chair in Reconstructive Plastic Surgery
    Dr. S. Keshavjee - Thoracic Surgery
    Dr. S. Herschorn - Urology
    Dr. T. Lindsay - Vascular Surgery
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It has now been four years that I have had the privilege of serving as Chair of this department. It has been a mixture of a marathon and a scrum. For the most part this job has been filled with enormous highs. Despite the hard work, I feel more energized than ever before and have a feeling of indebtedness for having been given the opportunity to lead this department. In doing this, I have had the distinct benefit of accepting the collective wisdom of a broad array of talented and committed surgeons. I am extremely grateful to our department’s leaderships, our division chairs, our surgeons-in-chiefs, our education directors, and many others who have taken on leadership roles in this department.

We have tried to live up to our commitment to changing our surgical workplace. I’m pleased that two new programs that focus on improving the quality of this workplace are up and running. The first offers day care to any of our faculty, and the second offers a benefits package to our new recruits who would otherwise not be eligible through university or hospital arrangements.

This past year saw the introduction of the clinical faculty policy. We have worked extremely hard to ensure that all thirty-one of our divisions have viable functioning practice plans. I’m pleased to report that, after multiple summits, many meetings and a lot of hard work by many people, we have all thirty-one of our divisions engaged in practice plans. This is an achievement that we all can be proud of.

We have a faculty that is very rich in talent. One of the manifestations of that talent is rising through the academic ranks. Promotion in our faculty is difficult to achieve, a reflection of the high standards we have at the University of Toronto. This past year Christopher Forrest, Keith Jarvi, Michael Johnston, David Rowed, and John Semple were promoted to the rank of full professor. Michael Borger, Mitch Brown, Walid Farhat, Robert Maggisano, and John Phillips were promoted to the rank of associate professor. Anne Agur was promoted to Associate Professor with tenure. Chris Compeau, Mary Keith, and Kirk Lo were promoted to the rank of assistant professor. All of these surgeons and scientists should be justifiably proud of this accomplishment.

It is often said that the only real effect leaders have is the hiring of new individuals. In this regard our department has a lot to be proud of this past year. We have recruited five women and ten men to our department. We welcome to our faculty Erin Kennedy, Allan Okrainec, George Oreopolous, Anna Gagliardi, Armando Lorenzo, Khalid Sayed, Nancy Baxter, Andrew Mathew, Melinda Musgrave, May Lynn Quan, Homer Tien, Henry Ahn, Danny Whelan, Alex Zlotta, and Avery Nathens.

This past year we lost a respected colleague, Dr. W. R. Harris. Dr. Harris was an orthopaedic surgeon at Toronto General Hospital and Chief of that service from 1976 – 1986. He made many outstanding contributions throughout his academic career culminating with his election as President of the Canadian Orthopaedic Association in 1976.

This department has become involved in two very important issues in the last year. The first is the sustainability of academic excellence in the arena of cardiac surgery. There are many pressures that face this discipline including diminishing clinical volumes, the advent of drug eluting stents, and the establishment of three peripheral cardiac surgical sites. These and other factors threaten our ability to carry on with our magnificent track record of discovery, our abilities to recruit top talent, and our desire to train the very best for the future. The department, along with our entire cardiac surgical community, is poised to table a plan with the new Toronto academic local heath integration network. This plan will call for greater academic and clinical integration.

Another area of intense activity has been the preparation of a surgical plan for the New Women’s College Hospital. This plan calls for a dramatic upgrading of the surgical resources at Women’s as it moves to establish itself as a state of the art surgical ambulatory care centre. We are hopeful that this plan will take hold and enrich our surgical community with a much-needed resource. We are also grateful to John Semple who takes on the new job as surgeon-in-chief of that hospital.

The merger and de-merger of Sunnybrook and Women’s should give us reason to pause and reflect. The province established the Health Services Restructuring Commission (HSRC) in 1996. The HRSC, which initiated the changes that resulted in the merger, consisted in the group of well-intentioned and knowledgeable individuals. The HSRC was mindful of many redundancies in our system and faced with finding solutions to tough fiscal realities. There were many competing political agendas and compromises that had been made. It was given sweeping powers to re-arrange Ontario’s hospital systems. In March 1997, it released its plan for Toronto calling for the closing of eleven of forty-two hospitals in this city and the amalgamation of others. A total of $123,000,000 of savings per year was projected. Three years later the HSRC was disbanded and health care professionals were left to make sense of a new reality.

One of the major recommendations was the creation of Sunnybrook and Women’s Health Science Centre, amalgamation of Sunnybrook, Orthopedic and Arthritic Hospital, and Women’s College Hospital. While this may have looked good on paper, and indeed some good has happened, it is now evident to all that the merger by all dimensions has not achieved its goals. Recently the separation of Women’s College Hospital has been announced and the New Women’s College Hospital has been formally established.

Richard K. Reznick - R.S. McLaughlin Professor and Chair

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There are many reasons for failed mergers. They include; inappropriate estimates of financial savings, turmoil in the ranks of management, lack of appropriate communications strategies, and lack of clear governance structures. And there are other negative by-products of turbulent mergers; lack of easy access to certain services, insecurity of human resources, loss of managerial and organizational identity, and disruption of routines at the clinical and organizational levels. However, I would propose that a fundamental flaw of this merger was a miscalculation or, more pointedly, a disregard for the social and political costs of trying to merge two cultures. It has been said that corporate culture is like an interwoven organic system of beliefs, values, rituals, personalities and mythology that creates meaning for people at work. How many thousands of hours were wasted in endless committee meetings trying to combine the immiscible? How many fights, both public and private, were fought in the name of progress? How much great talent was lost in Toronto as individuals, who have better ways to spend their time, decided to leave rather than get embroiled in a battle that they perceived to be endless. And how much money was spent on the unpredictable and intangible costs of shuffling the deck in the name of progress?

This past year saw an important initiative on the educational front. We have a huge and vibrant fellowship program. Across our eight clinical divisions we have over two hundred fellows. We are proud that these fellows come from over forty countries to train with our faculty. This program enriches us all and helps define our department. Over the last year David Latter led a task force to look at department-wide policies for the oversight of the fellowship program. David’s task force tabled a series of principles, which he will operationalize as inaugural director of the new office of fellowship affairs. These principles include: creating goals and objectives for each fellow, developing explicit letters of offer, enunciating work conditions for fellows, developing an evaluation system for fellows, monitoring of fellow-resident issues, and monitoring of fellowship growth.

In this past year we celebrated the successes of leaders who have stepped down from their positions and welcomed their replacements. In particular, we congratulate Jim Waddell for ten years of spectacular success in the division of orthopaedic surgery and welcome Ben Alman as the new chair of that division. We also celebrate the remarkable success of Peter Neligan in his two terms as chair of the division of plastic surgery, and welcome his successor Dimitri Anastakis. Zane Cohen has been surgeon-in-chief at Mount Sinai Hospital for sixteen years. He has transformed that hospital in so many ways. Zane carries on in his leadership role as the chair of the division of general surgery, and we welcome Jay Wunder as the new surgeon-in-chief at Mount Sinai Hospital. Finally, Sender Herschorn has led the department’s continuing medical education initiatives for a decade. We welcome Joao Pippi Salle who is starting as the new director of CME in our department. We also congratulate Bill Kraemer as the new program director in the division of orthopaedic surgery, Jim Waddell on his new appointment as the director of the Holland Centre, and Eric Massicotte for becoming head of the undergraduate education committee in the division of neurosurgery.

Our research mission continues to flourish. Under Vice-Chair Ben Alman’s leadership we have reached an incredible amount of external funding, this year’s total being in excess of $40,000,000. Our surgical scientist program continues to thrive. We have twenty-seven residents in the surgical scientist program, 92% of which receive external salary support.

This year we expanded the program to broaden our concept of scholarship. We have started the Scholarship in Surgery Program and there are three residents who are currently enrolled pursuing their MBA degrees.

We continue to work hard in the area of advancement. This year we will see the instillation of Sender Hershorn as the Barkin Chair, Hans Kreder was installed as the Tile Chair, and the orthopedic faculty established the Waddell fund. George Hiraki initiated a fellowship in honour of his parents. The surgical alumni pledged $250,000 to the graduate student education fund. University Health Network donated $1,000,000 to the University of Toronto from the Dunn fund in colorectal oncology, an amount that was doubled through the Ontario Student Opportunities Trust Fund. Finally, a generous donation was made from the Sunnybrook Foundation as part of the magnificent gift from the Mr. Holland. Six hundred thousand dollars of the $20,000,000 Holland gift will be donated to the University of Toronto in support of orthopaedic training through the graduate student education fund.

Individuals in this department have received many honours in this past year, too many to name all of them. However, six stand out and deserve special mention in this report. The first two are in honour of Dr. Robert Salter and Dr. Wilfred (Bill) Bigelow. Both Drs. Salter and Bigelow were recently honoured by the University of Toronto as two of ten giants in biomedical research in the history of this great institution. Tirone David was named a University Professor, the highest honour an individual can be given in our university. John Wedge was made an Officer of the Order of Canada. Allan Gross was made an Officer of the Order of Ontario. Sandro Rizoli won the Royal College medal in surgery.

Under John Bohnen’s leadership we continue to flourish in the education arena. This past year we hosted as a visiting scholar, Dr. Milliard Debrew, a paediatric surgeon from Addis Ababa. As a result of his visit a team of staff from our department will be helping the medical school in Addis establish a skills lab. Our own skills lab, under Helen MacRae’s leadership has recently expanded by doubling its size. David Backstein has successfully implemented a new curriculum for our clinical clerks. This included David’s “crash course in surgery”, five days of a centralized curriculum including seminars and integrated skills sessions.

In summary, it has been an outstanding year for our department. It has certainly been gratifying to see our strategic plan grow into action as we attempt to break the boundaries. We have an absolutely wonderful faculty. I’m indebted to all of them for the incredible support I have received as Chair.
The 2005-06 academic year in Surgical Undergraduate Education was one of significant curricular modification instituted by our Department. It was also a year which saw the initiation of major changes at the University of Toronto’s, Faculty of Medicine, which will certainly provide opportunities as well as challenges to the Department of Surgery in the months to come.

A major curricular overhaul of our surgical clerkship commenced this year. In the fall of 2005 we implemented the “Crash Course in Surgery” for Phase I students at the Surgical Skills Centre at Mount Sinai Hospital and the Patient Simulation Centre at St. Michael’s Hospital. This five-day course provides a foundation of knowledge and skills, upon which our students can build when they are in the ER, the OR and out on the wards. Student feedback so far has been excellent. The early exposure to fundamental technical skills has been much appreciated by our undergraduates and there is early evidence that this new training has translated into improved confidence and performance during the remainder of the rotation. The teaching contributions of the surgical faculty is greatly appreciated and there is no doubt that this program could not run without their dedication. In particular, Dr. Jameel Ali must be recognized for his contributions to the trauma component of the week and the enormous administrative contribution of Carmela Calorendi must be highlighted.

Dr. John Murnaghan successfully ran the annual Residents as Teachers Day in July 2005, and the initiative was expanded by adding a second session in February 2006. These two days were focused on optimizing undergraduate teaching by our junior and intermediate level surgical trainees.

Our surgical education administrative staff was pivotal in many of the changes implemented this year. Our thanks go to Michelle Dominey (SMH), Liz Doherty (UHN) and Esther Williams (Sunnybrook) for their efforts.

Congratulations were extended at Gallie Day this year to Dr. Robin Richards (Division of Orthopaedic Surgery), as he was awarded the E. Bruce Tovee Award for excellence in undergraduate teaching. Dr. Sundeep Rai, (General Surgery resident) won the D.R. Wilson award for outstanding teaching by a resident.

On the horizon there are several challenges and opportunities for surgical undergraduate education. Curricular renewal for Phase I and II Clerkship is under consideration by the Faculty of Medicine and the planning for expansion to a Mississauga campus, is well underway. Our Department is committed to taking a leadership role in these endeavours, in order to maintain our position in undergraduate education for years to come.
The Department of Surgery postgraduate enterprise had an outstanding year in 2005-2006, rich with accomplishments and change.

Our entry-level programs filled all of our first year positions in July 2005 through the Canadian resident match. In all, 254 residents trained in all of our 11 Royal College of Physicians and Surgeons (RCPSC) programs (Cardiac Surgery, General Surgery, Neurosurgery, Orthopaedic Surgery, Plastic Surgery, Thoracic Surgery, Urology and Vascular Surgery residencies; and Colorectal Surgery, Paediatric General Surgery and Surgical Oncology residency/fellowship programs.) In addition to those residency positions, 196 clinical fellows and 32 elective residents came from many countries to seek further clinical training. Thirty residents received research training within the Surgeon-Scientist Program, led by Dr. Ben Alman, Vice-Chair, Research.

Residents finishing Core Surgery (years one and two) and final-year residents were highly successful in RCPSC Principles of Surgery and fellowship exams, respectively. Thirty of thirty-two residents passed their fellowships.

Residents took in a broad variety of educational events that complement patient care. Each divisional program put on education sessions at the hospitals and, centrally, taught half-day per week, seminars and skills. At the department level, Core Surgery residents attended a number of educational series that build practice foundations. Dr. Bob Mustard runs the highly-rated Principles of Surgery (POS) Lectures and provides a practice POS exam from the lectures and literature. Twice yearly, Core Surgery residents attend the Resident Forum to give feedback on their education and work conditions. In July, Core Surgery residents attended the annual half-day program “The Surgeon in Society;” this year’s theme was “professionalism”. On the same day, first year residents got “oriented” with their teachers over food and drink. Several residents volunteered, to promote their specialties at “Career Night” for medical students interested in Surgery. First and third year residents attended “Residents as Teachers” workshops led by Drs. John Murnaghan and Nicole Woods, supporting their missions to provide patient care, learn the craft and train other learners effectively. Dr. Jameel Ali led the department’s Advanced Trauma Life Support courses for Core Surgery residents.

This year, at Gallie Day, Jay Wunder was presented the E. Bruce Tovee Award for outstanding teaching in postgraduate education and Thomas Lindsay was presented the Surgical Skills Centre Distinguished Education Award.
Over the years, research from Toronto surgeons has had a major impact on science and medicine, world-wide. This year, the University of Toronto unveiled statues of ten leading biomedical researchers or builders who got their start or made their mark at the University, in the main lobby of the Terrence Donnelly Centre for Cellular and Biomolecular Research. Three of the ten were surgeons: Robert Salter, innovator in orthopaedic surgery; Wilfred Bigelow, innovator in cardiac surgery; and Frederick Banting, Nobel laureate and discoverer of insulin. This is an amazing accomplishment, and illustrates the importance and reach of our department’s research work.

Our current faculty is following in this tradition, undertaking ground-breaking research in areas such as the neurosciences, cardiac surgery, transplantation, stem-cell research, cancer, education research, and clinical outcomes research. Our faculty continues to draw on the strengths of the University and the ability to develop collaborative programs, to generate high quality, in-depth fundamental research, and develop this knowledge into improved clinical care. The Department continues to work on its goal of building infrastructure to increase the depth and breadth of our academic activities, with the ultimate aim of translating fundamental research into improved outcomes for our patients.

Many advances in medicine come from the application of knowledge from areas initially unrelated to medicine. Because advances in medicine may come in a variety of forms from a variety of areas, it is important that we take advantage of the broad range of academic endeavors that could strengthen our department and surgery in general. The Scholarship in Surgery (SIS) program was initiated this year to provide graduate level training in non-traditional streams. The first three residents have entered this program and these individuals will undoubtedly bring new areas of scholarship to our specialty.

Despite the increased competitiveness of research funding, especially at the Canadian Institutes for Health Research, the department continues to have fantastic research funding, with our total research funding exceeding $40,000,000. Our faculty continues to be recognized for research not only locally and nationally, but internationally as well. This was confirmed in our peer-reviewed publications.

Surgeon-Scientist Program (SSP) residents had an unparalleled year. Over 90% of our SSPs were successful in receiving full or partial salary support from external granting agencies. Five new residents entered the SSP, giving the Program 15 MSc, 1 MEd, 10 PhD and one PDF resident involved in full-time research. The Johnson & Johnson Medical Products Surgeon-Scientist Fellowship Program’s sixth year of commitment allowed us to support four SSPs. They are: Ivan Diamond (supervisors: Paul Wales & Brian Feldman), Anand Govindarajan (supervisor: Calvin Law), Mandeep Tamber (supervisors: John McLaughlin & James Rutka), and Gilbert Tang (supervisor: Richard Weisel.)

The theme for the 32nd Gallie Day was nanotechnology in surgery. In the coming decades, new technologies will likely change the way we practice surgery. Miniaturized manufacturing, small particles to enhance imaging, and smaller biologic devices to treat diseases are all possibilities. This year’s Gallie Day focused on these new advances. In a departure from previous years, the participants in the symposium entitled: Size Matters: Nanotechnology in Surgery, were primarily from the engineering department. Ted Sargent, Warren Chan, and Paul Chow each spoke on different aspects of nanotechnology, including miniaturized manufacturing, novel imaging techniques and a process to enhance commercialization of new high technology devices. Abdallah Daar, from our department, spoke on the promise of nanotechnology in the third world, pointing out that multiple ways in which miniaturized devices and low cost miniaturized manufacturing, have tremendous potential to improve the quality of life in less-developed countries. The theme was continued by Michael Apuzzo, University of California Los Angeles, the Gordon Murray Lecturer, who presented a multi-media presentation on the potential of nanotechnology in surgery, using current ongoing patient based research as illustrations. He presented intriguing clinical research on topics such as the development of novel nanotechnology based imaging techniques, to localize brain tumors and small devices to target neoplastic cells. The symposium and Dr. Apuzzo’s lecture provided a fascinating glimpse into what is possible for surgery, in the near future.

The Gallie-Bateman Prize was presented to Bradley Jacobs; and Alexandra Mihailovic and Danny Ramzy received a tie for second place. The McMurrich Award for best bench science work went to Karim Mukhida (I. Mendez, Dalhousie), and there was a tie for second place, with awards going to Deepak Kamnasaran (A. Guha), Yan Chen (B. Alman), Christopher Kim (T. Yau), Ann Parr (C. Tator), and Danny Ramzy (V. Rao.) There was a tie for first place for the Wyeth Award for best non-bench research between Cornelia M. Borkhoff (J. Wright) and Carol-Anne Moulton (R. Reznick.) The second place award went to Timothy Cheang (CHL Law) and Veena Guru (S. Frenses.)

Benjamin Alman - Vice Chair, Research
Faculty accomplishments in the past year were astonishing. There were too many awards and honors to list all of them, and most of the awards are listed in the activities of the individual hospitals and divisions. Some of the highlights from the past year include: Robert Nam, who received the Langer Surgeon Scientist Award (given to the most outstanding graduate of the Surgeon-Scientist Program), for his work in urologic oncology; David Urbach, who received the George-Armstrong Peters Prize (awarded to a young investigator), for his work in clinical outcomes and minimally invasive surgery; Jim Rutka, who received the Tator Surgeon Scientist Mentoring Award; and Ben Alman, who received the Lister Award (awarded to a senior investigator), for his work in developmental biology in orthopaedics.

Departmental members received a large number of grants this year, but of note, 18% (nine out of 49) of the Heart and Stroke Foundation grants awarded this year went to our faculty members. This is an incredible accomplishment and illustrates the prominence of our research on the National scene.

The Departmental Research Committee continued its strong work on expanding the breadth of research activities in the Department, establishing links to emerging research areas, improving the links with the non-clinician scientists in the Department, developing standardized evaluations for faculty, and reorganizing Gallie Day and research educational activities. The non-clinician scientists continue to be highlighted in the monthly Department of Surgery Newsletter.

Finally, I want to give special thanks to Val Cabral for her co-ordination of all aspects of the Departmental research activities.

Research plays a prominent role in our department and we have made fantastic accomplishments, which are improving patient care. Our current faculty members will likely follow in the footsteps of the three surgeons recognized by the University as leading biomedical researchers, and will make major advances in medical research.
The Division of Cardiac Surgery received recognition for impressive clinical outcomes for cardiac surgical procedures as well as outstanding academic achievement. In addition, the Division instituted a new program for Clinical Fellows.

Clinical

This year the report from the Cardiac Care Network of Ontario indicated that the three adult cardiac surgical units provided outstanding clinical outcomes, which after adjustment for case complexity, equaled or exceeded the results from most other units in North America. Congratulations to the Surgeons and their dedicated teams of care providers. The waiting lists have stabilized and the number of cases performed in each of the units has remained constant. The Division and the Department of Surgery have approached the Toronto Central LHIN to explore a new funding arrangement for Cardiac Surgery at the University.

Cardiac Surgical Residency

The Residency Program under the direction of Dr. David Latter continues to provide individualized training of the highest caliber for the residents. Each of the residents has completed not only the Royal College program, but also the Clinical Investigator Program at the University. The residents have been cognizant of the decreased availability of staff positions in the United States and they have attempted to acquire new skills and new surgical capabilities. Dr. Shafie Fazel spent six months at Stanford University learning transvenous as well as surgical approaches to diseases of the thoracic aorta. Dr. Mark Peterson has joined the Arizona Heart Institute to learn transvenous approaches to aortic diseases. The residents and staff participated in the Coach House series of seminars and the visiting professor activities of the Division.

Clinical Fellows Program

Dr. David Latter was appointed the Departmental Co-ordinator of Fellowship Affairs. In the Division, each institution has a large and successful Clinical Fellows Program which will be enhanced with the new Departmental initiative. The program will provide on line evaluations and feedback to fellows and their mentors. The new guidelines will provide greater transparency to the selection process and the requirements for the position.

Academic Achievements

Each of the institutions made outstanding contributions and achieved academic excellence in the last year. The Division continues to support exceptional basic research, clinical epidemiology and unique clinical programs. Drs. Desai, Fazel and Fedak were finalists for the Lillehei Young Investigator Awards at the American Association of Thoracic Surgeons, and Dr. Fazel was a finalist for the Vivien Thomas Young Investigator Award at the American Heart Association meeting in Dallas, Texas.

Sunnybrook and Women’s Health Sciences Centre

The Cardiovascular Surgical Division focused on clinical trials. The results of the radial artery trial were published in the New England Journal of Medicine with Dr. Nimesh Desai as the first author and Dr. Stephen Fremes as the senior author. Dr. Fremes was the principal investigator for an NIH clinical trials application, from the University of Toronto.

St. Michael’s Hospital

Dr. Lee Errett and his colleagues provided outstanding clinical outcomes for complex cardiac surgical procedures. Dr. Yves LeClerc recently left St. Michael’s Hospital and Dr. Subodh Verma has been recruited as a new staff surgeon. Dr. Mary Keith received grant funding to evaluate nutritional preconditioning to improve outcomes. All Canadian cardiac surgical residents, attended the Terrence Donnelly Residents Research Day this spring, sponsored by St. Michael’s Hospital.

Toronto General Hospital

Dr. Tirone David continued his innovations in valvular heart surgery. Dr. Michael Borger left the institution to assume a staff position in Leipzig, Germany. Dr. Viv Rao continued as the principle investigator of the NIH-funded STICH trial evaluating ventricular remodeling surgery. Dr. Rao and Dr. Heather Ross continued to provide a unique service with the left ventricular assist and cardiac transplant programs. Dr. Rao also received funding for laboratory and clinical investigations of organ protection to prevent transplant arteriopathy. Dr. Terry Yau received funding to continue his investigations into gene and cell therapy, to induce angiogenesis. Dr. Ren-Ke Li was awarded a Canada Research Chair in Cardiac Regeneration.
The Hospital for Sick Children

Dr. Glen Van Arsdell and his colleagues continue to be world leaders in surgery for congenital heart disease in neonates. Their outcomes reflect the dedication of the surgeons to the care of these critically-ill newborn babies. The cardiac surgeons at Hospital for Sick Children have established extensive and clinically relevant laboratory investigations. Dr. William Williams retired, but he will continue to participate in the Congenital Cardiac Surgery Database and to supervise Fellows using the database for academic endeavors.

Summary

The Division of Cardiac Surgery continues to be one of the leading academic and innovative centres in the world. The focus of the Division is to provide outstanding outcomes and to excel at academic productivity.
Resident Training

This past year, resident issues have once again been a central part of this job, as well as a continuing challenge. In the past we have had a number of issues related to resident attrition from the General Surgery Program. I am both happy and proud to mention that we have had no resident attrition this past year. This represents a great success and reflects well on our residents and on our program. In fact, we have had four residents express an interest in transferring into our General Surgery Program. For this upcoming academic year July 2006-June 2007, 11 PGY residents have entered our program, as well as an additional three IMG residents. We have been very successful for the second year in a row, in obtaining very top quality residents into our program. We were able to fill all of our positions with our top 18 choices in the CARMS match.

The following general surgical residents were successful in completing the General Surgical Training Program for 2005-2006. They are; Jonathan Caulfeld, Jeannie Choi, Anand Ghanekar, Quoc Huynh, Marianna Kapala, Kouros Moozar, Laura Musselman, and Ajay Sahajpal.

Congratulations go out to our graduating class!

New Faculty

There has been a great deal of recruitment for 2006-2007. These new faculty members include; Homer Tien to Sunnybrook Hospital, Nancy Baxter to St. Michael’s Hospital, Avery Nathens to St. Michael’s Hospital in August of 2006, Erin Kennedy to Toronto General Hospital in July 2006, Carol Ann Moulton to Toronto General Hospital in July 2006, Allan Okrainec to the Toronto Western Hospital, and Jamie Cyriac to Toronto East General Hospital in July 2006.

Research Funding

Research funding has continued to increase year after year. In the academic year, 2005-2006, research funding totalled over 8 million dollars. Once again, there is even a slight increase from the record 8.35 million dollars of the last academic year.

Faculty and Resident Grants

The following individuals received fellowship/grants during this academic year:

Najma Ahmed, Nancy Baxter, John Bohnen, Mark Cattral, Alexandra Mihailovic, Annie Fecteau, Steve Gallinger, Lynn Mikula (supervised by Steve Gallinger), George Zogopoulos (supervised by Steve Gallinger), Reg Gorczynski, Rob Gryfe, David Grant, Claire Holloway, E. Rakovitch (supervised by Claire Holloway), Andras Kapus, Peter Kim, Jarley Koo, Calvin Law, Timothy Chang (supervised by Calvin Law), Michael Ko (supervised by Carol Swallow), David Urbach, Steve Lopushinsky (supervised by David Urbach), Frances Wright, Gergely Lukacs, Andrea McCart, John Marshall, Glen Regehr, Ori Rotstein, Patrick Tawadros (supervised by Ori Rotstein), and Katalin Saszi (supervised by Ori Rotstein.)

These individuals received grants from various peer-reviewed granting agencies, including: the Dean’s Excellence Fund, Lance Armstrong Foundation, CIHR, PSI, the Genesis Foundation, NCIC, GENOME Canada, Ontario Cancer Research Network, NCI, NIH, Society of University Surgeons, Public Works and Government Services of Canada, Hospital for Sick Children Foundation, Ontario Clinical Oncology Group, Breast Cancer Alliance, NSERC, MOHLTC, Canadian Breast Cancer Foundation, McLaughlin Centre for Molecular Biology, and Surgical Infection Society. This represents an outstanding variety of peer-reviewed grants for over 50% of our General Surgical faculty and our surgical scientists.

In addition, there were numerous awards received by our faculty and residents. To name a few: Calvin Law received a Career Scientist Award; David Urbach received a Career Scientist Award from MOHLTC, as well as the Eugene Stewart Award for Excellence in Teaching from HPME. David also received the 2006 George Armstrong Peters Prize; Sundeep Rai received the 2006 D.R. Wilson Award for Excellence in Teaching by a Resident; Alexandra Mihailovic won 2nd Prize in the Gallie Bateman Competition; Danny Ramzy won 2nd Prize, McMurrich Award; and Carol-Anne Moulton won the 1st Prize Wyeth Award, and Timothy Chang who was co-winner of the 1st Prize for the Wyeth Award for a Poster Presentation in the Epidemiology/Education section.
Lorne Rotstein won the Wightman Berris Academy–John Bradley Anderson Award for Administration; Peter Kim, the 2006 Mackenzie-Scotiabank Prize; Ian McGilvray and Allan Bruce Robertson, the Junior Investigator Award for the IMS Scientific Day; Ahmed Nasser (supervised by Jack Langer) won the 2nd Prize HSC Research Award; Richard Reznick won the 2006 President’s Inaugural Teaching Award – U of T; Sandro Rizoli, the 2006 RCPSC Medal in Surgery; Ori Rotstein, Renewal as Director IMS; Angel Arnaout (supervised by Claire Holloway), the Novartis Oncology Young Investigator Award; Simon Birch (supervised by Ori Rotstein) won 1st Prize in the Basic Science, Alan Wu Poster Competition at the IMS Scientific Award Day 2006; John Bohnen, the 2006 Canadian Association of Medical Education - Certificate of Merit for U of T and the 2006 Lois H. Ross Resident Advocate Award from PAIRO; Fred Brenneman won an Award for Continuing Education and Training from the Peters–Boyd Academy; and David Grant was named the Incoming President – International Intestine Transplant Society.

This indeed is a very impressive list of awards and prizes in recognition of our faculty.

**Events**

Our 45th Annual Update Course for General Surgeons and Residents was held from April 20-27th, 2006. Again, there was a record turn out of over 450 registrants. The guest lecturer was Dr. David Linehan from Washington University in St. Louis, and approximately 88% of our General Surgical faculty presented at that major CME event. The General Surgical staff at the University of Toronto was highly evaluated during the entire update meeting. Our update course was simulcast to the Tec de Monterrey, in Monterrey, Mexico, via an internet platform and a simulcast was seen around the world both live and archived.

Once again, the Update in General Surgical Oncology was held in the fall of 2005 at the Granite Club. There were over 100 registrants. The course was very highly evaluated and will continue at that sight in the fall of 2006.

In addition this year, Jaime Escallon was involved in organizing a review course for residents from around Canada. This was done in the early part of April, 2006 and was attended by General Surgery residents from all over Canada. It was done in conjunction with McMaster University, and it is planned again for early spring of 2007.

The major academic event for the General Surgeons was, once again, our Annual Assembly of General Surgeons and Residents. This took place on June 8, 2006. The E.B. Tovee Lecturer on that day was Dr. Monica Bertagnolli from Harvard. During the Annual Assembly Dr. Cohen mentioned four initiatives which are to come out of the Bernard and Ryna Langer Chair Fund for 2006-2007, namely: four $15,000 research grants that will be distributed as start-up funds for innovative research; $30,000 for faculty development; three $1000 teaching awards to recognize outstanding resident teachers over a two-year period of time; and funding for residents’ presentations at scientific meetings to help the individual division and supervisors who are taking this burden on at the present time.

Awards were also distributed at the Annual Assembly. The award for best podium presentation went to George Zogopoulos while the best poster awards went to Jensen Tan and Stev Lopushinsky.

The General Surgical Division at the University of Toronto is outstanding in breadth and depth. In the coming year, a most important responsibility will be the accreditation process across the University of Toronto. The General Surgical Division, in addition to the General Surgery Residency Training Program, is responsible for programs in Colorectal Surgery, Surgical Oncology, and Paediatric Surgery. All of the latter three programs will be assessed by the accreditation process in April 2007.

Passing with full accreditation for all of our programs is essential. We will certainly focus on the process for accreditation for this upcoming academic year. In order to help us identify and help solve some of the outstanding issues, the Division of General Surgery at the University of Toronto will hold a retreat at the Vaughan Estates on Friday, September 29, 2006. It is hoped that there will be full and open discussion of outstanding issues at that time, and a timeline set for the correction of any deficiencies. Certainly, one of the main issues to be addressed is the canMEDS Competencies as the Royal College Accreditors will have expected some progress in this area by then.
Resident Achievements

Royal College Examinations

Resident Research Awards (International/National):
Several residents received externally funded fellowships and awards during the year:
Ratan Bhardwaj has been granted post-doctoral research fellowship awards from CIHR and the Heart and Stroke Foundation.
Greg Hawryluk received an AO Trauma grant; is the recipient of this year’s Codman Fellowship in Neurotrauma and Critical Care; received full approval for funding of a McLaughlin Centre for Molecular Medicine Scientist training fellowship.
Brad Jacobs won the Canadian Society for Clinical Investigation Resident Research Award; won this year’s K.G. McKenzie Memorial Prize for Basic Neuroscience Research; has been awarded the 2006 Canadian Research Award for Specialty residents; received a BrainStar Award from the CIHR/Institute of Neuroscience, Mental Health and Addiction.
Adrian Laxton was awarded the 2006 NREF/Medtronic Research Fellowship from the AANS.
Cian O’Kelly received an AO Trauma grant.
Ann Parr received a CIHR Research Fellowship for her research work.
Mandeep Tamber received a Surgeon Scientist Program Fellowship, J&J Products Company.
Sarah Woodrow received a Medical Education Grant awarded by the Royal College of Physicians and Surgeons; received a CSCI award for a poster presentation at the RCPSC meeting; won this year’s K.G. McKenzie Memorial Prize for the best Clinical Neuroscience paper.
Gelareh Zadeh was awarded a fellowship salary from Cancer Care Ontario; was awarded the 2006 PAIRO Trust Fund Resident Teaching Award.

Resident Research Awards (University of Toronto)
Frank Farhadi was awarded a Joseph M. West Family Memorial Award.
Gregory Hawryluk was awarded a Joseph M. West Family Memorial Award.
Bradley Jacobs won the Joseph M. Family West Memorial Fund Award from Postgraduate Medicine, U. of T.; was the recipient of the first place award for the Gallie-Bateman prize for surgical research.
Paul Kongkham received the 2005-2006 Dr. Thomas Friedlich Fellowship Award in Neuro-oncology Research.
Adrian Laxton received the 2006 Warren Ho Memorial Scholarship; was awarded a Joseph M. West Family Memorial Award and the William Fenwick Fellowship.
Todd Mainprize was awarded a U. of T. Fellowship through the Department of Laboratory Medicine and Pathobiology.
Charles Matouk was awarded a McLaughlin Centre for Molecular Medicine Medical Scientist Training Fellowship; was awarded a Joseph M. West Family Memorial Fund/Postgraduate Medicine Award.
Karim Mukhida won McMurrich Frist Prize Award for the best poster presentation, Gallie Day.
Cian O’Kelly won the 1st place Horsey Prize.
Ann Parr received the McMurrich 2nd prize award for her poster presentation at Gallie Day; was awarded a Joseph M. West Family Memorial Fund and the Mirian Neveran Memorial Award.
Nicolas Phan was the recipient of the 2006 Alan Hudson Teaching Award.
Demitre Serletis was awarded a Joseph M. West Family Memorial Award.
Scellig Stone was awarded a Joseph M. West Family Memorial Award and the William Cron & Jean Harris Memorial.
Mandeep Tamber won 2nd place for the Horsey Award.
Faculty Achievements

Honours and Awards

**Mark Bernstein** received a CIHR grant (2005-2009.)

**Karen Davis** was awarded a renewal of her Tier II Canada Research Chair in Brain and Behaviour; has been elected to the School of Graduate Studies Education Council

**Peter Dirks** was awarded 1 of 3 grants from the Pediatric Brain Tumor Foundation (PBTF) of the United States; has become a member of the American Society of Pediatric Neurosurgeons; received a 3 year NCIC grant award.

**Jim Drake** was elected a Member of the American Academy of Neurological Surgery.

**Michael Fehlings** received a Proof of Principle award, Ontario Neurotrauma Foundation; received an AO Foundation grant; received a Cervical Spine Research Society Award; has been appointed as Chair-Elect for the Section on Neurotrauma and Critical Care of the American Association of Neurological Surgeons/Congress of Neurological Surgeons; has been appointed as a committee member on the Cervical Spine Research Society Editorial Committee (3 years); appointed Chairman of the AO Spine North America Scientific Committee; received a Heart and Stroke Grant; has become a member of the Society of Neurological Surgeons.

**Fred Gentili** was cross-appointed to the Department of Otolaryngology, U. of T.; received a Presidential Citation from the American Head & Neck Society.

**Ab Guha** received a grant from Schering-Plough Virtual National Tumor Bank; elected President, Society of Neuro-oncology; received a NCIC grant.

**Mogi Hodaie** received a grant from Medtronic Neurological.

**Robin Humphreys** has been named Chair of the Grants Advisory Committee of the SickKids Foundation.

**Abhaya Kulkarni** received a CIHR grant; has been appointed as an Advisory Board Member of Think First Canada; appointed to the AANS/CNS Joint Guidelines Committee (3 years.)

**Andres Lozano** has been elected to the German Academy of Neurosurgery; has been appointed to the Editorial Board of the Journal of Neurosurgery.

**Richard Perrin** was appointed as Secretary of the World Federation of Neurosurgical Societies 2005-2009.

**Jim Rutka** was appointed as Secretary-Treasurer of the World Academy of Neurological Surgery; elected as Secretary, the American Association of Neurological Surgeons; received the 2006 Royal College Janes Visiting Professorship; was appointed to the Advisory Board for Neurosurgical Review; was awarded 1 of 3 grants from the Pediatric Brain Tumor Foundation (PBTF) of the United States; received the 2006 Charles Tator Mentoring Award; was made a Knight of the Order of Smile.

**Charles Tator** was presented with the Injury Prevention and Safety Promotion Award of Recognition at the Canadian Injury Prevention and Safety Promotion Conference; received full approval for funding of a McLaughlin Centre for Molecular Medicine Scientist training fellowship.

**Michael Taylor** received the Schweisguth Award for best research paper submitted to the SIOP meeting; received a Fellowship from the Emily Dorfman Foundation for Children/ABTA; is the recipient of the Connaught Award, U. of T.; received a 2 year CIHR grant; was awarded 1 of 3 grants from the Pediatric Brain Tumor Foundation (PBTF) of the United States; received 2 different grants from Brainchild; won the Neurosurgery Research and Education Foundation Young Clinician Investigator Award; was awarded a Neurosurgical Research and Education Foundation/Medtronic Research Fellowship from the American Association of Neurological Surgeons; received a grant from the National Brain Tumor Foundation.

**William Tucker** has been elected as a neurosurgery specialist for the Canadian Medical Protective Association.

**Michael Tymianski** received an Early Researcher Award from the Ministry of Research and Innovation; received a 5 year CIHR Grant.

**Taufik Valiante** was the recipient of the 2006 Alan Hudson Teaching Award; received the 2006 Ross Fleming Surgical Educator Award, UHN.

**Chris Wallace** received the Wightman-Berris Academic Postgraduate Teaching Award.
University of Toronto Neurosurgery Lectureships

Botterell – Dr. Ed Laws, University of Virginia, Charlottesville.

Keith – Dr. Webster Pilcher, Chairman of the Department of Neurological Surgery, University of Rochester.

Hendrick – Dr. Robert Sanford, Semmes-Murphy Clinic and St. Jude’s Children’s Research Hospital.

Lougheed – Dr. John Hurlbert, University of Calgary; and Dr. Steve Lownie, Chair of Neurosurgery, University of Western Ontario.

Marshall – Dr. Eelco Wijdicks, Chair, Division of Critical Care Neurology, Mayo College of Medicine.

City-Wide Rounds

Sunnybrook and Women’s College Health Sciences Centre, Dr. Amin Kassam, University of Pittsburgh.

St. Michael’s Hospital, Professor Michael Bliss, Professor Emeritus, University of Toronto.

The Hospital for Sick Children, Dr. John Popp, Albany, New York; Dr. Necmettin Pamir, Professor and Chairman of Marmora University, Istanbul, Turkey.

Courses Offered at the Surgical Skills Centre

Neuro-endoscopy Course, January 21st, 2006. Course instructor was Jim Drake with the assistance of Dr. Giuseppe Cinalli from Naples, Italy, Dr. Peter Dirks and Dr. Abhaya Kulkarni.

Thoracic and Lumbar Spine Fixation Course, February 17th, 2006. Eric Massicotte was course instructor.

Promotions

Full Professor – Dr. David Rowed

Retirement:

Dr. Harley Smyth

Publications by neurosurgery faculty and residents: 158

Visiting Professorships by U of T Faculty: 124
The academic programs in the Anatomy Division remain strong and the numbers of students registered in our courses continue to grow. Renovations are currently underway to create more teaching laboratory space to accommodate the larger numbers of students. While much of this growth has resulted from enrolment expansion in the professional faculties, there has also been a 50% increase in the number of students registered in Anatomy courses from the Faculty of Arts and Science.

With an award from the Academic Incentives Fund, Dr. Barbara Ballyk was able to increase the amount of laboratory time and improve the laboratory learning experience for students in the Faculty of Physical and Health Education.

The Division implemented a new innovation for teaching histology to the medical class this year. The traditional ‘microscope’ laboratories were eliminated and replaced with web-based, annotated, high resolution scans of tissue sections, which allow a personal computer to emulate a microscope. Students can now study their slides anywhere they have access to a high speed internet connection. The new approach creates a more student-centered approach to learning histology and greater opportunity for study and review.

Three new Ph.D. students have joined the Division this year: Jamie Doherty (Cindi Morshead, Supervisor) Alessandro Rossatelli and Kim Soo (Anne Agur, Supervisor.)

Dr. Paulo Koeberle has recently joined the Division as Assistant Professor in the Tenure Stream. Dr. Koeberle’s research focuses on the molecular mechanisms of neuronal degeneration and regeneration after traumatic CNS injury or stroke.

Dr. Anne Agur successfully underwent tenure review and became an Associate Professor with Tenure as of July 1, 2006.

Dr. Cindi Morshead was appointed to the faculty of the Terrence Donnelly Centre for Cellular and Biomolecular Research and has relocated her research laboratory from the Medical Sciences Building to the new CCBR facility. Cindi has also been appointed to the editorial board of Current Stem Cell Research and Therapy and to CIHR grant review panels for Development and for Regenerative Medicine and Nanomedicine: Innovative Approaches to Health.

At the Faculty’s annual Educational Achievement day, Dr. Ian Taylor was awarded the E. Mary Hollington Award for teaching with distinction in the preclinical curriculum of the medical program and Dr. Michael Wiley was awarded the Harry Whittaker Memorial Teaching Award.
The 2005-06 academic year was a dynamic time for the Division of Orthopaedic Surgery. Dr. James Waddell (St. Michael’s Hospital) completed a successful second term as A.J. Latner Professor and Chair of Orthopaedic Surgery. His tenure was marked by several events including the hospital consolidation, an expansion in the residency program, and the start of the local health integration network. Jim used each of these changes as an opportunity to strengthen the clinical and academic activity of the division members. He left us with a strong and vibrant division and he will continue to play a leadership role in orthopaedics in Toronto as the inaugural Chair of the Holland Centre. The Orthopaedic faculty and staff thank him for his leadership over the years and wish him well in his new position.

Four new faculty members were appointed this academic year: Daniel Whelan (arthroscopic and sports surgery) and Henry Ahn (spine surgery) to the division at St. Michael’s Hospital; Khalid Syed (reconstructive surgery) to the division at the University Health Network; and Reinhard Zeller (paediatric spine surgery) to the division at the Hospital for Sick Children. Danny, Henry, and Khalid trained in Toronto, and are well known in our division. Reinhard comes to us from Paris, France, where he has worked as an academic pediatric orthopaedic surgeon for the past fifteen years. All four of these individuals bring graduate academic training, demonstrated teaching excellence, and specialized clinical skills to our faculty.

Several of our current faculty members have taken new leadership roles in their hospitals or at the University. Two of our divisional members were appointed to leadership roles in the Department of Surgery. David Backstein (Mount Sinai Hospital) was appointed Director of Undergraduate Education and Andrew Howard (Hospital for Sick Children) was named the Director of the Office of International Surgery. Hans Kreder became the Head of Orthopaedic Surgery at Sunnybrook Hospital, and the inaugural holder of the Marvin Tile Chair in Orthopaedic Surgery. Jay Wunder was appointed Surgeon-in-Chief of Mount Sinai Hospital, bringing three of our fully affiliated hospitals under the leadership of an orthopaedic surgeon as Surgeon-in-Chief.

The Canadian Orthopaedic Association meeting was held in Toronto last June 2006. Emil Schemitsch (St. Michael’s Hospital) was the Program Chair and Stewart Wright (Sunnybrook) chaired the local arrangements committee. The Presidential Award for Excellence was presented to Robert Bell (University Health Network). The Canadian Orthopaedic Residents’ Association meeting was also held in Toronto, and hosted by two of our residents, Daniel Penello and Anna Kulidjian. Over 90 residents from 14 orthopaedic training programs in Canada attended the event.

Our faculty continues to provide an exceptional educational experience for our trainees, and two of our members received departmental teaching awards. Jay Wunder (Mount Sinai Hospital) received the E. Bruce Tovee Postgraduate Teaching Award and Robin Richards (Sunnybrook) received the E. Bruce Tovee Undergraduate Teaching Award. In addition, Daniel Penello (PGY4 resident) received the Harrison Teaching Award.

The division continues to excel in publications and presentations, and faculty members had over 250 publications or presentations this academic year. Research funding remains steady, but given the current realities of CIHR funding, our divisional members are continuing to seek alternative funding sources. Our faculty members or trainees supervised by our faculty received three of the research awards presented on Gallie Day. Cornelia Borkhoff (supervisor Jim Wright, Hospital for Sick Children) received the Wyeth Award for clinical research, Yan Chen (supervisor Ben Alman, Hospital for Sick Children) received second place in the McMurrich Award for basic science research, and Ben Alman (Hospital for Sick Children) received the Lister Prize for his work in developmental biology in orthopaedics. Bill Cole (Hospital for Sick Children) and Cari Whyne (Sunnybrook) were appointed as the co-chairs of our research committee. This committee will play an important role in our division in upcoming years as we incorporate research training into the residency program, and work to enhance faculty participation in research. Marvin Tile became Chair of Governing Council at Sunnybrook Foundation.

The 2005 Kennedy Visiting Professor was Robert Turcotte, McGill University. He spent several days with the faculty and residents, giving a fascinating glimpse into new advances in musculoskeletal neoplasia management. Graduating residents presented their research work to him during the main Kennedy Day activities.

The R.I. Harris Postgraduate Award was presented to Jubin Payandeh for the best graduating resident as voted by the faculty. The best resident presentations at Kennedy Day, as judged by our Visiting Professor, were given to Sam Bederman and Hamid Nourhosseini.

The 2006 Orthopaedic Research Day Visiting Professor was Dr. Suneel Apte from Lerner Research Institute, Cleveland Clinic Foundation. He spoke on the role of enzymes that degrade matrix in orthopaedic pathology, and presented data on how modifying these enzymes could be used to treat a wide variety of patient problems.
Our staff members received numerous other awards and honors this year. There are too many to list here but a comprehensive record is included in this annual report. One noteworthy honour is John Wedge’s (Hospital for Sick Children) appointment as a member of the Order of Canada, recognizing his work promoting healthcare in children.

This year Bill Kraemer (Toronto East General) was appointed as the Program Director for Orthopaedic Surgery. He has revamped the administrative and educational aspects of the residency program, and instituted an office at the Banting Institute. Under his leadership, there is renewed excitement and interest in establishing an improved training program, and I expect that we will see many more improvements in the coming years. We now have more clinical fellows training in the division than residents, and as such the department will be working to ensure that we have viable and educational fellowship programs. Nizar Mahomed (University Health Network) has been appointed as the division’s representative in this effort. I am sure that there will be substantial improvements in our fellowship programs under his leadership.

The University of Toronto’s Division of Orthopaedic Surgery embraces its long history of excellence in clinical care, teaching, and research led by exceptional individuals over the years starting with R.I. Harris and F.P. Dewar. In the upcoming years, the division is working towards increasing participation in research activities by its faculty and trainees.

Report written by Benjamin Alman (incoming A.J. Latner Professor and Chair of Orthopaedic Surgery)
Visiting Professors

This year’s Hoyle Campbell Visiting Professor was Dr. William Kuzon from the University of Michigan in Ann Arbor, Michigan. Dr. Kuzon’s visit was particularly gratifying since he is an alumnus of our training program. Dr. Richard Warren from the University of British Columbia was Visiting Professor for the annual resident aesthetic Symposium held on April 3rd.

Promotions

Drs. Chris Forrest and John Semple were promoted from Associate to Full Professor. Drs. John Phillips and Mitch Brown were promoted from Assistant to Associate Professor.

Awards

Recipients of divisional awards included Dr. Brent Graham, who was awarded the Arnis Freiberg Teaching Award; and Dr. Peter Neligan, who was awarded the W.K. Lindsay Research Supervisor Award. The resident research presentations are the highlight of the visiting professor’s visit. Dr. Selig Krajden was awarded the Mentor Prize for the best clinical paper. Dr. Karen Cross was awarded the John Edward DeToru Scholarship for the best research paper. The Mentor Systems Graduate Scholarship in Plastic Surgery was also awarded to Dr. Karen Cross. Karen is completing a PhD in the Surgeon-Scientist Program, in the field of near-infrared spectroscopy and specifically its application to burn wound assessment. Dr. Rob Cartotto won the 2006 PAIRO Excellence in Clinical Teaching Award. Dr. Cartotto was one of 2 winners chosen from the University of Toronto. Dr. Artur Gevorgyan (Research Fellow, Supervisor Dr. Chris Forrest), won the Shenaq Award at the Plastic Surgery Research Council Annual Meeting held in Dana Point, California in May. Dr. Glyka Martou (PGY2) won the award for best resident research paper presented at the annual meeting of the Canadian Society of Plastic Surgeons in Quebec City in June.

Academic Achievement

Dr. Dimitri Anastakis completed a Masters in Health Care Management (MHCM) at Harvard University.

Professional Activity

Dr. Peter Neligan was elected Secretary General of the World Society for Reconstructive Microsurgery, at its bi-annual meeting in Buenos Aires, Argentina in October. Dr. Neligan was also elected as Secretary of the American Society for Reconstructive Microsurgery at its annual meeting in Tucson Arizona.

Textbook Publication

Dr. Peter Neligan was co-editor of a two volume textbook entitled “Perforator Flaps: Anatomy, Technique and Clinical Applications” published by QMP Publications, St. Louis, Missouri, in October, 2005. Dr. Steven Morris of Dalhousie University, who is an alumnus of the University of Toronto Plastic Surgery Training Program, was another member of the four-member editorial team.

Meetings

The 32nd Annual Aesthetic Surgery Symposium was held at the Sutton Place Hotel, Toronto, Ontario, on March 31st-April 1st. This was preceded by the 5th Annual Breast Surgery Symposium on April 30th. Both meetings were well attended.

Graduating Residents

We had four residents taking the Royal College examinations this year. All four, Drs. Judy Ward, Cory Goldberg, Selig Krajden and Brent Howley, were successful.

Fundraising

Fund-raising continues to be a priority and in September, 2005, we held our annual golf tournament to support the divisional PREFER fund. This event, held annually, raises approximately $30,000 to support research and education within the Division. A campaign has also been launched to raise money for a Chair in Plastic Surgery, at the University of Toronto.
Clinical Accomplishments

The Division of Thoracic Surgery continues to have the largest clinical activity of any Thoracic program in Canada. We continue to serve as the primary tertiary referral centre for most of Ontario and a quaternary referral centre for the rest of Canada. The Toronto Lung Transplant Program continues to be an international leader in clinical activity and outcomes. The End Stage Lung Diseases Program, a multi-disciplinary endeavor with the Respirology Division, continues to grow with integrated innovative approaches to diseases such as emphysema, pulmonary fibrosis and pulmonary hypertension. The Foregut Program focuses on clinical and academic endeavors related to diseases of the esophagus and proximal stomach. The Thoracic Service has continued to expand activity and expertise in advanced minimally invasive surgery, for the management of both benign and malignant thoracic conditions.

Teaching and Research

The University of Toronto continues to be the largest and most comprehensive training program in the country for Thoracic Surgery, providing residency training within the Royal College Program and fellowship training to numerous surgeons from all over the world, under the coordination of Dr. Gail Darling, Program Director. The FG Pearson Award for Best Resident/Fellow Teacher was awarded to Dr. Dennis Wigle. The RJ Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Andrew Pierre. The GE Darling Award for Excellence in Undergraduate Teaching was awarded to Dr. S. Keshavjee. The 2nd Annual Pearson Day was a tremendous success – highlighting the breadth of clinical and basic science research activity in the division. The trainee award for Best Clinical Paper was awarded to Dr. Masaki Anraku (Supervisor – Keshavjee) and Best Basic Science Paper was awarded to Ms. Amy Wong (Supervisor – Waddell.)

The Thoracic Surgical Research Laboratories continue to be very successful with grant capture and publications. The investigators work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology. Drs. Keshavjee, Liu and Waddell each maintain highly ranked CIHR operating grants, for their respective research projects. Drs. Marc de Perrot and David Hwang (Pathology) have continued to add significant strength and activity in the Thoracic Surgery Research Group, at Toronto General Hospital Research Institute. Our laboratory program continues to provide an exciting and productive research training environment for graduate students and residents in the Surgical-Scientist Program (MSc, PhD) and for numerous postgraduate fellows from all over the world.

Our Clinical Research Program also continues to be very productive. Members of our group are heavily involved in clinical trials in lung cancer, benign and malignant esophageal disease, and lung transplantation; with our division members being principal or co-principal investigators on a number of national and international multicentre trials.

Recruitment, Promotion and Honours

We have continued to build the Division with strong recruits and increased cross division academic and service initiatives between the three University hospital divisions, namely: Toronto General, St. Joseph’s and Toronto East General Hospitals.

Congratulations to Dr. Michael Johnston who was promoted to the position of full Professor in the Department of Surgery, and to Dr. Christopher Compeau who was promoted to the position of Assistant Professor this year.
**Division of Urology**

**Sender Herschorn** - Chair

**Highlights**

**Dr. Keith Jarvi** was promoted to Professor. **Dr. Walid Farhat** was promoted to Associate Professor and **Dr. Kirk Lo** was promoted to Assistant Professor.

**Sick Kids**

**Dr. Darius Bagli** continued his work in The Role of Hypoxia in Fibroproliferative bladder Disease for which he was awarded a research grant from the National Institutes of Health. He was an invited speaker to meetings in the U.S. and Bermuda.

**Dr. Walid Farhat** continued his work in tissue engineering and repopulation of acellular matrices for bladder reconstruction with grants from the Hospital for Sick Children CIHR, and the Cleveland Clinic Foundation. He was an invited lecturer to various cities in the U.S. and Kuwait.

**Dr. Tony Khoury** continued as site chief at Sick Kids. He also continued his peer reviewed research and was invited to lecture at various places in Canada and the U.S. Dr. Khoury is one of the editor of the new Kelalis-King-Belman textbook of Clinical Pediatric Urology. He also wrote the chapter in the new Campbell-Walsh Textbook of Urology on reflux.

**Mount Sinai Hospital**

**Dr. Keith Jarvi**, site chief at MSH, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC). He was promoted this year to Professor. Dr. Jarvi again organized the Annual Robson Research Day Resident and Fellow scientific presentation contest and he continued his peer review funded research in Andrology and Infertility.

**Dr. Kirk Lo** continued his basic infertility research in stem cells. He was promoted to Assistant Professor and is the supervisor of Dr. Samy Heshmat who received an International Society – Canadian Urological Association Scholarship Foundation award.

**Sunnybrook**

**Dr. Lesley Carr** continued her work as an investigator in grant to evaluate the efficacy of amitriptyline for the treatment of painful bladder syndrome, funded by the NIH. She also is conducting clinical research on the use of muscle stem cells for stress urinary incontinence. Dr. Carr was in charge of Journal Seminars for Urology residents and directed the Botulinum Toxin Course following Urology Update 2005.

**Dr. Sender Herschorn** completed his 5-year term University Division Chair and was renewed for a second term after an external review conducted by Dr. Larry Goldenberg from UBC. He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction. He was invited speaker and lecturer in various meetings in Australia, Ireland, and the U.S., as well as other cities in Canada. He wrote the Vaginal Surgery chapter in the new Campbell-Walsh textbook of Urology. He also won the Peters-Boyd Academy Undergraduate Clinical Teaching Supervision Award. 2006 and directed the 13th annual Urology Update.

**Dr. Laurence Klotz**, site chief at Sunnybrook, continued his research in Uro-oncology and his many leadership appointments including Editor-in-chief of the Canadian Journal of Urology. He continued as Chair of the Canadian Urology Research Consortium the World Uro Oncology Federation, (WUOF), an organization of 12 national and regional Uro Oncology Societies around the world. He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer treatment and prevention. He was guest speaker and visiting professor in Korea, Norway, France, and various cities in Canada and the U.S. He was also elected Vice-President of the Canadian Urological Association.

**Dr. Ron Kodama** continued as Program Director and again organized the third Annual Resident Basic Science Course in February. He again organized the Surgical Skills Lab session on TURP and TURBT. He directed the annual Urology Fair 2006.

**Dr. Robert Nam** continued his work in uro-oncology with research in the genetics of prostate cancer. He was an invited speaker at the ASCO prostate cancer session in San Francisco. He received new peer-reviewed NCIC and CIHR grants for prostate cancer research and a CIHR New Investigator Award for Salary Support in 2006. Dr. Nam was also won the Langer Surgeon-Scientist award for the Department and the Tile Distinguished Service award at Sunnybrook.

**Dr. Sharon Sharir** continued her work in studying outcomes in women’s and men’s experiences when undergoing radical cystectomy for bladder cancer. Dr. Sharir also received a Dean’s fund new staff grant study of lymphadenectomy for bladder cancer.
Dr. Vasundara Venkateswaran continued her basic research in the peer-reviewed prostate cancer project on a transgenic mouse prostate cancer prevention model. She also received new CIHR and CPRF awards as PI for prostate cancer research.

UHN - TGH and PMH

Dr. Neil Fleshner, site chief at the UHN, continued his clinical and basic research in prostate cancer with major peer-reviewed grants from CIHR, NCIC, and CPRF. He was guest speaker at various cities in Canada and the U.S. He spearheaded the Canadian Urological association project on wait-times for cancer surgery in Canada. He also co-chaired the 4th Annual Current Problems in Urology meeting in Banff.

Dr. Michael Jewett was named the first holder of the Farquarson Chair in Kidney cancer Research at PMH and the University of Toronto. He continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. Dr. Jewett completed his term as President of the Canadian Urologic Association. He was also invited speaker and visiting professor in various cities in North America.

Dr. Michael Robinette continued as the major individual contributing to the Multi-organ transplant program at the UHN, specifically in kidney transplants.

Dr. John Trachtenberg continued his active research into novel therapies for prostate cancer with grants from CIHR, NCIC, NIH, CPRF, and industry. He was invited speaker and visiting professor in the U.S. and France. He also co-chaired the 14th Annual Issues and Controversies in Prostate Care in Phoenix, AZ.

Dr. Tony Finelli continued his work in advancing laparoscopic urologic procedures. He was a guest speaker in various cities in Canada and demonstrated laparoscopic procedures in St. John, NB. He also continued his clinical research studies in renal cell carcinoma.

UHN - TWH

Dr. Magdy Hassouna continued his basic and clinical work in neuourology and neuromodulation.

Dr. Sidney Radomski continued his role as the Urology co-ordinator in the Surgical Skills Lab. He conducted hands on sessions for the residents in various minimally invasive topics during the year. He continued his work in peer-review and industry funded grants in incontinence, overactive bladder, and erectile dysfunction.

St. Michael's Hospital

Dr. John Honey, site chief at St. Michael’s, continued his work as Director of Endourology and the Stone Treatment Centre at SMH. He continued his clinical research studies in lithotripsy.

Dr. Kenneth Pace continued his work in clinical epidemiology and Stone disease and Minimally Invasive Surgery. He continued his work on the impact of laparoscopic surgery on renal physiology and patient satisfaction following SWL. Dr. Pace directed the 1st Annual Advanced Laparoscopic Urology Course in advance of Urology Update 2005. He continued his work as Chair of the IT committee for the Canadian Urological Association.

Dr. Robert Stewart continued as the principal urologist in the kidney transplantation program. He organized the weekly Urology Resident Postgraduate Seminars and continued as director of undergraduate surgery education at SMH.

Academic Events and Awards

The Annual Charles J. Robson Research Day was held on March 30. The Visiting Professor was Dr. Craig Peters, Coles Professor of Urology, University of Virginia, Charlottesville, VA. There were over 25 research presentations. Resident winners were Jason Lee, Bryce Weber, Girish Kulkarni, and Ryan Groll. Fellow winners were Luis Braga, Maher, Moazin, Seamus Teahan, and Armando Lorenzo.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Tim Davies.

Drs. Ashis Chawla, Kurt Eeg, Ethan Grober, David Hajek, and Armando Lorenzo passed their Royal College Examinations.

Visiting Professors

Guests this year included Paul Abrams, University of Bristol, Craig Peters, University of Virginia, Jacques Corcos, McGill University, Culley Carson, University of North Carolina, Jihad Kaouk, Cleveland Clinic, Larry Lipshultz, Baylor College of Medicine, James Montie, University of Michigan, Abraham Morgentaler, Harvard University, Ian Thompson, University of Texas, and Eric Winquist, University of Western Ontario.
**Introduction**

Major changes to the structure of the Division of Vascular Surgery have occurred this year. Vascular Surgery has been consolidated at two Centers of Excellence: Toronto General Hospital and St. Michael’s Hospital. Drs. Tanner and Campbell moved from the Toronto East General to St. Michael’s in early February, while in mid-January Drs. Wooster and Oreopoulos moved to Toronto General Hospital. This represented completion of the work of the Vascular Services GTA Review Steering Committee headed by Mr. Jeff Lozon and the implementation committee headed by Dr. Robert Howard of St. Michael’s Hospital.

An infusion of over 11 million dollars of new funding into these Centres by the Ministry of Health and Long Term Care, including resources for Endovascular Aneurysm repair, was critical to the success of this reorganization. In addition, the surgeons at the two centers began an alternate funding compensation model on December 1, 2005 that was negotiated by Drs. Tanner and Lindsay with the Ministry of Health, which required an enhanced surgeon commitment to accept CritiCall patients. The completion of this reorganization has created a critical mass of surgeons to deliver patient care, education and research. At Sunnybrook, there has been a merger between Cardiac and Vascular Surgery into a Division of Cardiovascular Surgery.

**Administration**

Drs. Tanner and Lindsay served on the Vascular Services GTA Review Steering Committee, the implementation committee, and were the negotiating team for the Alternate Funding Plan. Dr. Lindsay continued his role as an examiner with the Vascular Surgery Examination Board at the Royal College of Physicians and Surgeons. Dr. Lindsay also became the President of the Canadian Society for Vascular Surgery at the September 2005 meeting.

K.W. Johnston continues as R. Fraser Elliott Chair in Vascular Surgery and Editor-in-Chief of VascularWeb, a consortium of 11 North American Vascular Societies and editor of a new vascular newspaper called the Vascular Specialist. Dr. Johnston was appointed President-Elect of the Society for Vascular Surgery, at the June 2006 meeting, a position that will lead to the Presidency of that organization in June 2007.

Dr. Barry Rubin continues as the Chairman and CEO for both the Mount Sinai Hospital/University Health Network Academic Medical Organization and the University Health Network/Mount Sinai Hospital Health Practitioners Funding Group. He has also been active as a Provincial Representative for the Academic Health Science Centre Alternative Funding Plan Governance Organizations in Ontario, continues to serve as a representative on the AHSC AFP Task Force and is Chair of the Full Time Equivalent working group of the Task Force. Dr. Rubin continues to serve on the Department of Surgery Finance Committee, and was elected to serve on the Research and Education Committee of the Society for Vascular Surgery.

Dr. Tanner continues as the Head of the Section of Vascular Surgery at the Ontario Medical Association, the Head of the Provincial Hospital On-Call Funding Program and as a representative to the Physician Services Committee, which is the interface between the OMA and the MOHLTC for ongoing contractual issues. Dr. Wooster continues as the Chair of the Standards Committee of the Royal College of Physicians and Surgeons Maintenance of Certification Program; this Committee is structuring the next cycle of this CPD program for all Fellows. Dr. Kucey was nominated to become the President-elect of the Canadian Society of Vascular Surgery at the Annual meeting in September 2005.

**Graduates**


**Research**

Dr. Johnston continues with his four-year CIHR grant to support his basic research programs, with Professor Richard Cobbold (Biomedical Engineering) in Doppler ultrasound. Dr. Rubin is funded as the Primary Investigator on grants from CIHR and the Heart and Stroke Foundation of Canada for research into gene regulation in the heart. The SAVR Program (Systematic Assessment of Vascular Risk) initiated by Dr. Lindsay continues to enroll patients to assess and intervene upon patients with atherosclerosis and under treated risk factors. Dr. Lindsay continues his research into mechanisms of organ injury following ruptured abdominal aortic aneurysms. Dr. Lossing and David Courtman continue their research examining the changes in the matrix structure of abdominal aortic aneurysms.
Awards
Dr. Robert Maggisano was promoted to the rank of Associate Professor in May 2006. Dr. Lindsay won the Surgical Skills Centre Distinguished Educator Award, at Gallie Day 2006. Dr. Rubin was elected as a Distinguished Fellow of the Society for Vascular Surgery.

External Visits and Visitors
Dr. Johnston was invited to be the inaugural Robert B. Smith III Lecturer at Emory University, Atlanta, GA. on February 1-2, 2006. He spoke on “How Industry Influences the Reported Results of Clinical Trials”. He was also an invited lecturer at the Brazilian Congress of Angiology and Vascular Surgery, at the University of West Virginia Symposium Refresher Course and the Veith Symposium. Drs. Johnston and Lindsay presented at the Winnipeg Vascular Surgery course in April 2006. Drs. Lindsay, Oreopoulos and Wooster presented on the applications of Duplex ultrasound at the VITO meeting in Toronto in May 2006. Dr. Wooster presented at the CAUS Vascular Symposium in Banff, Alberta, the St. Michael’s Renal Symposium in Toronto, the Ontario Amputee Society Meeting and at the Rochester, N.Y. Symposium. Dr. Ameli presented at the Association of International Vascular Surgeons on the reorganization of Vascular Surgical Services in Toronto. Dr. Lossing presented at the New England Society for Vascular Surgery on familial aneurysms.
As President of the Surgical Alumni Association (SAA) since 1999, I don’t believe there has been a year quite like 2005-2006. In this academic year, I’ve observed both a deepening of the SAA’s mandate, as well as a flexibility to welcome new programs and staff to support our mission, the “preservation of our legacy, in research, investigation and education, and to uphold the integrity of the Surgeon-Scientist Program at the University of Toronto.”

That integrity now also includes the new Scholarship in Surgery program. Both programs provide excellent research training for surgical residents who wish to pursue a career in academic surgery. As in past years, much of the support for these future stars comes from the alumni and past and current faculty of the department. I would submit that 2005-2006 was a banner year in this respect. Taking advantage of current government and university matching programs, the SAA raised over $181,000 to add to its fellowship endowment, making sure there is salary support in perpetuity for SSP and SIS residents.

In 2005-2006 the Surgical Alumni Association also welcomed the department’s new Chairs in Plastic Surgery (Dr. Dimitri Anastakis) and Orthopaedic Surgery (Dr. Benjamin Alman.) We thank outgoing Chairman, Dr. James Waddell and Dr. Peter Neligan, for their service to the SAA over the years. Both divisions have had extraordinary success with their fundraising efforts on behalf of the association and department.

Finally, alumni, current and retired faculty and friends of the department came forward and identified their intentions to remember the SAA/Department of Surgery with over $1.2 million through their Wills. These gestures are of the ultimate order and serve to remind me just how defining the Department of Surgery has, is and will continue to be for all of us reading this report.
Surgical oncology activity continues to expand in many divisions through the Department of Surgery. In the clinical arena, government focus on increasing cancer surgery volumes has provided the impetus to recruit new surgical oncologists. These recruitments have also provided great opportunities to expand the academic impact of the Division of Surgical Oncology in the department.

St. Michael’s Hospital has a renewed focus on oncology, emphasizing management of breast and colorectal cancer. With the recruitment of Dr. Nancy Baxter, SMH has invested in clinical research with a focus on outcomes, and has leadership in multi-centre randomized trials in oncology both from a national and North American perspective.

Sunnybrook has recruited Dr. May Lynn Quan and Dr. Natalie Coburn to bolster breast and hepatobiliary oncology foci. In addition, Dr. Anna Gagliardi, a PhD researcher, was recruited to strengthen the focus on knowledge translation in cancer. Knowledge translation efforts remain a central challenge for surgical oncologists at The University of Toronto as they strive to help improve cancer care through the province, e.g. emphasis on colorectal cancer quality markers.

UHN/MSH lays claim to 46 surgical oncologists who last year performed 6,992 cancer surgeries. 61% of these were classified as tertiary level cases. The future emphasis of UHN/MSH is the development of Guided Therapeutics Program embracing innovative technologies in imaging (e.g. real time cone beam CT) and tumour ablation (e.g. involving robotics.) This work is being developed and led by a cohort of surgical oncology scientists/investigators.

Fellowship programs in all disciplines continue to thrive and impact cancer care throughout the world. For example, the Uro-oncology Program directed by Drs. Laurie Klotz and Michael Jewett this year boasted graduates returning to Saudi Arabia and Ireland while presently providing postgraduate training to urologists from New Zealand, Australia and Israel. In Canada, general surgery oncology training is transitioning to certification status, so there will be a national certifying exam beginning in September, 2009. Dr. Carol Swallow will play a major role in facilitating this evolution.

University of Toronto surgical oncologists continue to provide extensive, direct input and leadership into Cancer Care Ontario initiatives. This includes development of HPB and thoracic surgery quality initiatives and standards documents as well as development of guidelines for the development of multidisciplinary case conferences (tumour boards) through the province (Dr. Frances Wright.) As well, Drs. Jonathan Irish and David Urbach lead efforts to better understand and positively impact wait times and access to cancer care.
Continuing professional development continues to be a major focus within the department. Most members participate actively in educational program of all descriptions.

Six years ago the members of the department began recording their CPD activities in compliance with the Royal College of Physicians and Surgeons of Canada guidelines for accreditation. The guidelines require tracking all of the CPD activities for each year is well known. Fellows are required to earn 400 credits during 5 years of active practice by participating in educational activities of their choice. The first 5-year cycle extends from January 1, 2001 until December 31, 2005. Those who began in 2000 had 6 years to complete the mandatory 400 hours. Members are required to submit continuing professional development (CPD) hours from the previous year by the January 31st deadline. Each year a random sample of 3% of fellows are required to validate their self-reports of participation in educational activities.

The participation rate of members of surgical specialists in Ontario in the program is in the following table which is compiled from information on the RCPSC website (http://rcpsc.medical.org/opd/statistics/index.php).

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>2001</td>
<td>14 (57.1)</td>
<td>564 (75.7)</td>
<td>75 (69.3)</td>
<td>408 (78.6)</td>
<td>168 (74.4)</td>
<td>30 (93.3)</td>
<td>216</td>
<td>64 (81.2)</td>
</tr>
<tr>
<td>2002</td>
<td>13 (53.8)</td>
<td>579 (75.9)</td>
<td>73 (67.1)</td>
<td>413 (78.2)</td>
<td>169 (75.7)</td>
<td>32 (75.0)</td>
<td>228</td>
<td>68 (75.0)</td>
</tr>
<tr>
<td>2003</td>
<td>15 (80.0)</td>
<td>440 (75.9)</td>
<td>49 (67.1)</td>
<td>323 (78.2)</td>
<td>128 (75.7)</td>
<td>28 (93.3)</td>
<td>181</td>
<td>51 (75.0)</td>
</tr>
<tr>
<td>2004</td>
<td>16 (68.7)</td>
<td>431 (78.2)</td>
<td>71 (76.0)</td>
<td>345 (84.1)</td>
<td>131 (82.0)</td>
<td>31 (90.3)</td>
<td>184</td>
<td>57 (83.8)</td>
</tr>
<tr>
<td>2005</td>
<td>20 (70.0)</td>
<td>443 (82.8)</td>
<td>72 (73.6)</td>
<td>350 (82.3)</td>
<td>146 (83.9)</td>
<td>35 (85.7)</td>
<td>183</td>
<td>57 (83.8)</td>
</tr>
</tbody>
</table>

The range of participation rate of those surgical specialists listed above in 2005 was from 70% to 86.1%. For all specialists with a full-time university appointment in Ontario the participation rate in 2005 was 86.1% versus 85.1% for those with no university appointment.

Most divisions held courses this year and there were 20 that were run by the University Continuing Education Department, an increase of 3 over last year. The list of the courses is in the following table. Of note is General Surgery that held its 45th annual update. The Aesthetic Plastic Surgery Course has been given for 36 years. The Thoracic Surgery course was given for the 32nd year. The Vascular course has been given for 24 years and the Upper Extremity course for 21 years. The Urology Update was 13 years old. All events were very well attended. There were 2854 participants in the courses.

**Table: CE events**

<table>
<thead>
<tr>
<th>Title</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update In General Surgery 2006</td>
<td>446</td>
</tr>
<tr>
<td>Update In General Surgery (Mexico Site)</td>
<td>36</td>
</tr>
<tr>
<td>Webcast Update In General Surgery 2006</td>
<td>7</td>
</tr>
<tr>
<td>Foot And Ankle Symposium</td>
<td>217</td>
</tr>
<tr>
<td>Thoracic Surgery 2006</td>
<td>155</td>
</tr>
<tr>
<td>Pelvic Fracture Course</td>
<td>-</td>
</tr>
<tr>
<td>Upper Extremity Update 2006</td>
<td>165</td>
</tr>
<tr>
<td>International Surgery</td>
<td>-</td>
</tr>
<tr>
<td>Aesthetic Plastic Surgery</td>
<td>200</td>
</tr>
<tr>
<td>Vascular Imaging Toronto 2006</td>
<td>50</td>
</tr>
<tr>
<td>Breast Surgery Symposium</td>
<td>144</td>
</tr>
<tr>
<td>Botulinum Toxin In Urology</td>
<td>39</td>
</tr>
<tr>
<td>Urology Update 2005</td>
<td>254</td>
</tr>
<tr>
<td>Kennedy Visiting Professor</td>
<td>25</td>
</tr>
<tr>
<td>Fixation Of Knee Fractures</td>
<td>30</td>
</tr>
<tr>
<td>Vascular Imaging (Savi)</td>
<td>0</td>
</tr>
<tr>
<td>Urologic Laparoscopy</td>
<td>12</td>
</tr>
<tr>
<td>Surgical Oncology</td>
<td>173</td>
</tr>
<tr>
<td>Toronto Critical Care Medicine</td>
<td>901</td>
</tr>
<tr>
<td>Critical Care Trials</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2854</strong></td>
</tr>
</tbody>
</table>
The new framework for documenting CPD activities is reproduced below from the Royal College website (Maintenance of Certification Program Guide - http://rcpsc.medical.org/opd/moc-program/index.php). Of note is that in Section 6, Personal Education Development, there is no limit on the number of credits that are able to be applied. Formerly there was a maximum of 20 per year. Academic surgeons are often heavily engaged in this type of CPD.

<table>
<thead>
<tr>
<th>Section 1</th>
<th>Accredited Group Learning Activities</th>
<th>1 credit per hour: No maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Events that meet established educational ethical standards for group learning activities</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td>a. Hospital-based rounds, journal clubs or other educational events (approved by a planning committee)</td>
<td>• Official certificate of attendance or confirmation of participation</td>
</tr>
<tr>
<td></td>
<td>b. Small-group learning sessions (approved by a planning committee)</td>
<td>• Optional – documented learning Outcome(s) for practice</td>
</tr>
<tr>
<td></td>
<td>c. Accredited group learning activities held outside Canada (approved by a Royal College accredited provider)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. Accredited group learning activities held outside Canada (sponsored by a university, academy, specialty society or physician organization)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e. Web-based continuing medical education events (approved by a Royal College accredited provider in Canada and meets the same criteria defined for face-to-face accredited group activities)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 2</th>
<th>Other Learning Activities</th>
<th>1 credit per hour: Maximum 100 credits per cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-accredited group events and individual learning activities that do not meet the standards for Section 1. E.g., unaccredited conferences, journal reading, browsing the internet, etc.</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• No documentation required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 3</th>
<th>Accredited Self-Assessment Programs</th>
<th>2 credits per hour: No maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Programs developed or approved by a Royal College accredited provider designed to assist the specialist to identify gaps in knowledge (written self-assessment programs) or performance (simulators)</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Confirmation of completion by the program sponsor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Documented learning outcome(s) for practice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4</th>
<th>Structured Learning Projects</th>
<th>1 credits per hour: No maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Self-initiated learning activities stimulated by practice where an outcome is identified and recorded</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td>a. Personal learning projects - individually planned learning projects stimulated by questions in practice</td>
<td>• Personal learning projects—question, stimulus, resources and documented learning outcome(s) for practice</td>
</tr>
<tr>
<td></td>
<td>b. Traineeships—learning activities developed to meet specific professional needs.</td>
<td>• Traineeships—learning objectives, learning activities, confirmation of completion by supervisor and documented learning outcome(s) for practice</td>
</tr>
<tr>
<td></td>
<td>c. Preceptored courses, fellowships, master or PhD programs sponsored by a university or college</td>
<td>• Courses &amp; programs—learning objectives, confirmation of completion by the university, college or institute; and documented learning outcome(s) for practice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 5</th>
<th>Personal Practice Review</th>
<th>3 credits per hour: No maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Activities that assist specialists to review their personal performance in practice in relation to a defined standard</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Date of completion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Summary of findings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Documented learning outcome(s) for practice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 6</th>
<th>Personal Education Development</th>
<th>1 credit per hour: No maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Learning stimulated by engaging in:</td>
<td>Documentation Requirements:</td>
</tr>
<tr>
<td></td>
<td>a. Teaching—formal presentations</td>
<td>• Description of the activity</td>
</tr>
<tr>
<td></td>
<td>b. Research—publications and grant proposals</td>
<td>• Documented learning outcome(s) for practice</td>
</tr>
<tr>
<td></td>
<td>c. Standard setting activities</td>
<td></td>
</tr>
</tbody>
</table>

The department continues to be a large provider of CPD courses due to the skill and motivation of its members. Over the past 5 years CPD has assumed a greater importance in the lives of surgeons. CPD activity is necessary for maintenance of certification and patients expect physicians to engage in life-long learning. Excellence in providing continuing education for our peers also has a positive impact on an individual’s annual performance review and in academic promotion.
This is my second report as Surgeon-In-Chief, having begun my term on January 1, 2005. Several important events are ongoing at the Hospital. First, the Hospital, through a broad consultative process, has developed five strategic directions: leading nationally and internationally, enhancing system capability, strengthening integration of care, research and teaching, establishing areas of focus, and achieving operational excellence. Second, the Ontario Child Health Network and Sick Kids are leading a province-wide initiative to address surgical waiting times for children. Access targets for nine surgical disciplines were adopted on a national basis in February 2006, at a meeting of the National Coalition for Children and Youth. Finally, the Hospital is preparing for renegotiation of the AFP which is now entering its 13th year.

New Staff
No new staff joined the hospital in July 1, 2005 to June 30, 2006.

Appointments and Promotions
Dr. Benjamin Alman has been appointed the A.J. Latner Chair of the Division of Orthopaedics at the University of Toronto effective July 1, 2006. Drs. Walid Farhat and John Phillips were promoted to Associate Professors. Dr. Christopher Forrest was appointed to Professor. Dr. James Rutka is the Royal College Janes Visiting Professor and received the International Order of the Smile. Dr. Andrew Howard was the inaugural John Sharrard Memorial Award and Invited Lecturer for the British Society of Children’s Orthopaedic Surgery. Dr. Unni Narayanan received a Young Investigators Award from the Paediatric Orthopaedic Society of North America. Dr. Pippi Salle was appointed CME Director for the Department of Surgery, University of Toronto.

Education
The Hospital continues an active educational program training 267 fellows and residents originating from 39 countries worldwide. Among many courses and visiting professors, a highlight was the course in Hypospadias led by Dr. Pippi Salle, with international attendance and innovative teaching methods.

Research
The Hospital is a vibrant centre of research spanning all scientific fields and venues from the wet labs at Sick Kids, to the dangerous roadways of Uganda. Of the 32 surgeons, 12 in the Department have CIHR grants.
DIVISION OF CARDIAC SURGERY

Dr. C. Caldarone - Associate Professor
Dr. J.G. Coles - Professor
Dr. G.S. Van Arsdell - Associate Professor (Division Head)
Dr. W.G. Williams - Professor
Dr. C. Wittnich - Professor

Publications


Invited Visits to Other Hospitals/Universities


Caldarone C: International Symposium on the Hybrid Approach to Congenital Heart Disease, Children’s Hospital Columbus, Ohio, June 2006. 1) Hybrid Workshop at University Laboratory Animal Resources, Experimental Surgery Suite; 2) Hypoplastic Left Heart Syndrome: Hybrid Stage I & II.


Caldarone C: Society of Cardiovascular Anesthetists, Whistler, British Columbia, March 2006. Where is Cardiovascular Care Going in the Future?


Van Arsdell GS: Contemporary Questions in Congenital Heart Disease: The Right Heart, Hospital for Sick Children, Toronto, Ontario, June 2006. How Often Can We Preserve the RVOT at the Time of Primary Repair?


Van Arsdell GS: Contemporary Questions in Congenital Heart Disease: The Right Heart, Hospital for Sick Children, Toronto, Ontario, June 2006. PFO, 1 1/2 Ventricle, Both? How Do We Surgically Manage the Borderline RV?

Van Arsdell GS: Oregon Health and Science University: 16th Annual Congenital Heart Disease in the Adult, Oregon, June 2006. 1) Strategies I Use for Revising Fontan Procedures in Adults; 2) Surgery and Catheter Intervention (moderator.); 3) What Can a Surgeon Do that Isn’t Done So Well Percutaneously?; 4) What is the Role for Hybrid Procedures? Outcomes Data?; 5) What Can Surgeons Do to Minimize the Risk of Neurodevelopmental Problems in Post-Op Patients?


Williams WG: Contemporary Questions in Congenital Heart Disease: The Right Heart, Hospital for Sick Children, Toronto ON, May 2006. The Dr. Bill Mustard Lecture: The RV Friend or Foe.

Research and Investigations

*Senior Investigator’s Name Appears in Italics*

A Training Program in Cardiovascular Research: Molecules to Humans, Heart Failure to Prevention (TACTICS.) *Peter Liu*, 31 co-applicants including Carin Wittnich: *CIHR* ($855,000 2002 - 2007.)


Can Remote Ischemic Preconditioning Modulate Cardiopulmonary Dysfunction and Systemic Inflammation Induced by Cardiopulmonary Bypass? *Redington A*, Van Arsdell GS, Downey GP: Canadian Institutes of Health Research ($330,666 2003 - 2006.)

Early Postoperative Apoptosis after Cardiac Surgery in the Neonate. *Caldarone CA*: American Heart Association Scientist Development Grant ($260,000 2002 - 2006.)

Impact of Gender on Myocardial Pathology & Ischemia/Reperfusion (Renewal.) *Wittnich C*: Heart & Stroke Foundation of Ontario ($249,000 2004 - 2007.)


Oxygen Stress in Newborn Hearts (Renewal.) *Wittnich C*: Heart & Stroke Foundation of Ontario ($387,069 2002 - 2006.)


Honours Received

*Wittnich C*: Ontario Veterinary Medical Association Recognition Award 2006 for Hurricane Katrina Relief Efforts, March 2006.
DIVISION OF GENERAL SURGERY

Dr. P. Chiu – Assistant Professor  
Dr. S.H. Ein - Associate Professor  
Dr. A.H. Fecteau – Assistant Professor  
Dr. J.T. Gerstle - Assistant Professor  
Dr. P.C.W. Kim - Associate Professor  
Dr. J.C. Langer – Professor (Division Head)  
Dr. P. Wales - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Langer JC: University of West Indies, Bustamante Children’s Hospital, Kingston, Jamaica, December 2005. Transanal Soave Pullthrough for Hirschsprung’s disease.

Research and Investigations

Senior Investigator’s Name Appears in Italics

A Qualitative Study Comparing Health Care Providers’, Patients’, and Family Perceptions, Attitudes and Beliefs About the Risk of Living Liver Donation. Fecteau A, Grant D, Wright L: Physicians Services Incorporated Foundation ($64,000 2004 - 2006.)


Establishment of Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI) - (submitted.) Kim P: Canadian Foundation for Innovation ($25,000,000 2006 - 2010.)

The Community-Based Materno-Fetal Healthcare Network. *Kim PCW*: *The Ontario Ministry of Health* ($1,877,500 2004 - 2006.)

The Effect of Intestinal Continuity on Circulating Levels of Glucagon-Like Peptide - 2 (GLP-2) in Children. *Wales PW*, Drucker DJ: *University of Toronto, Faculty of Medicine, Dean’s Fund* ($9,983 2004 - 2009.)

**Honours Received**


 división de neurocirugía

Dr. M. Dennis - Professor
Dr. P.B. Dirks - Associate Professor
Dr. J.M. Drake – Professor (Division Head)
Dr. A.V. Kulkarni - Assistant Professor
Dr. J.T. Rutka – Professor
Dr. M. Taylor – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Dirks PB: Division of Neurosurgery, Neuroscience Rounds, University of British Columbia, Vancouver, British Columbia, September 2005. Brain Tumor Stem Cells: At the Roots of Brain Tumor Growth.

Dirks PB: Terry Fox Laboratories/BC Cancer Center Seminar, Vancouver, British Columbia, September 2005. Brain Tumor Stem Cells: At the Roots of Brain Tumor Growth.


Dirks PB: Cleveland Clinic, Cleveland, Ohio, May 2006. Cleveland Clinic Brain Tumor Summit: Brain Tumor Stem Cells.


Dirks PB: Royal College Lecture, Canadian Congress of Neurological Sciences Annual Meeting, Montreal, Quebec, June 2006. Identification of Human Brain Tumor Initiating Cells.


Dirks PB: Carolyn Frye Symposium: Stem Cells and Brain Cancer, Massachusetts General Hospital, Harvard University, Boston, Massachusetts, November 2005. Prospective Identification of Human Brain Tumor Initiating Cells.

Dirks PB: UCLA Symposium: Stem Cells, Pathways, and Cancer: From Biology to Therapy, Los Angeles, California, March 2006. Prospective Identification of Human Brain Tumor Initiating Cells.


Kulkarni AV: Department of Neurosciences, Medical University of South Carolina, Charleston, South Carolina, November 2005. Quality-of-Life Outcomes in Pediatric Neurosurgery.


Rutka JT: Research Update in Neuroscience for Neurosurgeons (RUNN), Woodshole, Boston, Massachusetts, October 2005. Developmental Signaling Pathways and Brain Tumors.


Rutka JT: Hamamatsu University School of Medicine, Hamamatsu, Japan, May 2006. Medulloblastoma - A Quest for Novel Therapeutic Targets.


Rutka JT: Johns Hopkins Department of Neurosurgery, Baltimore, Maryland, January 2006. Medulloblastoma: From a Difficult Past to a Promising Future.


Rutka JT: Nagoya University, Nagoya, Japan, May 2006. Recent Advancements for the Treatment Strategy of Medulloblastoma.


Research and Investigations

Senior Investigator's Name Appears in Italics


Cellular and Molecular Characterization of Cancer Stem Cells in Human Brain Tumors. Dirks PB: Canadian Institutes of Health Research ($229,516 2004 - 2007.)


Role of Hedgehog Signaling in the Pathogenesis of Medulloblastoma. Rutka JT, Taylor MD: National Cancer Institute of Canada ($450,000 2005 - 2008.)

The Determinants of Health in Children with Hydrocephalus. Kulkarni AV, Donnelly R: Canadian Institutes Health Research (CIHR) and Hospital for Sick Children Foundation ($94,536 2005 - 2007.)

The Role of Cytoskeletal GTPases in Astrocytoma Migration. Rutka JT: Canadian Institutes of Health Research ($500,000 2004 - 2009.)

VEGF Polymorphisms in Medulloblastomas. Rutka JT: Brainchild ($25,620 2005 - 2006.)

Honours Received

Drake JM: Donald D. Matson Award, at the American Association of Neurological Surgeons and the Congress of Neurological Surgeons: Sections of Pediatric Neurosurgery, April 2006.


Rutka JT: Recipient of Research Grant Awarded by the Pediatric Brain Tumor Foundation Institute, January 2006.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. B.A. Alman – Professor (Division Head)
Dr. W.G. Cole - Professor
Dr. S. Hopyan - Assistant Professor
Dr. A. Howard - Associate Professor
Dr. U.G. Narayanan - Assistant Professor
Dr. R.B. Salter – Professor
Dr. J.H. Wedge - Professor
Dr. J.G. Wright - Professor

Publications


Invited Visits to Other Hospitals/Universities


Alman BA: International Pediatric Orthopaedic Think Tank(IPOTT), Seville, Spain, September 2005. Patients with Duchenne Muscular Dystrophy Treated with Long-Term Steroids Do Not Require Lower Extremity Surgery.


Wright JG: 5th Annual G. Wilbur Westin Visiting Lectureship, Los Angeles, California, April 2006. 1) Clubfoot Osteotomies, 2) Changing Orthopaedics from Practice-Based Evidence to Evidence Based Practice, 3) Femoral Fracture in Children.


Wright JG: Columbia University Grand Rounds Lecturer, New York, New York, April 2006. Are We Performing Too Few or Too Many Orthopaedic Procedures?


Research And Investigations

**Senior Investigator’s Name Appears in Italics**

A 45-Year Follow-Up Assessment of the Clinical and Radiographic Outcomes of Combined Open Reduction and Innominate Osteotomy for the Late Presenting Developmental Dislocation of the Hip (DDH) in Children Ages 1.5 To 5 Years. *Salter RB: Physicians Services Incorporated* ($22,500 2006.)


Beta-Catenin in Aggressive Fibromatosis: Molecular Pathology and Implications for Therapy. *Alman BA: National Cancer Institute of Canada* ($433,326 2005 - 2008.)


Development and Validation of the Caregiver Priorities & Child Health Index of Life with Disabilities (CP CHILD), a health related quality of life measure for children with severe developmental disabilities. *Narayanan UG, Fehlings D: Paediatric Orthopaedic Society of North America (POSNA)* ($40,000 2004 - 2006.)


Gene Expression of Collagen and Chondroitin Sulphate with CPM. *Alman B, Salter RB: Jose Waltham Fund* ($15,000 2005 - 2006.)


Interdisciplinary Health Research Team in Musculoskeletal Neoplasia: Please note this grant is divided into 4 programs and Dr. Alman is the Primary Investigator of 1 of these 4 programs, entitled;Developmental Pathways in Musculoskeletal Neoplasia. *Bell RS, Alman BA, Andrulis I, Bramwell V, Davis A, Greenberg M, Hill R, Kandel R, Malkin D, Masri B, O’Sullivan B, Turcotte R, and Wunder J: Canadian Institutes of Health Research (CIHR)* ($5,995,000 2001 - 2006.)

Investigating Physician Bias as a Possible Explanation for Gender Disparity In the Utilization of Knee Arthroplasty Surgery. *Borkhoff C, Wright JG: Canadian Arthritis Network* ($9,000 2003 - 2006.)


Modulating Hedgehog and Beta-Catenin Signalling in Osteoarthritis. *Alman, BA: Canadian Institute for Health Research* ($380,000 2006 - 2009.)

Molecular Mechanism of Dupuytren’s Contracture. *Gan B, Alman BA, Howard J: Canadian Institute for Health Research* ($376,000 2003 - 2006.)

Molecular Pathology of Cartilage Neoplasia. *Wunder JS, Alman BA: Canadian Institute for Health Research* ($560,000 2003 - 2008.)

Molecular Pathology of Healing. *Alman BA: Canadian Institute for Health Research* ($423,975 2005 - 2008.)


School Playground Surfacing: A randomized prospective comparison of Injury Rates on Sand versus Wood Chip Surfaces (New Investigator Award.) *Howard AW: Canadian Institute for Health Research* ($250,000 2004 - 2009.)


The Outcome at 40-48 Years after Open Reduction with Innominate Osteotomy of Congenital Hip Dislocation for Patients Aged 1.5 To 4 Years. *Thomas S, Wedge J: The Physicians’ Services Incorporated Foundation* ($22,500 2006 - 2007.)


**Honours Received**

*Alman BA:* Clinical Research Society of Toronto - Senior Investigator Award - given with respect to work done on “The Molecular Mechanisms Responsible for the Deregulation of Cellular Growth Control in Musculoskeletal Tumours,” October 2005.


*Salter RB:* Giant of Biomedical Research, June 2006.


*Wedge JH:* Officer of the Order of Canada, February 2006.
DIVISION OF PLASTIC SURGERY

Dr. H.M. Clarke - Professor
Dr. D.M. Fisher - Assistant Professor
Dr. C.R. Forrest – Professor (Division Head)
Dr. C. Y. Pang - Professor
Dr. J.H. Phillips - Associate Professor
Dr. G.A. Tait – Assistant Professor
Dr. R.M. Zuker - Professor

Publications


Invited Visits to Other Hospitals/Universities

Clarke HM: Departments of Burn Surgery, Neurosurgery and Plastic Surgery, 3rd Faculty of Medicine, Charles University, Prague, Czech Republic, May 2006. (1) Hand Burns and Reconstructive Surgery for Burns in Children, (2) The Management of Obstetrical Brachial Plexus Palsy, (3) Congenital Hand Surgery.


Forrest CR: Division of Plastic Surgery, Montreal General Hospital, McGill University, Resident Day, Montreal, Quebec, June 2006. Case Presentations.


Forrest CR: Resident Teaching Rounds, Division of Plastic Surgery, John’s Hopkins School of Medicine, Baltimore, Maryland, March 2006. Midface Distraction.

Forrest CR: Craniofacial Trauma Conference, Shock Trauma Hospital, University of Maryland, Baltimore, Maryland, March 2006. Optic Neuropathy.

Forrest CR: Division of Plastic Surgery, Montreal General Hospital, McGill University, Resident Day, Montreal, Quebec, June 2006. Pediatric Facial Fractures.

Forrest CR: Grand Rounds Division of Plastic Surgery, John’s Hopkins School of Medicine, Baltimore, Maryland, March 2006. Sagittal Synostosis: It’s Not Just Cosmetic.

Forrest CR: Resident Teaching Rounds, Division of Plastic Surgery, John’s Hopkins School of Medicine, Baltimore, Maryland, March 2006. Secondary Cleft Rhinoplasty.

Forrest CR: Division of Plastic Surgery Rounds, Montreal General Hospital, McGill University, Montreal, Quebec, June 2006. Secondary Cleft Rhinoplasty.


Research And Investigations

*Senior Investigator’s Name Appears in Italics*


Skin Flap Ischemia: Pathology and Pharmacologic Intervention. Pang CY: CIHR ($40,000 2001 - 2006.)
DIVISION OF UROLOGY

Dr. D.J. Bagli - Associate Professor
Dr. W. Farhat - Associate Professor
Dr. A.E. Khoury – Professor (Division Head)
Dr. J.L. Pippi Salle - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

**Bagli DJ:** Northeastern & New England Sections of the American Urological Association, Bermuda, November 2005. Pediatric Debate - Is Deflux the Appropriate Treatment for Reflux?

**Farhat W:** Kuwait Urological Association, Kuwait City, Kuwait, February 2006. Epidemiology of Stones in Pediatric Population.

**Farhat W:** Wake Forest University, Winston-Salem, North Carolina, September 2005. Laparoscopy and Pediatric Urology.

**Farhat W:** Specialty Lecture, Oklahoma City, Oklahoma, January 2006. Laparoscopy in Pediatric Urology: SickKids - Toronto Experience.

**Farhat W:** Kuwait Urological Association, Kuwait City, Kuwait, February 2006. Role of Laparoscopy in Pediatric Urolithiasis.

**Farhat W:** Lab Presentation, Oklahoma City, Oklahoma, January 2006. Search for an Optimal Bladder Substitute.

**Farhat W:** Society for Pediatric Urology, 54th Annual Meeting, Atlanta, Georgia, May 2006. Tissue Engineering in Urology - Where Are We Now?

**Farhat W:** Specialty Lecture, Oklahoma City, Oklahoma, January 2006. What MRI and Tissue Engineering Have In Common?


**Khoury AE:** University of Texas Southwestern Medical Center, Dallas, Texas, November 2005. Impact of Deflux on the Management of Reflux.

**Khoury AE:** University of Texas Southwestern Medical Center (Terry D. Allen Visiting Professorship in Pediatric Urology), Dallas, Texas, November 2005. Surgery for Pediatric Urological Tumors: Insights and Observations from Toronto.


**Pippi Salle JL:** Department of Surgery, University of Cape Town, Red Cross Children’s Hospital, Cape Town, South Africa, August 2005. Grand Rounds “Investigative Approach in Antenatally Diagnosed Hydronephrosis.”

**Pippi Salle JL:** Hospital Bambino Gesu, Rome, Italy, April 2006. Lecture: Update in the Management of Bladder Extrophy in the Newborn.


**Pippi Salle JL:** 3rd International Congress of Urethral Reconstructive Surgery, Madrid, Spain, February 2006. (1) Management of Complex and Redo Hypospadias. (2) Moderator of Live Surgeries Performed by Drs. JM Garat and A Mundy. (3) Instrumentation for Pediatric Urethral Surgery. (4) Round Table: Management of Hypospadias - How Do I Do?

**Pippi Salle JL:** The Children’s Memorial Health Institute, Warsaw, Poland, September 2005. Management of Hydronephrosis.


**Pippi Salle JL:** Hospital Bambino Gesu, Rome, Italy, April 2006. Panel Participation - International Meeting on Anomalies of Sex Differentiation presenting the topic Non-Ablative Dismembered Clitoroplasty: A Potentially Reversible Technique for Feminizing Genitoplasty.

**Pippi Salle JL:** Department of Surgery, University of Cape Town, Red Cross Children’s Hospital, Cape Town, South Africa, August 2005. (1) Participated Urology Weekly Rounds on Case Discussion. (2) Performed 2 demonstrative surgeries on Hypospadias.

**Pippi Salle JL:** The Children’s Hospital Memorial Health Institute, Warsaw, Poland, September 2005. Presented Videos on Bladder Extrophy, Hypospadias Repair and Feminizing Genitoplasty.


Pippi Salle JL: Hospital Bambino Gesu, Rome, Italy, April 2006. Visiting Professor in the Department of Neonatal Surgery.

Research and Investigations

Senior Investigator’s Name Appears in Italics

Biologically Enhanced Fascia Lata Graft for Soft Tissue Repair. Farhat W, Derwin K: Cleveland Clinic Foundation (Biomedical Research and Technology Transfer Program-part of Ohio’s Third Frontier Initiative) ($225,000 2005 - 2008.)


The Role of Hypoxia in Fibroproliferative Bladder Disease. Bagli DJ: National Institutes of Health Research in coordination with NIH O’Brien Centre Grant in Urologic Research awarded to Children’s Hospital in Boston (PI: Dr. Michael Freeman, PhD ($147,774 2004 - 2006.)

The Search for an Optimal Bladder Substitute. Farhat W: The Hospital for Sick Children Foundation and the Institute of Human Development, Child and Your Health - CIHR ($130,000 2004 - 2006.)

Honours Received

The Department of Surgery at Mount Sinai Hospital consists of three major divisions, those being: General Surgery, Orthopaedic Surgery and Urology. Emphases within General Surgery are Colorectal Surgery including IBD and Oncology. Oncology includes colorectal, breast sarcoma and retroperitoneal tumours; and endocrine surgery includes thyroid disease. Within Orthopaedic Surgery, Orthopaedics Oncology, and Reconstructive Orthopaedics are the main foci. Within Urology, the development of the Murray Koffler Urologic Wellness Centre, in addition to a nationally recognized program in Andrology, has now furthered developed clinical research and prevention and biomarkers related to prostate cancer.

### General Surgery

The Division of General Surgery of Mount Sinai Hospital is composed of the following members: Drs. Zane Cohen, Alexandra Easson, Steve Gallinger, Michael Goldberg, Robert Gryfe, Irving Koven, Helen MacRae, Andrea McCart, Robin McLeod, Irving Rosen, Saul Sidlofsky and Carol Swallow. Cross-appointments within the Division include Drs. Jaime Escallon, Wey Leong and David McCready.

The Division continues to focus on four areas of expertise: Colorectal Surgery, Gastrointestinal Oncology, Breast Disease, and Inflammatory Bowel Disease. The Colorectal Surgical programs and the Surgical Oncology programs are accredited without certification by the Royal College of Surgeons of Canada. Both of these programs continue to attract outstanding and international residents.

The Familial Gastro-Intestinal Cancer Registry (FGICR) and the IBD unit have moved into new combined quarters at 60 Murray Street. This digestive diseases clinical research unit is an exemplary multi-disciplinary model being used for clinically related research.

Dr. Alexandra Easson was promoted to Assistant Professor. Dr. Andrea McCart received the Saul Highman Memorial Award in Gene Therapy. Dr. Zane Cohen was the Buie Visiting Professor at the Mayo Clinic, and Dr. Robin McLeod was a Visiting Professor at the Royal College of Surgeons of Glasgow.

Drs. Rob Gryfe, Helen MacRae, Andrea McCart, Robin McLeod and Carol Swallow continue to hold peer-reviewed grants from NCI, NCIC, CIHR, PSI, Crohn’s and the Colitis Foundation of America, Ontario Cancer Research Network and NINDC. In addition, Rob Gryfe received a CIHR Term Grant. Carol Swallow received new operating grants from CIHR, NCIC, and the national Colorectal Cancer Campaign. Andrea McCart received grants from the NCIC, Leukemia and Lymphoma Society of Canada, and the National Colorectal Cancer Campaign. Alexandra Easson received grants from the Dean’s Excellence Fund and the Department of Psycho-Social Oncology at the University Health Network.

### The following positions were held by members of the division:

Dr. Irving Rosen is a board member of the Thyroid Foundation of Canada, Canadian Thyroid Cancer Support Group, T-4 Life, and the Head and Neck Cancer Foundation. Helen MacRae is the D.H. Gales Director of the University of Toronto Surgical Skills Centre at Mount Sinai Hospital, and Alexandra Easson is a member of the Palliative Care Group of the American College of Surgeons. Robin McLeod is a regent of the American College of Surgeons and Andrea McCart was a co-organizer of the Southern Ontario Gene Therapy Meeting for 2005. Carol Swallow is the Chair of Royal College of Physicians and Surgeons of Canada General Surgery Oncology Specialty Committee and the Chair of the Research Committee of the Canadian Association of General Surgeons.

Highlights during the academic year included the division honouring Irv Koven, who retired after 35 years in practice at Mount Sinai Hospital. A dinner was held in his honour and Dr. Henry Shibata from McGill University was invited to present Tri-Hospital Rounds on the topic of Advances in Breast Cancer Surgery Due to Results from Clinical Trials.
The Third Annual Rosen-Rasch Lecture was delivered by Dr. Chris McHenry from Case Western Reserve.

Alexandra Easson and colleagues produced a CD-ROM on “Disclosure of Medical Error: Vignettes for Discussion” for the American College of Surgeons, and she also initiated the inaugural Humanism in Surgery OSCE for evaluating general surgery residents using canMEDS 2006. This was supported by a grant from the Dean’s Excellence Fund.

**Orthopaedic Surgery**

The efforts in Orthopaedic Oncology and Reconstructive Orthopaedic continue. Members of the Division include Jay Wunder, who is the Head of the Division of Orthopaedic Surgery, Peter Ferguson, Allan Gross, David Backstein, Erin Boynton and Bob Bell.

**Significant Activities**

Bob Bell was appointed C.E.O. of the University Health Network. This is a tremendous accomplishment for Bob, and we wish him well in his new venture. Jay Wunder was elected to the Board of Directors of Connective Tissue Oncology which is the foremost international sarcoma research and clinical organization. He also won the Tovee Award for best post-graduate teacher in the Department of Surgery at the University of Toronto, and was chosen as the new Surgeon-In-Chief of Mount Sinai Hospital as of July 1, 2006.

Jay also developed, along with Bob Bell and Peter Ferguson, Tele-medicine Muscular-Skeletal Oncology Teaching Rounds for orthopaedic residents at the University of Toronto, University of Western, and University of Ottawa. He, Bob Bell and the Canadian Sarcoma Group completed publication of the initial series of clinical articles, called the Canadian Randomized Prospective Study, describing a new paradigm shift in treatment for patients with extremity soft-tissue sarcoma based on pre-operative radiation.

Peter Ferguson ranked in the top 10 of under-graduate teachers in the Department of Surgery. He was appointed to the NCIC Clinical Trials Group/Canadian Sarcoma Group Sarcoma Executive. He was a guest speaker at the Canadian Society of Orthopaedic Technologist Annual Meeting, and a moderator at the Canadian Orthopaedic Residents Association Annual Meeting.

Allan Gross received the Order of Ontario. He received the Genzyme International Cartilage Repair Society (ICRS) Cartilage Research Life Time Award 2006, and organized a Zimmer Hands on Hip Revision Course and a G3 Cadaveric Hands On Course.

David Backstein, along with Adam Dubrowski, in the field of surgical education, continued to supervise two Educational research fellows in their work toward achieving a Master’s Degree in Education (Dr. M. Nousianen and W. Goften.)

In David’s capacity as the Director of Undergraduate Education for the Department of Surgery, he implemented a major curricular change for our year three medical students. This addition to the curriculum is called the “Crash Course in Surgery,” and it is a week-long program consisting of technical skills instruction and practice in the Surgical Skills Centre. It also includes an integrated seminar series which augments the technical skills training. Additionally, he organized and ran the 2006 Orthopaedic Undergraduate Week in June 2006 and is re-vamping the evaluative process for undergraduates.

Dr. Boynton has been the consulting physician for the Toronto Blue Jays, the Toronto Maple Leafs, the Toronto Marlies and the Toronto Argonauts. She was the consulting physician for the RBC Cup in Hockey. She spoke at the COA meeting this June, as the keynote speaker for the Women in Orthopaedics Luncheon. Her talk was entitled “Field of Dreams - Some Comments on How to Get There”.

Dr. Boynton has won the Carol Lauren Research Award for her paper entitled “Investigation of the Supraspinatus Muscle and Tendon Architecture in Normal and Full-Thickness Tendon Tears: A Cadaveric and Ultrasonographic Study.”

Numerous grants are held by all members of the division of Orthopaedic Surgery. Their expertise has been sought by organizations internationally and they have been actively presenting at scientific meetings.

**Urology**

The Department of Surgery at Mount Sinai Hospital is very pleased to welcome Dr. Alexandre Zlotta to its faculty and to that of the university. Dr. Zlotta is an internationally renowned Urologic Oncologist who will be appointed as the Director of the Prostate Oncology program of the Koffler Urologic Wellness Centre, which is part of Mount Sinai Hospital. He will have a cross-appointment at the Princess Margaret Hospital, and we are delighted to have him as part of the Mount Sinai Hospital Department of Surgery and the University of Toronto Department of Surgery faculty.
DIVISION OF GENERAL SURGERY

Dr. Z. Cohen - Professor
Dr. A. Easson – Assistant Professor
Dr. M.R. Goldberg - Associate Professor
Dr. R. Gryfe - Assistant Professor
Dr. I.H. Koven - Associate Professor
Dr. H.M. MacRae - Associate Professor
Dr. J.A. McCart - Assistant Professor
Dr. R.S. McLeod – Professor (Division Head)
Dr. I.B. Rosen - Professor
Dr. S. Sidlofsky - Assistant Professor
Dr. C.J. Swallow - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


McLeod RS: World Congress of Gastroenterology, Montreal, QC, September 2005. Is Crohn’s Disease a Contraindication to Perform IPAA?


McLeod RS: Canadian Society of Colon and Rectal Surgeons, Montreal, QC, September 2005. Strictureplasty - How I Do It?


Swallow CJ: Surgical Oncology Network Symposium, Toronto, ON, October 2005. Preoperative Radiation for Rectal Cancer - The New Standard of Care?


Research and Investigations

Senior Investigator’s Name Appears in Italics


Characterizing MSI-H Colorectal Cancer Genotype and Phenotype. Gryfe R: Canadian Institutes of Health Research, Cancer Care Ontario, Eli Lilly Canada, Phase II ($150,000 2005 - 2007.)

Development of A Novel Tumour Specific Vaccinia Virus. McCart JA, Fish EN: National Cancer Institute of Canada ($35,000 2005 - 2006.)


Ductoscopy of Breast Diseases. Leong WL, Easson AM, McCready DM: Princess Margaret Hospital Women’s Committee ($25,000 2004 - 2007.)

Evaluation of Vaccinia Virus Oncolyis in Glioblastoma. McCart JA: University of Toronto, Faculty of Medicine, Grant Miller Cancer Research Grant ($19,126 2003 - 2008.)

Evidence Based Reviews in Surgery. McLeod RS: Ethicon and Ethicon Endosurgery ($25,000 2004 - 2005.)


Perceptions of Professionalism Among Faculty and Trainees in Academic Surgery. Park., Woodrow S, Reznick R, MacRae H: Royal College of Physicians and Surgeons of Canada Medical Education Grant ($24,867 2004 - 2005.)


Ptk4 Expression and Regulation in Human Colorectal Cancer. Swallow CJ: National Colorectal Cancer Campaign ($73,600 2005 - 2006.)


Self-Assessment of Technical Surgical Ability by Medical Student and Its Impact on Training: A Randomized Controlled Study. *DUBROWSKI A, JOWETT HN, LEBLANC V, MACRAE H: Dean’s Excellence Fund for Medical Education* ($28,620 2006.)


Vaccinia as an Oncolytic Therapeutic Virus For CLL. *McCART JA, SPANER D, FOLEY R: The Leukemia and Lymphoma Society of Canada* ($100,000 2005 - 2007.)

**Honours Received**

**Gryfe R:** Phase II Charles Hollenberg Translational Research Senior Fellow/Clinician Scientist Award. Eli Lilly Canada, Cancer Care Ontario, Canadian Institutes of Health Research, July 2005.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. D. Backstein - Assistant Professor
Dr. R.S. Bell - Professor
Dr. E.L. Boynton - Assistant Professor
Dr. P.C. Ferguson - Assistant Professor
Dr. A.E. Gross - Professor
Dr. D. MacIntosh - Associate Professor
Dr. E.A. Silverstein - Assistant Professor
Dr. J.S. Wunder - Associate Professor (Division Head)

Publications


Schreiber D, Bell RS, Wunder JS, O'Sullivan B, Turcotte R, Masri BA, Davis AM: Evaluating Function and Health Related Quality of Life in Patients Treated for Extremity Soft Tissue Sarcoma. Quality of Life Research: May 2006: D01 10.100:


Invited Visits to Other Hospitals/Universities


Backstein D: University of Virginia Grand Rounds, Charlottesville, VA, November 2005. Long-Term Follow-Up of Fresh Osteochondral Allografts of the Knee.

Backstein D: Canadian Undergraduate Surgical Education Committee Semi-Annual Meeting (CUSEC), Banff, AB, December 2005. Surgical Skills Centres for Undergraduate Medical Education.


Backstein D: Zimmer Sales Meeting, Niagara Falls, ON, January 2006. The Mini Midvastus Approach to Total Knee Replacement.

Backstein D: The Canadian Society of Orthopaedic Technologists, Mississauga, ON, April 2006. Total Knee Arthroplasty Sawbones Demonstration.


Ferguson PC: Canadian Orthopaedic Resident’s Association Annual Meeting, Toronto, ON, June 2006. Moderator.

Ferguson PC: Canadian Society of Orthopaedic Technologists, Toronto, ON, April 2006. Orthopaedic Oncology.


Gross AE: Visiting Professor, Rush University Medical Center, Department of Orthopedic Surgery, Grand Rounds, Chicago, IL, August 2005. Fresh Osteochondral Allografts for Post Traumatic Knee Defects.


Gross AE: Northern German Orthopaedic Association Meeting, Hamburg, Germany, June 2006. (1) The Role of Allografts in Revision Arthroplasty of the Femur, (2) Use of Trabecular Metal and Cages in Revision Acetabular Surgery.


Wunder JS: Jaipur Regional Cancer Center, Jaipur, India, December 2005. Overview of Limb Salvage for Malignant Bone Tumors.

Wunder JS: Johns Hopkins Orthopaedic Oncology Faculty, Baltimore, MD, April 2006. Surgical Techniques in Musculoskeletal Oncology.

Wunder JS: The Fifth Princess Margaret Hospital Conference: New Developments in Cancer Management, Toronto Marriott Downtown Eaton Centre, Toronto, ON, September 2005. When To Call The Orthopod.
Research and Investigations

Senior Investigator’s Name Appears in Italics


Hedgehog Signaling in Cartilaginous Neoplasia: Implications for Treatment. Wunder JS, Alman BA: Canadian Institutes of Health Research ($159,332 2003 - 2008.)


Predicting Clinical Outcome in Osteosarcoma Using Microarray Analysis. Wunder JS, He WQ, Andrilis IL: Ontario Cancer Research Network ($140,000 2003 - 2006.)


TMT Acetabular Cup Outcome Study. Gross A, Backstein D: Zimmer Ltd. ($48,000 2003 - 2005.)

Honours Received

Backstein D: Canadian Congress of Neurological Sciences - KG McKenzie Memorial Prize for Clinical Neuroscience Research, June 2006.

Bell RS: Distinguished Service Award, Canadian Orthopaedic Association, June 2006.

Ferguson PC: Zimmer Competition Grant - A Biomechanical Comparison of Techniques of Fixation of Pathologic Fractures of Diaphyseal Humerus, March 2006.


Wunder JS: Bruce Tovee Teaching Award, Department of Surgery University of Toronto, May 2006.
Division of Plastic Surgery

Dr. N.H. McKee - Professor

Publications


Invited Visits to Other Hospitals/Universities

McKee NH: American Association for Hand Surgery, American Society for Peripheral Nerve, American Society for Reconstructive Microsurgery Combined Program, Tucson, AZ, January 2006. Reinnervating Muscle (Instructional Course 1h with Paul Cederna.)

Research and Investigations

Senior Investigator’s Name Appears in Italics

Creating a User Friendly Interface for the “Helping Hand.” McKee NH, Agur A, Singh K, Fiume E, Oliver M: Canadian Society for Surgery of the Hand ($10,000 2006 - 2007.)
DIVISION OF UROLOGY

Dr. K. Jarvi - Professor (Division Head)
Dr. C. K. Lo - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Honours Received

Lo KC: Canadian Urologic Association Scholarship Foundation Award ($40,000), July 2005.
The past year has been a challenging time for the surgical staff at St. Joseph’s Health Centre. Along with the challenges, however, there have been some great opportunities for expansion and growth. Challenges have come mainly in the form of budget constraints, in the environment of rising costs for surgical equipment and new technology. Opportunities have come from recruitment of new surgeons and new money associated with Ministry initiatives for Wait Time Funding.

In the Division of General Surgery, Dr. Tom Harmantas was reappointed for a second five-year term as Division Head. We recruited Dr. Paul Sullivan to join our group and strengthen our MIS Program. The addition of Dr. Sullivan gives us three focused MIS surgeons and helps to improve the MIS Fellowship Program. The Division of General Surgery is now involved in two University of Toronto Fellowship Programs – MIS and Surgical Oncology.

In the Division of Plastic Surgery, Dr. Kyle Wanzel joined the group in January of 2006. Dr. Wanzel will be doing general plastic surgery with a focused interest in breast reconstruction. Dr. Robert Knowlton retired from active practice in 2005. We wish to thank Dr. Knowlton for his tremendous contributions to the Department over the years.

In Thoracic Surgery, Dr. Ernie Spratt retired from active surgical practice in July of 2005. He continues to be involved on a part-time basis, assisting with difficult cases and running a clinic. Dr. Spratt has made a huge contribution to the Department of Surgery at St. Joseph’s Health Centre, having been Division Head of General and Thoracic Surgery, Surgeon-in-Chief, and Chief of Staff. He has always been extremely focused in teaching and has acted as a mentor to many of the surgeons in our Department.

Dr. Chris Compeau was promoted from Lecturer to Assistant Professor.

In the Division of Urology, Dr. Umesh Jain has been appointed as Division Head as of March 2006.

The Division of Vascular Surgery was relocated to the UHN in January of 2006.

The Dr. Ernie Spratt Teaching Award for the most outstanding surgical teacher was started this year and the first recipient of the award was Dr. Lloyd Smith. This will be an annual award given to a member of the Department as selected by the resident and fellow staff as being the best surgical teacher.

We look forward to the next year to continue developing our Surgical Program, focusing on teaching excellence in community surgery.
**General Surgery**

Dr. T. Harmantas – Assistant Professor (Division Head)
Dr. R. Hart - Lecturer
Dr. D. Lindsay - Lecturer
Dr. L. C. Smith – Assistant Professor
Dr. P. Sullivan - Lecturer

**Orthopaedic Surgery**

Dr. A. ElMaraghy - Lecturer
Dr. M. Kliman - Lecturer
Dr. M. Roscoe - Lecturer (Division Head)
Dr. G. Vincent - Lecturer
Dr. M. Wood - Lecturer

**Plastic Surgery**

Dr. C. Fielding - Lecturer
Dr. L. Kasrai – Assistant Professor
Dr. R. Levine – Associate Professor (Division Head)

**Thoracic Surgery**

Dr. C. Compeau – Assistant Professor (Division Head)
Dr. Y. Shargall – Assistant Professor
Dr. E. Spratt – Associate Professor

**Urology**

Dr. U. Jain (Division Head)
Dr. A. Marcuzzi - Lecturer
Dr. A. McLean
Dr. J. H. Wait - Lecturer
The Department of Surgery at St. Michael’s Hospital has had an exciting and fulfilling year. In November 2005, we received the announcement of a generous donation to construct the Li Ka Shing Knowledge Institute which would be the first of its kind in North America. The Institute will bring together the worlds of research, education and patient care to create a unique research environment aimed at improving patient care.

Dr. Nancy Baxter has joined the Division of General Surgery from the University of Minnesota, and has strengthened both the clinical and research efforts in colorectal disease, particularly colorectal cancer. The Department has also had the pleasure of welcoming Drs. Vern Campbell and Wayne Tanner to the Division of Vascular Surgery. With the move completed, we have become one of the two Centres of Excellence in Vascular Surgery in the Greater Toronto Area. Dr. Yves LeClerc has gone to St. Mary’s Hospital in Kitchener. We also recognize the retirement of Dr. Harley Smyth from clinical practice at our hospital. His contributions to pituitary surgery have been immense and have influenced an entire field of surgical practice.

St. Michael’s Hospital was once again cited as the most popular institution for clinical clerk training for students at the University of Toronto. Further, our Faculty has been recognized for excellence in teaching by receiving a number of awards, honours and leadership positions in education. Dr. Bob Mustard received the St. Michael’s Hospital, William Horsey Award for postgraduate education, and Dr. Ken Pace was awarded the St. Michael’s Hospital Donald J. Currie Teaching award for undergraduate teaching. Dr. David Latter distinguished himself through his leadership in the Task Force for Fellowship training. Finally, Dr. John Bohnen was awarded the Best Lecturer in the Principles of Surgery Seminar Series.

As we move into the next academic year, we look forward to opportunities for growth in our Department across the range of Specialties with a view to enhancing our academic and clinical profile nationally and internationally.
DIVISION OF CARDIAC SURGERY

Dr. D. Bonneau - Associate Professor
Dr. L.E. Errett - Associate Professor (Division Head)
Dr. M. Keith – Assistant Professor
Dr. D. Latter – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Keith M: Canadian Foundation for Dietetic Research - Sponsors Breakfast, Toronto, ON, May 2006. The Prevalence of B Vitamin Deficiency in Hospitalized Patients with CHF.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Does Nutrient Supplementation Influence Cardiac Structure, Function and Survival by Altering Energy Metabolism? Keith M, Briet F, Stewart D, David Mazer CD: Canadian Institutes of Health Research ($156,000 2005 – 2007.)

DIVISION OF GENERAL SURGERY

Dr. N. Ahmed - Assistant Professor
Dr. J. Ali – Professor
Dr. N. Baxter - Assistant Professor
Dr. J.M.A. Bohnen - Professor
Dr. M.J. Burnstein - Associate Professor (Interim Division Head)
Dr. J. Koo – Associate Professor
Dr. R. Mustard – Assistant Professor
Dr. O.D. Rotstein - Professor
Dr. K. Szaszi – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

Bohnen JMA: Core Health Services Inc., Toronto, ON, February 2006. Managing Intra-Abdominal Surgical Infections: Developing Antimicrobial Education.


Marshall JC: 10th Toronto Critical Care Medicine Symposium, Toronto, ON, October 2005. (1) Apoptosis in Critical Illness, (2) Selective Decontamination of the Digestive Tract (SDD): Why Don’t We Use It?


Marshall JC: Visiting Professor, R. Adams Cowley Shock/Trauma Center, University of Maryland, Baltimore, MD, March 2006. (1) Cellular Mechanisms of Impaired Neutrophil Apoptosis in Sepsis, (2) Targeting the Host Response in Trauma and Sepsis: Where Do We Stand?


Marshall JC: 2nd International Congress, German Sepsis Society, Weimar, Germany, September 2005. (1) Measuring Endotoxin in Critically Ill Patients, (2) From SIRS to PIRO.


Marshall JC: 5th International Sepsis Forum Colloquium on Host-Microbial Interactions in Critical Illness, Toledo, Spain, June 2006. (1) The Micro-Organism Is Irrelevant to the Host Response in Sepsis: Pro, (2) Host-Microbial Interactions In Sepsis: Adversarial or Adaptive?


Marshall JC: Visiting Professor, Department of Trauma and Acute Medicine, Osaka University Hospital, Osaka, Japan, March 2006. Host-Microbial Interactions in Critical Illness.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A Phase, 3, Multi-Center, Randomized, Placebo-Controlled, Double-Blind, Three-Arm Study to Evaluate the Safety and Efficacy of Tifacogin (Recombinant Tissue Factor Pathway Inhibitor) Administration in Patients with Severe Community-Acquired Pneumonia. Marshall, JC: Chiron Ltd. ($95,000 2004 - 2006.)


Cellular Mechanisms of Lipopolysaccharide-Induced Lung Injury Following Shock. Rotstein OD: Canadian Institutes of Health Research ($451,715 2000 - 2005.)


New Model of Surgery Training. Bohnen J, Reznick R: Ontario Ministry of Health and Long Term Care ($50,000 2006 – 2007.)


Re-Engineering the Canadian Critical Care Trials Group. Cook DJ, Marshall JC: Canadian Institutes for Health Research Workshop Grant ($52,500 2005 – 2006.)


Honours Received

Bohnen JMA: Best Lecturer, Principles of Surgery Postgraduate Lecture Series, Department of Surgery, June 2006.

Bohnen JMA: Certificate of Merit Award, Canadian Association for Medical Education, February 2006.

Bohnen JMA: Lois H. Ross Resident Advocate Award, Professional Association of Interns and Residents of Ontario (PAIRO), March 2006.
DIVISION OF NEUROSURGERY

Dr. M.D. Cusimano - Professor
Dr. H.J. Ginsberg - Assistant Professor
Dr. P.J. Muller - Professor
Dr. R.G. Perrin - Associate Professor
Dr. W.S. Tucker - Associate Professor (Interim Division Head)

Publications


Invited Visits to Other Hospitals/Universities


Cusimano MD: Caribbean Neurosciences Symposium, Jamaica, February 2006. Invited lecturer on “Details, Applications and Complication Avoidance in the Orbitozygomatic Approach” and “Update on the Management of Pituitary Tumors.”


Research and Investigations

Senior Investigator’s Name Appears in Italics

A Randomised, Double-Blind, Placebo-Controlled, Multi-Centre, Dose Escalation Study to Evaluate the Safety and Preliminary Efficacy of Recombinant Factor VIIa (NovoSeven/NiaStase) in Subjects with Brain Contusions (Phase 2.) Site Principal Investigator, Cusimano MD, Baker A, Ginsberg H, Bruce G, Muller P, Muradali D, Tucker W, Perrin R: Novo Nordisk Canada Inc. (Mississauga, ON) ($75,000 2005 – 2007.)


Exploring the Relationship Between Caregiver and Child Safety Knowledge, Attitudes and Behaviours and Injury Occurrence in Children. Cusimano MD: Canadian Institutes of Health Research (CIHR) ($100,000 2005 – 2006.)


DIVISION OF ORTHOPAEDIC SURGERY

Dr. H. Ahn - Lecturer
Dr. E.R. Bogoch - Professor
Dr. T.R. Daniels - Associate Professor
Dr. M.D. McKee - Associate Professor
Dr. E.H. Schemitsch - Professor – (Division Head)
Dr. J. Waddell – Professor
Dr. D. Whelan - Lecturer

Publications


Invited Visits to Other Hospitals/Universities

Bogoch ER: Regional Osteoporosis Board, Toronto, ON, April 2006. Current Status of Post Fracture Care in Ontario.


Daniels TR: COA 2006, Toronto, ON, June 2006. (1) Ankle Arthroplasty vs. Ankle Arthrodesis for End-Stage Ankle Arthritis: A Functional Comparison (Daniels TD, Duggal N, Redekop S, Yeung M), (2) Off-Loading Neuropathic Ulcers Using A Fiberglass Cast with A Metal Stirrup (Tamir E, McLaren AM, Daniels TD.)


Daniels TR: COA 2006, Toronto, ON, June 2006. Paediatric/Foot & Ankle Sessions (Moderator.)


McKee MD: 62nd Annual Meeting of the Canadian Orthopaedic Association, Toronto, ON, June 2006. (1) ICL - How to Use Quality Rounds to Gain MOC Credits, (2) ICL - Upper Extremity Cases, (3) COTS - The Case for Pinning of Distal Radius Fractures, (4) COFAS - Bone Substitutes.


McKee MD: Visiting Professor - Wayne State University/Henry Ford Hospital, Detroit, MI, November 2005. The Evolution of Treatment for Displaced Fractures of the Clavicle.


Schemitsch EH: Hennepin County Medical Center 35th Annual Orthopaedic and Trauma Seminar, Minneapolis, MN, November 2005. Robert Merkow Memorial Lecturer. (1) Fractures of the Forearm: Current Thoughts, (2) Biology of Intramedullary Nailing.

Research and Investigations

Senior Investigator’s Name Appears in Italics


A Prospective RCT Investigating the Effect of a Novel Reamer Aspirator on the Incidence of Fat Embolism During IM Nailing of Femoral Shaft Fractures. McKee MD, Schemitsch EH, Bhandari M, Davis E: Orthopaedic Trauma Association ($65,000 2005 - 2007.)

A Randomized Controlled Trial of 1st MTP Joint Fusion Compared to 1st MTP Joint Hemiarthroplasty in Severe Hallux Rigidus. Lau JTC, Daniels TR, Waddell JP, Mahomed N: PSI ($36,500 2005 - 2006.)

A Randomized Trial Comparing a Novel Reamer Irrigator Aspirator to Standard Reaming for Treatment of Femoral Shaft Fractures. Schemitsch EH, McKee MD: Orthopaedic Trauma Association ($65,000 2006 - 2008.)

A Randomized Trial of Fluid Lavage in the Treatment of Open Wounds (FLOW) Pilot Study. Bhandari M, Petrisor B, Schemitsch EH: Physicians Services Incorporated ($100,000 2005 - 2006.)


A Randomized Trial of Fluid Lavage in the Treatment of Open Wounds. Bhandari M, Petrisor B, Schemitsch EH: Orthopaedic Trauma Association ($65,000 2006 - 2008.)

Ankle Arthrodesis versus Ankle Arthroplasty for End-Stage Ankle Arthritis: A Prospective Functional Comparison. Daniels TR, Duggal N: American Orthopaedic Foot and Ankle Society ($10,000 2005 - 2006.)

Assessment of a Computerized Navigation System in a Cadaveric Lower Extremity Model. Schemitsch EH: Stryker ($20,000 2006 - 2007.)

Biomechanical and Finite Element Analysis of the Birmingham Hip Resurfacing. Schemitsch EH: Smith and Nephew ($50,000 2006 - 2007.)

Cell-Based VEGF Gene Transfer to Promote Fracture Healing. Schemitsch EH, Li R, VonSchroeder H, Stewart D: Physicians' Services Incorporated Foundation ($86,000 2005 - 2007.)

Cell-Based VEGF Gene Transfer to Promote Fracture Healing. Schemitsch EH, Li R, VonSchroeder H, Stewart D: University of Toronto ($10,000 2005.)

Development of a Fellowship in Surgical Navigation. Schemitsch EH: Stryker ($50,000 2006 - 2008.)

Development of an International Hip Fracture Research Collaborative. Bhandari M, Guyatt G, Schemitsch EH, Sanders D: Canadian Institutes of Health Research ($25,000 2005 - 2006.)

Development of Clinical Trials Infrastructure. Schemitsch EH: Orthopaedic Research and Education Fund ($150,000 2003 - 2006.)

Fibreglass Cast with Metal Stirrup - A New Treatment for Heel Ulcers and Large Midfoot Neuropathic Ulcers. Daniels TR, Tamir E: Zimmer ($8,300 2006.)

GEMOS1 Clinical Trial. Daniels T: BioMimetic Therapeutics Inc. ($100,000 2006.)


Martin Family Centre for Arthritis Care Research. Bogoch ER, Shupak R, Johnstone B: Martin Family ($500,000 2000 - 2005.)

Osteoporosis Care for Fragility Fracture Patients. Bogoch ER: Martin Family Foundation ($100,000 2006.)


Predictors of Diability Following Revision Knee Arthroplasty. Davis A, Garbuz D, Gignac M, Kiss A, Mahomed N, Gross A, Schemitsch EH: Canadian Institutes of Health Research ($284,640 2005 - 2010.)


Trial to Re-Evaluate Ultrasound in the Treatment of Tibial Fractures. Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D: Canadian Institutes of Health Research ($72,683 2004 - 2006.)


Honours Received


Daniels TR: Second Prize Poster, AOFAS Summer Meeting in Boston, MA: Wound Care Research Project: Outpatient Project (Daniels TR, Teague L, Beaton D, Inrig T, July 2005.)


McKee MD: Queens University, Belfast, Northern Ireland, UK. Trauma and Acute Care Conference “The Radiographic Quantification of Scapular Winging and Its Correlation to Functional Outcome Following Mal-Union or Non-Union of Displaced Clavicular Shaft Fractures” - First Prize (Best Presentation of Conference), March 2006.

Schemitsch EH: Host of 1st Ken Johnson Memorial Travelling Fellow (Max Talbot), October 2005.

Schemitsch EH: Lecoq Lecture, University of Washington, Seattle, WA, October 2005.

Schemitsch EH: Robert Merkow Lecture, Hennepin County Medical Centre, Minneapolis, MN, November 2005.
DIVISION OF PLASTIC SURGERY

Dr. J.L. Mahoney - Associate Professor (Division Head)
Dr. M. Musgrave – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

Mahoney JL: Niagara Region Wound Care Symposium, Niagara Falls, ON, April 2006. Complex Wounds: Wound Management.


Mahoney JL: Halton Peel Doctors on Tour, Santiago, Chile, February 2006. Wound Care.

Research and Investigations

Senior Investigator’s Name Appears in Italics

A Multi-Centre in Market Evaluation of Acticoat Moisture Control. Mahoney JL, Teague L: Smith & Nephew ($10,000 2005 - 2006.)
DIVISION OF UROLOGY

Dr. R.J. Honey - Associate Professor (Division Head)
Dr. K.T Pace - Assistant Professor
Dr. R.J. Stewart - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Research and Investigations

Senior Investigator’s Name Appears in Italics

The Impact of Laparoscopic Surgery on Renal Physiology. Pace KT, Stewart RJ, Honey RJD, Hare G, Blew B: Physician Services Incorporated ($170,000 2004 - 2006.)

DIVISION OF VASCULAR SURGERY

Dr. F.M. Ameli – Associate Professor (Division Head)
Dr. V. Campbell - Lecturer
Dr. A.G. Lossing – Associate Professor
Dr. W. Tanner - Lecturer
The Hospital underwent a Government initiated demerger process with the Women’s College Hospital. This process has given the Institution new direction, a new logo, new colours and returned its previous name. Coincident with the Government’s decision were the announcements of plans to create a Centre of Excellence for hip and knee surgery at the Wellesley Street Site, and to fund capital redevelopment at the Bayview Site. William Holland donated $20 million to the Institution for the development of the Holland Orthopaedic and Arthritic Centre of Excellence of Hip and Knee Surgery. The Divisions of Cardiac and Vascular Surgery were combined under Dr. Fremes’ leadership, and the Institution began performing endovascular arterial reconstructive procedures (EVAR) with Foundation funds raised by Dr. Maggisano.

New Staff

Anna Gagliardi, PhD, was appointed as a Scientist in the Division of General Surgery. Anna will employ both quantitative and qualitative methods to explore factors influencing the effect of organization and delivery of cancer services. Talat Chughtai was appointed as a Clinical Associate in the Division of General Surgery. Fuad Moussa joined the Department as a Clinical Associate in the Division of Cardiac and Vascular Surgery. Ted Tufescu and Tajedin Getahun were appointed as Clinical Associates in the Division of Orthopaedic Surgery.

Appointments and Promotions

Mitch Brown was promoted to Associate Professor in the Division of Plastic Surgery, recognizing his scholarly activity in the field of breast reconstruction. Robert Maggisano was promoted to Associate Professor recognizing his long-standing contributions to the field of vascular reconstruction. David Rowed was promoted to Professor, recognizing his scholarly activity directed towards the management of cerebellopontine angle neoplasms. John Semple was promoted to Professor, recognizing his contributions in the areas of tissue engineering and breast reconstruction. Sandro Rizoli had a successful four-year review and was promoted to the Active Staff category.

Hans Kreder was appointed as the inaugural Marvin Tile Chair in Orthopaedic Surgery, Head of the Division of Orthopaedic Surgery, and Medical Leader of the Holland Musculoskeletal Program.

Calvin Law received an adjunct appointment to HPME.

Educational Activity and Awards

John Murnaghan received the Helen P. Batty Faculty Development Award for Program Excellence. Robert Cartotto won a 2006 PAIRO Excellence in Clinical Teaching Award. Sender Herschorn was recognized at Gallie Day for completion of his term as Chair of the Departmental Continuing Education Committee. Robin Richards received the Bruce Tovee Award for Undergraduate Teaching at Gallie Day. Dr. Karen Cross, supervised by Dr. J. Fish, received the 2006 OMA Resident Achievement Award. Ron Kodama was awarded the Urology Divisional AW Bruce Undergraduate Teaching Award.

Sender Herschorn received a Peters-Boyd Clinical Teaching/Supervision Award. Fred Brenneman received a Peters-Boyd Academy Award for excellence in continuing education. Terry Axelrod, Paul Binhammer, Richard Holtby, Robin Richards and Stewart Wright spoke at the 22nd Annual Upper Extremity Update. Andy Smith directed and Frances Wright helped to organize the 2005 Update on Surgical Oncology. Claire Holloway, Calvin Law and May Lynn Quan also participated in this event. Andy Smith contributed to the development of the Annual Update in General Surgery.

Research Activity and Awards

Sandro Rizoli was awarded the 2006 Royal College Medal Award in Surgery for his work on the immunomodulatory effects of hypertonic saline resuscitation. Robert Nam was awarded the Langer Prize at Gallie Day as an outstanding graduate of the Surgeon-Scientist Program, who shows the greatest promise for a career in academic surgery.
Steve Femes received funding from the Heart and Stroke Foundation. Robert Nam received a CHIR New Investigator Salary Award and CIHR and NCIC operating grants. Vasu Venkateswaran received independent peer review funding from the Prostate Cancer Research Foundation of Canada and CIHR funding for three years. Laurie Klotz continued to attract funding for multiple studies relating to prostate cancer and was elected as Chair of the World Urologic Oncology Federation and Vice-President of the Canadian Urological Association.

Drs. Holloway, Wright and Quan received funding from the Ontario Cancer Research Network. Anna Gagliardi and Sharon Sharir received Dean’s funding. Angel Arnaout, supervised by Dr. C. Holloway and others, received the inaugural Breast Journal Award at the American Society of Breast Surgeons.

Paul Marks received funding for a study of microfracture and repair of focal articular cartilage lesions on the femoral condyle. Joel Fish received PSI funding for the Hemodynamic Monitoring of Acute Burn Injuries using Near Infrared Spectroscopy. The staff of the Burn Unit including Manuel Gomez, M. Beveridge, J. Fish and R. Cartotto had multiple presentations at the Annual Meeting of the American Burn Association.

Other Awards and Activities
The Department underwent a five-year review by Dr. John Denstedt, Professor and Chair of the Department of Surgery at the University of Western Ontario. The Department’s leadership was renewed with constructive advice from the review. Dr. Denstedt also reviewed the Division of Urology.

Hugh Cameron received the American Academy of Orthopaedic Surgeon’s Award of Excellence for his presentation on modularity in total hip arthroplasty. Robert Maggisano received the Professional Excellence Award of the Canadian Italian Business Association. Drs. J. Cameron and R. Nam received Marvin Tile Awards for their contributions to the Department. Drs. Daniel Penello, Peter Stotland, Hany Sawires and Bryan Wells received Harrison Teaching Awards. Marvin Tile was appointed Chair of the Governing Council of the Sunnybrook Foundation, and Robin Richards and Hamilton Hall remain active on the Board.

The Trauma Program, Canada’s largest, led by Fred Brenneman was reviewed by the Trauma Association of Canada and accredited with many accolades. Sherif Hanna continued his leadership of the Surgical Oncology Programs. Sender Herschorn underwent a five-year review as Chair of the University Division of Urology and was re-appointed.

Homer Tien was deployed for a tour of duty in support of Canada’s mission in Afghanistan. Talat Chughtai traveled to Pakistan to assist in the recovery effort following a massive earthquake that struck on October 8, 2005. Peter Chu served as missionary general surgeon at the Galmi Hospital in Niger and gave five lectures at the 27th Brackenhurst CME Conference for Missionary Doctors serving in Africa.

Retirements and Sabbaticals
Hamilton Hall, having concluded his surgical practice, remained active in teaching and was appointed Executive Director of the Canadian Spine Society. Joel Finklestein was on sabbatical at the Hadassah Medical Centre in Israel, and Drs. J. Fish and M. Beveridge announced plans for sabbaticals.

Conclusion
As the year concluded, a Search was underway for the Medical Leader of the Trauma and Critical Care Program and capital redevelopment of the Emergency Room began. The Foundation fundraising campaign reached the $100 million milestone and plans were well underway for the construction of ambulatory operating rooms at the Bayview Campus, with initial funding from the Holland initiative. Sunnybrook’s future seems bright and its Department of Surgery is appreciative and proud of the role it plays in the provision of surgical service to patients in the Toronto Central Local Health Integrated Network and the Province as a whole.
DIVISION OF CARDIAC AND VASCULAR SURGERY

Dr. G.T. Christakis – Professor
Dr. G. Cohen - Assistant Professor
Dr. S.E. F remes – Professor (Division Head)
Dr. B.S. Goldman – Professor
Dr. D. Kucey – Assistant Professor
Dr. R. Maggisano – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

Christakis GT: KMH Cardiology & Diagnostic Centres, Mississauga, ON, April 2006. Expediting Access to Heart Surgery and Improving Patient Care.

Christakis GT: 10th Annual Medical Disease Management Symposium, Huntsville, ON, June 2006. Expediting Access to Heart Surgery and Improving Patient Care.


Goldman BS: Medtronic of Canada Ltd., Mississauga, ON, December 2005. Dr. Wilfred Bigelow.

Goldman BS: Ryerson University, Toronto, ON, November 2005. Healthy Hearts.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Canadian Cardiovascular Outcomes Research Team. Tu, J, Fremes SE: CIHR - Interdisciplinary health research team ($5,000,000 2001 - 2005.)


Multicentre Radial Artery Patency Study: 5-Year Results. Fremes, SE, Multi-Centre Radial Artery Study Participants: Canadian Institutes for Health Research ($1,000,000 2002 - 2006.)

The Role of Genetic Polymorphisms in Modulating the Efficacy of N-Acetylcysteine in Preventing Post Cardiopulmonary Bypass Renal Dysfunction. Guru V, Fremes SE: Physicians Services Incorporated Foundation ($20,000 2005 - 2006.)

DIVISION OF GENERAL SURGERY

Dr. F.D. Brenneman - Associate Professor
Dr. P. Chu - Assistant Professor
Dr. A. Gagliardi – Assistant Professor
Dr. S.S. Hanna - Associate Professor
Dr. G.Y. Hiraki - Assistant Professor
Dr. C. Holloway – Assistant Professor
Dr. L. Lickley – Professor
Dr. M.L. Quan - Assistant Professor
Dr. S. Rizoli - Assistant Professor
Dr. T.M. Ross – Associate Professor
Dr. A. Smith - Associate Professor (Division Head)
Dr. G.A. Taylor - Associate Professor
Dr. H.C. Tien - Lecturer
Dr. L. Tremblay – Assistant Professor
Dr. F. Wright – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Brenneman FD: Annual Scientific Meeting of the Trauma Association of Canada, Banff, AB, March 2006. Debate: The Secondary Abdominal Syndrome: Latrogenic or Unavoidable?

Brenneman FD: University of British Columbia, Vancouver, BColumbia, May 2006. DSTC (Definitive Surgical Trauma Care) course. Course Instructor.


Brenneman FD: Trauma Nursing Conference 2006 (Course Co-Director), Toronto, ON, February 2006. Lessons Learned.


Brenneman FD: McMaster University, Hamilton, ON, June 2006. McMaster University General Surgery Resident Seminar. (1) Inguinal Hernia and Laparoscopic Ventral Hernia Repair, (2) Trauma Practice Oral Exam Review.

**Brenneman FD:** Johnson & Johnson Professional Education Program Advanced Hernia Repair Conference, Mt. Tremblant, QC, February 2006. (1) Open Inguinal Hernia Repair Techniques, (2) Open Ventral Hernia Repair.

**Brenneman FD:** Johnson & Johnson Professional Education Program, Calgary, AB, April 2006. Open Ventral Hernia Repair In The Complicated Patient.

**Brenneman FD:** Thunder Bay Regional Health Sciences Centre, Thunder Bay, ON, August 2005. Operative Techniques of Laparoscopic Ventral Hernia Repair.

**Brenneman FD:** Abbotsford General Hospital, Abbotsford, BC, November 2005. Operative Techniques of Laparoscopic Ventral Hernia Repair.

**Brenneman FD:** Penticton General Hospital, Penticton, ON, December 2005. Operative Techniques of Laparoscopic Ventral Hernia Repair.

**Brenneman FD:** CAGS Postgraduate Course in Trauma, Canadian Surgery Forum, Montreal, QC, September 2005. Penetrating Neck Trauma.

**Brenneman FD:** Rouge Valley Centenary Hospital Emergency Department Grand Rounds, Scarborough, ON, December 2005. Penetrating Trauma - Gunshot Wounds and Stab Wounds.


**Brenneman FD:** Austrauma 2006 Westmead Trauma Conference, Sydney, Australia, March 2006. Severe Liver Trauma.

**Brenneman FD:** Austrauma 2006 Westmead Trauma Conference, Sydney, Australia, March 2006. The Role of the TTL.

**Brenneman FD:** Thunder Bay Regional Health Sciences Centre, Thunder Bay, ON, May 2006. Thunder Bay Trauma Conference keynote speaker. Penetrating Trauma.

**Brenneman FD:** Trauma Association of Canada, Halifax, NS, September 2005. Trauma Association of Canada Accreditation of Queen Elizabeth II Health Sciences Centre, IWK Paediatric Hospital, Antigonish Hospital.


**Hanna SS:** Southwest Surgical Association, London, ON, November 2005. Surgical Management of Metastatic Colorectal Cancer.

**Hanna SS:** Southwest Surgical Association, London, ON, November 2005. Surgical Resources and Practice in China - A Visitor’s Perspective.

**Law CHL:** North York General Hospital, Toronto, ON, February 2006. Challenges in the Management of Gastrointestinal Carcinoid Syndrome.

**Law CHL:** Sunnybrook & Women’s College Health Sciences Centre, Toronto, ON, September 2005. Multidisciplinary Team Care in Hepatobiliary and Pancreatic Surgical Oncology.

**Lickley L:** Ontario Breast Screening Program Public Meeting sponsored by the three Peterborough Units, Peterborough, ON, November 2005. Keynote Speaker: “Breast Cancer Surgery and Breast Cancer Prevention”.

**Smith AJ:** Northeastern Ontario Regional Cancer Conference, Sudbury, ON, November 2005. Adopting Laparoscopic Colon Cancer Surgery in Ontario.

**Smith AJ:** Thunder Bay Regional Cancer Centre, Thunder Bay, ON, March 2006. Adopting Laparoscopic Colon Cancer Surgery in Ontario.

**Smith AJ:** Canadian Parliament (Committee Meeting), Ottawa, ON, May 2006. Colorectal Cancer: The Prevention Imperative.


Smith AJ: Northeastern Ontario Regional Cancer Conference, Sudbury, ON, November 2005. Impact of LN Count on Survival in Stage II (node negative) CRC.

Smith AJ: Cancer Care Ontario, Surgical Oncology Program Retreat, Toronto, ON, October 2005. It’s Not About the Lymph Nodes.

Smith AJ: Thunder Bay Regional Cancer Centre, Thunder Bay, ON, March 2006. It’s Not About the Lymph Nodes.

Smith AJ: Surgical Oncology Program, Cancer Care Ontario, Toronto, ON, June 2006. Laparoscopic Colorectal Cancer Resection Education Program.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Blood Transfusion and Colorectal Cancer Outcomes in the Universal Leukoreduction Era. Law CHL, Cheang TSE: Canadian Institute of Health Research (CIHR) - Canada Graduate Scholarships Master’s Awards (A) ($17,500 2005 - 2006.)

Career Scientist Award: Surgical Oncology Outcomes: Determining Quality Indicators, Practice Patterns and Outcomes of Cancer Surgery in Ontario. Law CHL: Ministry of Health and Long Term Care of Ontario ($301,875 2004 - 2009.)


Improving Colon Cancer Staging Through a Multimodal Knowledge Translation Program Aimed at Surgeons and Pathologists. Smith AJ, Ryan DP, Wright FC, Law CHL, DePetrillo D, Khalifa M: Change Foundation ($100,000 2002 - 2006.)


Pre-Hospital Trauma Training for Special Operations Medical Technicians. Tien H, Martineau L, Brenneman F: Department of National Defence ($25,976 2005 - 2006.)


The Role of Thromboelastography in Trauma. Rizoli S, Tien H, Tremblay L, Reis M: Defence Research and Development Canada ($244,388 2006 - 2008.)


Trauma Care at a Role 3 Canadian Forces Hospital in Afghanistan. Tien H, Redelmeier R, Brenneman F, Shek P: Department of National Defence, Canada ($40,000 2006.)

Honours Received


Smith AJ: OHA Innovation in Clinical Practice Team Award, November 2005.
DIVISION OF NEUROSURGERY

Dr. M. Fazl - Assistant Professor
Dr. F. Pirouzmand - Assistant Professor
Dr. D.W. Rowed - Professor
Dr. M.L. Schwartz – Professor (Division Head)

Publications


Research and Investigations

Senior Investigator’s Name Appears in Italics

PRECISE Study. Pirouzmand F: NeoPharm ($100,000 2004 - 2006.)
DIVISION OF ORTHOPAEDIC SURGERY

Dr. T.S. Axelrod - Associate Professor
Dr. H.U. Cameron - Associate Professor
Dr. J.C. Cameron – Assistant Professor
Dr. G. Fernie - Professor
Dr. J. Finkelstein – Associate Professor
Dr. M.H. Ford - Assistant Professor
Dr. J.D. Gollish - Assistant Professor
Dr. H. Hall - Professor
Dr. R.M. Holtby - Assistant Professor
Dr. H.J. Kreder - Associate Professor (Division Head)
Dr. B.E. Maki - Professor
Dr. B. W. Malcolm - Assistant Professor
Dr. P.H. Marks – Associate Professor
Dr. J.J. Murnaghan - Assistant Professor
Dr. R.R. Richards - Professor
Dr. J. Schatzker - Professor
Dr. D.G.S. Stephen - Associate Professor
Dr. M. Tile – Professor
Dr. I. Weller – Assistant Professor
Dr. C. Whyne – Assistant Professor
Dr. C.S. Wright - Assistant Professor
Dr. A.J.M. Yee - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Gollish JD: Hamilton Health Sciences Centre: Optimizing Outcomes for Joint Arthroplasty Patients, Hamilton, ON, November 2005. Update on OAI Arthroplasty Experience - Care Model Development.


Maki BE: Pittsburgh Older Americans Independence Center (National Institute on Aging Claude Pepper Center), University of Pittsburgh, Pittsburgh, PA, September 2005. Invited participant at site - Visit and Research Retreat.

Murnaghan JJ: Ontario Association for Amputee Care, Toronto, ON, May 2006. Quality of Life Before and after Below Knee Amputation for Limb Ischemia.


Richards RR: COA Specialty Meeting, Toronto, ON, June 2006. Rotator Cuff Tear Should Be Done Open (debate with Dr. R. Hollinshead.)


Stephen DGS: Faculty Development Forum, AO Chairman’s Course, Scottsdale, AZ, November 2005. (1) The Daily Pre-Course (Lecture.), (2) Update on Percutaneous Plating.


Stephen DGS: Division of Orthopaedic Surgery, McGill University, Montreal, QC February 2006. Visiting Professor.


Research and Investigations

*Senior Investigator’s Name Appears in Italics*

An Intelligent Environment to Support Aging-In-Place and Independence. *Mihailidis A*, Fernie GR, Boutilier C: *Alzheimer’s Association* ($223,000 2004 - 2007.)


Biomechanical Assessment of Kyphoplasty in a Burst Fracture Model. *Ford M*, Whyne C: *Kyphon* ($20,000 2006.)


Enabling Safe Independent Powered Wheelchair Mobility in Long Term Care Residents with Cognitive and Other Impairments that Currently Limit Powered Mobility Use. *Fernie GR*, Cott, CA, Herrmann, N, Jutai, JW: *Canadian Institutes of Health Research (CIHR)* ($348,571 2002 - 2005.)
Evaluation of a Pre-Clinical Model of Vertebral Metatasis; An In Vivo Study of the VX2 Rabbit Carcinoma. Whyne CM, Yee AJ (Co-Investigator): Zimmer ($10,000 2005 - 2006.)


Functional Outcome in Cardiovascular Patients Undergoing Surgical Hip Fracture Repair (FOCUS.) Carson J, Multicentre Trial Involving USA and Canadian Sites: National Institute of Health (NIH), National Heart and Lung Institute ($8,000,000 2003 - 2008.)

Health Care Technology and Place - research training program. Coyte PC, McKeever P, Fernie GR et al: Canadian Institutes of Health Research (CIHR) ($1,980,000 2002 - 2007.)


Innovative Approaches to Optimizing Balance and Mobility in Older Adults. Maki BE, McIlroy WE, Fernie GR, Popovic M, Lui B, Fisher R: Canadian Institutes of Health Research ($1,101,385 2002 - 2007.)


Prospective Randomized Clinical Pilot Study to Evaluate the Effects of the Medial Distal Locking Plate for High Energy Intra Articular Fractures of the Distal Tibia. Stephen DJG, Kreder H, MD, Schemitsch E, McKee M, Bulmer B: American Orthopaedic Foot and Ankle Society (AOFAS) ($10,000 2005 - 2006.)

Risk Factors & Indicators that Predict the Progression of Osteoarthritis after Knee Injury. Marks PH, Hurtig M, White L, Weller I: CIHR - Net Grant (300, 000 x 5 years) ($300,000 2004 - 2009.)

Role of Spatial Memory in the Control of Grasping Reactions. Maki BE, Scovil S: Ontario Neurotrauma Foundation (Summer Internship Program) ($10,000 2006.)
Safe Activity Participation Following Elective Total Hip Replacement (SafeT.)  
Weller I, Kreder H, Gollish J, Kennedy D: OAI Research Committee ($15,000 2005.)

The Impact of Hip and Knee Replacements and Other New Techniques on Physician Requirements for Orthopaedic Surgery.  
Chan B, Williams J, Hawker G, Kreder HJ, Buske L, Rorabeck CH: CHSRF ($161,000 2002 - 2006.)

The Validation of a Classification for Work-Related Disorders of the Shoulder and Elbow.  

Tumor Invasiveness and the Role of Versican in Breast Carcinoma Metastasis to Bone.  
Yee AJ, Yang B, Finkelstein JA (Co-I): Zimmer ($10,000 2005 - 2006.)

**Honours Received**

**Cameron JC:**  The Dr. Marvin Tile Distinguished Service Award in Recognition of Contributions to the Department of Surgery, January 2006.

**Kreder HJ:** Edwin G. Bovril Memorial Lecture Award for Best Research Paper Presented at the 21st Annual Meeting of the Orthopaedic Trauma Association, October 2005.

**Kreder HJ:** Inaugural Marvin Tile Chair, Division of Orthopaedic Surgery, Sunnybrook & Women’s College Health Sciences Centre, University of Toronto, October 2005.

**Murnaghan JJ:** Helen J. Batty Faculty Development Award for Program Excellence, Faculty of Medicine, University of Toronto, April 2006.

**Richards RR:** Bruce Tovee Award for Undergraduate Teaching, Department of Surgery, University of Toronto, May 2006.

**Stephen DGS:** Winquist Cup for Best Lab at the Orthopaedic Trauma Association, Resident Course, November 2005.

DIVISION OF PLASTIC SURGERY

Dr. O. Antonyshyn - Associate Professor
Dr. M. Beveridge - Assistant Professor
Dr. P. Binhammer - Lecturer
Dr. M.H. Brown - Associate Professor
Dr. R.C. Cartotto - Associate Professor
Dr. J. Fialkov – Assistant Professor
Dr. J.S. Fish - Associate Professor
Dr. M. Gomez - Assistant Professor
Dr. J.L. Semple - Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities


**Antonyshyn O:** Trauma 2006 Annual Meeting, Trauma Association of Canada and Panamerican Trauma Society, Banff, AB, March 2006. (1) Facial Trauma: Primary Repair, (2) Post-traumatic Facial Deformities: Issues and Outcomes.


**Brown MH:** Inamed Aesthetics, Chicago, IL, September 2005. Reconstructive Breast Surgery with Cohesive Gel Implants - Inamed Academy.

**Cartotto RC:** Mont Tremblant Anesthesia and Perioperative Medicine Conference, Mont Tremblant, QC, February 2006. Acute Burn Care Review.

**Cartotto RC:** Canadian Association of Burn Nurses, Toronto, ON, September 2005. Acute Management of the Burned Hand.

**Cartotto RC:** American Burn Association Annual Meeting, Las Vegas, NE, April 2006. Course D: Innovative Therapies for ALI and ARDS in the Burn Patient.


**Semple JL:** TSRCC Breast Rounds, Toronto, ON, January 2006. Innovation and Outcomes in Breast Reconstruction.

**Semple JL:** Canadian Society of Plastic Surgeons Annual Meeting, Quebec City, QC, Canada, June 2006. Plastic Surgeon on Mount Everest.

Research and Investigations

*Senior Investigator’s Name Appears in Italics*


Near Infrared Spectroscopy for Evaluation of Burn Depth. Fish J, Leonardi L, Sowa M: Physicians Services Incorporated ($160,000 2004 - 2006.)


Psychosocial Functioning in Women Treated with Mastectomy With or Without Breast Reconstruction. Semple JL, Metcalfe K, Holloway C: Canadian Breast Cancer Foundation ($183,168 2004 - 2007.)


Honours Received

**Brown MH:** The American Society of Plastic Surgeons, PSEF Recognition Award, September 2005.

**Cartotto RC:** 2006 PAIRO Excellence in Clinical Teaching Award for the University of Toronto, May 2006.
DIVISION OF UROLOGY

Dr. L.K. Carr – Assistant Professor
Dr. S. Herschorn - Professor
Dr. L.H. Klotz – Professor (Division Head)
Dr. R.T. Kodama - Associate Professor
Dr. R.K. Nam - Assistant Professor
Dr. S. Sharir - Assistant Professor
Dr. V. Venkateswaran - Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

**Herschorn S:** Australasian Urological Society Workshop on Botulinum Toxin A, Sydney, Australia, December 2005 (1) Botulinum toxin A in sphincter dysfunction, (2) Botulinum toxin A injection techniques.

**Herschorn S:** NEXUS Male OAB Meeting, Dublin, IR, June 2006. Assessment of LUTS including OAB symptoms in the male patient.


**Herschorn S:** Association for the Bladder Exstrophy Community 2nd International Conference, Toronto, ON, August 2005. Bladder exstrophy adult issues.


**Herschorn S:** Society for Urodynamics and Female Urology Plenary Session, Atlanta, GA, May 2006. Collagen is still the best injectable agent.

**Herschorn S:** Canadian Urological Association, Halifax, NS, June 2006. (1) CUA Guidelines Session: Update on Clinical Practice Guidelines, (2) Educational Forum on Overactive Bladder: Current role and results for Botulinum Toxin A for overactive bladder, (3) Investigator initiated clinical trials - barriers and solutions.

**Herschorn S:** American Urological Association Plenary Session, Atlanta, GA, May 2006. Moderator: How should urologists treat patients with multiple sclerosis?

**Herschorn S:** Ottawa General Hospital/University of Ottawa, Ottawa, ON, January 2006. New concepts in the use of mesh for pelvic floor reconstruction.

**Herschorn S:** Queen’s University, Kingston, ON, February 2006 - Queen’s University Annual Senior Urology Residents Review Course.

**Nam RK:** American Society of Clinical Oncology Prostate Cancer Symposium, San Francisco, CA, February 2006. Can Prostate Cancer Risk Assessment Be Refined?

**Sharir S:** Man to Man Prostate Cancer Support Group, Toronto, ON, August 2005. Quality of Life after Radical Prostatectomy.

**Sharir S:** Newmarket Prostate Cancer Support Group, Newmarket, ON, January 2006. Quality of Life with Localized Prostate Cancer.

Research and Investigations

*Senior Investigator’s Name Appears in Italics*


A Randomized, Double-Blind, Placebo Controlled Detrol LA “Add-on” to Alpha-Blocker Study in Men With Persistent Lower Urinary Tract Symptoms of Urinary Frequency and Urgency With/Without Urinary Incontinence After Previous Monotherapy With Alpha Blocker. *Herschorn S*: *Pfizer* ($50,000 2005 - 2007)

A Randomized Multi-Centre Clinical Trial to Evaluate the Efficacy of Amitriptyline for the Treatment of Painful Bladder Syndrome (PBS) in Newly Diagnosed Patients. *Nickel C*, Carr LK: *NIH* ($25,000 2005 - 2006.)


Effectiveness of Tolterodine Tartrate on Patient’s Perception of Bladder Condition. *Herschorn S: Pfizer* ($10,000 2004 - 2005.)


Muscle Cell Mediated Therapy for Stress Urinary Incontinence: A Phase 2 Trial. *Carr LK: Cook Myosite* ($100,000 2005 - 2006.)

Non-Invasive Longitudinal Imaging of Prostate Cancer Progression in a Transgenic Model. *Foster S, Duckett A, Klotz L, Venkateswaran V: Canadian Prostate Cancer Research Initiative* ($50,000 2004 - 2006.)


SELECT Trial (Vitamin E and Selenium for Prevention of Prostate Cancer: A Randomized Trial. Funded at $170,000,000. over 10 years. *Coltman, C.*, Many co-investigators with the South Western Oncology Group including Klotz, LH: *NIH* ($170 1999 - 2009.)

**Honours Received**

**Nam RK:** Bernard Langer Surgeon Scientist Award, Department of Surgery, University of Toronto, May 2006.

**Nam RK:** Dr. Marvin Tile Distinguished Service Award, Department of Surgery, Sunnybrook Health Sciences Centre, June 2006.
Introduction
The Surgical Department of the Toronto East General Hospital has 19 active surgeons including three urologists, six orthopedic surgeons; six general surgeons, including two thoracic surgeons, four plastic surgeons and one consulting neurosurgeon Dr. Fred Gentili.

Changes
Dr. Harold Hall, plastic surgeon, has retired this year. Dr. Vern Campbell and Dr. Wayne Tanner have joined the staff of St. Michael’s Hospital in line with the Ministries’ initiative to centralize vascular services. Dr. Paul Sullivan, general surgery, has joined the staff of St. Joseph’s Health Science Centre.

We welcome Dr. Jamie Cyriac to the Division of General Surgery. Jamie obtained his BSC from MacMaster and his MD degree from the University of Western. He is a graduate from the University of Toronto General Surgery Program and recently completed a Minimally Invasive Surgery Fellowship in Toronto.

The Time to Treat initiative pioneered by Dr. Rob Zeldin, in collaboration with our oncology and respirologist colleagues, has significantly shortened the time from initial presentation to diagnosis for lung cancer. This successful model will now be extended across the province and other types of cancers.

Dr. Carmine Simone, our Director and Division Head of Critical Care, has been successful in securing funding for the Ministries Critical Care Rapid Response Team initiative. TEGH will use this funding to support a simulated patient program to be instituted across disciplines. Research will be an integral part of these plans.

Two of our 13 operating rooms will be fully fitted with MIS equipment this summer. We are grateful for a 2 million dollar matching gift from Dr. Bill Waters. A third room will be fitted by the end of this year with two more rooms planned.

Dr. Rob Zeldin and Dr. Carmine Simone have cross appointments with Sunnybrook Health Science Centre as thoracic surgeons. With the retirement of Dr. B. Miller, TEGH has been supporting the oncologists, radiation therapists and respirologists at Sunnybook with the aim of becoming a Level 1 Thoracic Center.

Presentations
Cancer Care Ontario Innovative Fund project: “Time to Treat: Fast Tracking Lung Cancer Patients Through the System.” One of only 3 CCO projects to receive special recognition. Dr. Robert Zeldin, invited speaker at 1st Annual Ontario Lung Oncology Group, Niagara-on-the Lake, April 2006: Presentation of Results of “Time to Treat” Lung Cancer Project at TEGH. Dr. Rob Zeldin Teaching: Clinical Clerk Lecture Series in Thoracic Surgery at Sunnybrook Hospital (with Dr. Carmine Simone); Faculty and Speaker at General Surgery Update Course, University of Toronto, April 2006; Faculty and Speaker at Thoracic Surgery Refresher Course, University of Toronto, June 2006.
Division of General Surgery
Dr. P. Bernick - Assistant Professor
Dr. J. Cyriac - Lecturer
Dr. T. Gilas - Assistant Professor
Dr. R. Mackenzie - Assistant Professor
Dr. R. Zeldin – Assistant Professor (Division Head)

Division of Orthopedic Surgery
Dr. M. Catre - Lecturer
Dr. W. Kraemer - Lecturer
Dr. G. Maistrelli - Associate Professor (Division Head)
Dr. F. Mastrogiacomo - Lecturer
Dr. P. Weiler - Assistant Professor
Dr. P. Wong - Lecturer

Division of Plastic Surgery
Dr. B. Beber
Dr. M. Dupere
Dr. A. Kesarwani (Division Head)
Dr. L. Tate - Lecturer

Division of Thoracic Surgery
Dr. C. Simone - Lecturer
Dr. R. Zeldin - Assistant Professor

Division of Urology
Dr. R. MacMillan - Assistant Professor
Dr. R. Singal - Lecturer (Division Head)
The Department of Surgery at University Health Network has enjoyed an extremely successful year. Clinical volumes were for the most part achieved or exceeded, surgical budgets were adhered to, the educational and research mandates were met on an ongoing basis; and a planning process, instituted just prior to the beginning of the last fiscal year, was encouraging in its comprehensive focus and early successes.

In general, budgeted volumes were achieved. Open-heart surgeries were just below budgeted numbers, surgical oncology was above budget, and hips and knees were under the total by only 14. Transplant volumes were achieved and prepared the way for a significant increase in budgeted volumes for 2006-2007. The volumes for hips and knees have been increased to 849 (and possibly as high as 1000), and this number will need further discussion and strategies to succeed given the current staff complement. Measured outcomes were excellent.

University Health Network (UHN) has played a major role in the last two years in the Ontario Wait Times Project under the direction of Dr. Alan Hudson. In particular, Jon Irish and Bryce Taylor have been active on the surgical side, with significant help from Francesca Fiumara and Lee Fairclough as well as many others on their teams. We will continue to lead when the initiative advances to a large number of Ontario hospitals. In one area, hepatobiliary and pancreatic surgery, a “one number to call” system was set up to render wait times amongst our HPB surgeons more consistent. This is an important step in the next phase of wait times management among various clinicians in a division/department, not just wait times capture.

UHN Department of Surgery was active during the year in recruiting not only for the 2005-2006 academic year, but also for July 2006. As of this date, Drs. Allan Okrainec and Erin Kennedy will be appointed to the Division of General Surgery. In addition, Drs. George Oreopoulos and Doug Wooster were recruited in January 2006 as our newest members of the Vascular Surgery Centre of Excellence, situated at the University Health Network. In addition, the Department of Surgery either established or reappointed no fewer than seven endowed chairs, for a current total of 20 in Surgical Services. Lorne Rotstein was appointed to the Peter Crossgrove Chair in General Surgery, Tom Waddell to the R. Fraser Elliott Chair in Transplantation, Viv Rao to the DeGasperis Chair in the Surgical Management of Heart Failure, Terry Yau to the DeGasperis Chair in Cardiovascular Surgery Research, David Urbach to the Tyco Chair in Minimally Invasive Surgery, Mark Cattral to the CIHR/Fujisawa Chair in Transplantation and Mike Jewett to the Anna-Liisa Farquharson Chair in Kidney Cancer Research.

Many local and provincial discussions took place in the last 18 months, culminating in the establishment of a Vascular Surgery Centre of Excellence at University Health Network. A major portion of this work fell to Marnie Escaf, Janet Newton, Barry Rubin and Tom Lindsay. This led to an agreement of funding and clinical enhancement, which will build an EVAR Program and expand current vascular activities with recruitment of additional personnel. A Vascular Surgery Alternate Funding Arrangement has stabilized academic vascular surgical incomes.
In July 2005, Drs. David Urbach and Herb von Schroeder were promoted to Associate Professor; and Drs. Mark Cattral, Karen Davis and Fred Gentili were promoted to Full Professor. For the July 1st 2006 process, Michael Borger will be promoted to Associate Professor and Michael Johnston to Full Professor.

The quantity and quality of education provided by UHN surgeons was once again highly rated at undergraduate and postgraduate levels.

Research productivity in all the divisions continues to be strong. In the last academic year, peer-reviewed funding remained at a very high level and the quality and quantity of manuscripts published were consistent throughout all eight surgical divisions.
DIVISION OF CARDIAC SURGERY

Dr. M.A. Borger - Associate Professor
Dr. S.J. Brister - Associate Professor
Dr. R.J. Cusimano - Assistant Professor
Dr. T. E. David – Professor (Division Head)
Dr. C.M. Feindel - Professor
Dr. R.K. Li - Professor
Dr. A.C. Ralph-Edwards - Lecturer
Dr. V. Rao - Associate Professor
Dr. H.E. Scully - Professor
Dr. R.D. Weisel - Professor
Dr. T.M. Yau - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Borger MA: Grand Rounds, Department of Surgery, Maine Medical Center, Portland, ME, January 2006. Cerebral Emboli During Cardiac Surgery: What Do We Know?


Cusimano RJ: Scarborough Centenary Hospital, Scarborough, ON, December 2005. Pacer Insertion Methods.


David TE: ISMETT - Instituto Mediterraneo per I Trapianti e Terapie ad Alta Specializzazione and UPMC - University of Pittsburgh Medical Center, Palermo, Italy, May 2006. “A Day with Tirone David” - Live Teleconference and Lectures: (1) Live Demonstrations of Aortic and Mitral Valve Repair, (2) Lecture: Long term Results of Aortic and Mitral Valve Repair.


David TE: American Association for Thoracic Surgery, Philadelphia, PA, April 2006. (1) Long term Results of Aortic Valve Sparing Operations, (2) Dividing Secondary Chords Improves Mitral Leaflet Mobility and Reduces Mitral Regurgitation in Patients with Ischemic MR.

David TE: Universita di Roma Tor Vergata, Rome, Italy, November 2005. (1) Twenty-Year Results of the Hancock II Bioprosthesis, (2) Update on Reoperative Mitral Valve Surgery and Aortic Root Reconstruction.

David TE: Seminar on Heart Valve Disease, Washington, DC, March 2006. (1) When and How to Operate on Patients with Mitral Valve Disease, (2) Outcomes of Mitral Valve Repair and Replacement, (3) When and How to Operate on Patients with Aortic Valve Disease, (4) Outcomes of Aortic Valve Repair and Replacement.


David TE: Dallas Valve Symposium: What Every Surgeon Needs To Know, Dallas, TX, November 2005. Course Coordinator: (1) Management of the Ascending Aorta and Root in Aortic Valve Disease: What Do I Do? (2) Does The Type of Mitral Annuloplasty Ring Matter?


David TE: Seminari di Chirurgia Cardiaca: La Chirurgia dell’Aorta, University Degli Sudi Bari, Bari, Italy, March 2006. La Chirurgia della Radice Aortica.

David TE: X Aortic Symposium - Mount Sinai Medical School, New York City, NY, April 2006. Long Term Results of Aortic Valve Reimplantation in Patients with Aortic Root Aneurysm.


David TE: Sheba Medical Center, Tel Aviv, Israel, March 2006. Visiting Professor: (1) Teleconference: Live Surgical Demonstration of Aortic and Mitral Valve Repair, (2) Lectures: Results of Aortic and Mitral Valve Repair.


Feindel CM: Canadian Cardiovascular Society, Montreal, QC, October 2005. WORKSHOP: Faculty - Feindel C, Siu S, Butany J, Thangaroopan M. Echo-Path: Case-Based Illustration of Echocardiographic-Pathologic Correlates.
Li R-K: The 9th Annual Toronto International Heart Failure Summit from Pathophysiology to Clinical Practice, Toronto, ON, June 2006. Cardiac Regenerative Medicine II (Chair.)

Li R-K: International Heart Forum Beijing 2005, Beijing, China, September 2005. Cardiovascular Surgery (Invited Speaker.)


Li R-K: 3rd Baltic Stem Cell Conference, Rostock, Germany, August 2005. Cell Transplantation (Invited Speaker.)

Li R-K: VIII World Congress of the International Society for Adaptive Medicine, Moscow, Russia, June 2006. Cell Transplantation to Regenerate Damaged Myocardium (Invited Speaker.)

Li R-K: Montreal Heart Institute, Montreal, QC, February 2006. Cell Transplantation to Restore Cardiac Function: Past, Present and Future (Invited Speaker.)


Li R-K: 28th International Society of Heart Research: Translating Molecular Advances, Toronto, ON, June 2006. Creation of Cell Engineered Cardiac Tissue for Cardiac Repair (Invited speaker.)

Li R-K: International Society for Heart and Lung Transplantation - 7th Fall Education Meeting, Dallas, TX, November 2005. Effects of Endothelial Progenitor Cells on the Extracellular Matrix (Invited Speaker.)

Li R-K: 3rd Annual Research Forum for Young Investigators in Circulatory and Respiratory Health, Winnipeg, MB, May 2006. Fraser Mustard Award Competition Examinar (Invited Examinar.)

Li R-K: Cell Therapy, Bench to Bedside Meeting, Institute of Cardiovascular Research, Harbin Medical University, Harbin, People’s Republic of China, July 2005. Rebuilding Myocardial Matrix After Myocardial Infarction (Invited speaker.)

Li R-K: CIHR/Transplant Program Seminar, Toronto General Hospital, Toronto, ON, January 2006. Restoration of Cardiac Function by Cell Transplantation (Invited Speaker.)

Li R-K: International Stem Cell Forum, Shanghai, China, September 2005. Stem Cells and Cardiovascular Disease (invited speaker.)


Rao V: ACC Annual Lake Louise Symposium, Lake Louise, AB, March 2006. Surger for End-Stage Heart Disease.


**Rao V:** Canadian Residents and Fellow’s Summit on Heart Failure, Transplantation & Mechanical Circulatory Support, Montreal, QC, October 2005. The Abiomed BVS5000.

**Rao V:** Canadian Residents and Fellows Summit on Heart Failure, Transplantation & Mechanical Circulatory Support, Montreal, QC, October 2005. The HeartMate LVAS.

**Rao V:** 9th Annual Heart Failure Summit, ACC, Toronto, ON, June 2006. The STICH Trial: An Update.

**Scully HE:** Canadian Medical Association, Edmonton, AB, August 2005. 138th Annual Meeting.

**Scully HE:** Canadian Cardiovascular Society, Montreal, QC, October 2005. Annual General Meeting.

**Scully HE:** The Royal College of Physicians and Surgeons of Canada, Ottawa, ON, November 2005. Health and Public Policy Committee.

**Scully HE:** University of Pennsylvania, Pittsburgh, PA, April 2006. Human Resources for Health: National Needs and Global Concerns.

**Scully HE:** Insight Information, Toronto, ON, February 2006. The Hospitalist Model - The Continuing Evolution of Inpatient Care.


**Weisel RD:** Update on Cardiopulmonary Bypass Meeting, Whistler, BC, March 2006. Biology Options for Improving Coronary Revascularization.

**Weisel RD:** San Diego Cardiothoracic Surgery Symposium, San Diego, CA, February 2006. Cardiac Regeneration by Biosurgery.

**Weisel RD:** Ottawa Heart Institute, Ottawa, ON, September 2005. Cardiac Regeneration by Cell Transplantation.

**Weisel RD:** Vincent Dor Symposium on Heart Failure, New York, NY, June 2006. Cardiac Regeneration by Cell Transplantation.

**Weisel RD:** Institute of Thoracic and Cardiac Surgery, Changhai Hospital, Second Military Medical University, Shanghai, China, April 2006. Cardiac Regeneration: The Future of Cardiac Surgery.


**Weisel RD:** Association of Thoracic and Cardiovascular Surgery in Asia, Manila, Philippines, November 2005. Cellular Therapy in Cardiac Surgery.

**Weisel RD:** ChaRM 2005, Toronto, ON, October 2005. Creating A New Heart.

**Weisel RD:** Update on Cardiopulmonary Bypass Meeting, Whistler, BC, March 2006. Outcome Data: Surgery versus Percutaneous Interventions.

### Research and Investigations

*Senior Investigator’s Name Appears in Italics*


Autologous Tissue-Engineered Grafts for Congenital Heart Surgery. *Li R-K: Canadian Institutes of Health Research* ($647,655 2003 - 2008.)


Cell Transplantation to Improve Heart Function. *Li R-K: Ontario Ministry of Energy, Science and Technology* ($150,000 2001 - 2006.)


Enhancing Endogenous Repair by Cell Therapy. Weisel RD, Fazel S: *Heart and Stroke Foundation of Ontario* ($68,192 2005 - 2006.)

Functionality of Resistant Starch and Bioactive Peptides in Preventing Chronic Diseases and Promoting Gut Functions in Studies with the Pig Model. Fan MZ, Liu Q, Mine M, Yada R, Bakovic M, Li R-K, Hellerstein M: *Ontario Ministry of Agriculture and Food/University of Guelph Food Research Program* ($600,000 2004 - 2008.)


Hypertonic Saline for Cardiac Transplantation. Feindel CM, Rao V: *Heart and Stroke Foundation of Canada* ($85,609 2005 - 2006.)

Hypertonic Saline for Cardiac Transplantation. Rao V, Ramzy D: *Physicians’ Services Incorporation* ($20,000 2005 - 2006.)


Polyarginine Treated Vein Grafts (PATENT.) Briste SJ, Yau T, Ralph-Edwards A: *Lumen Therapeutics* ($630,000 2005 - 2008.)


Quest Trial. Weisel RD, Rao V, Yau TM: *Quest Medical, Inc.* ($50,000 2001 - 2005.)

STICH Trial - Surgical Therapy for Ischemic Congestive Heart Failure (awarded world wide.) Rao V, Yau T, Brister SJ, Cusimano RJ: *National Institute of Health* ($7,500,000 2002 - 2008.)


The Interplay of Recruited Stem Cells and the Matrix after Myocardial Infarction: Shifting the Balance Toward Repair. Li R-K, Fazel S: *Canadian Institutes of Health Research* ($738,073 2004 - 2009.)


The Role of Stem Cell Factor Receptor in Cardiac Remodelling after Myocardial Infarctions. Yau TM, Fazel S: *Physicians Services Incorporated* ($20,000 2004 - 2006.)

Transplant Vasculopathy: The Role of Endothelium. Rao V: *Canadian Institutes of Health Research* ($50,000 2005 - 2006.)


Vasculogenesis Induced by Cell Transplantation. Li R-K: *Heart and Stroke Foundation of Ontario* ($327,408 2003 - 2007.)
Honours Received

David TE: 54th Brotherhood of Beth Sholom Synagogue Humanitarian Award, November 2005.


Li R-K: Canada Research Chair in Cardiac Regeneration, March 2006.

Weisel RD: Elected Honorary Member of the American Association for Thoracic Surgery, Philadelphia, PA, April 2006.
DIVISION OF GENERAL SURGERY

Dr. M.S. Cattral - Professor
Dr. E. Escallon – Associate Professor
Dr. S. Gallinger - Professor
Dr. R.M. Gorczynski - Professor
Dr. D. Grant - Professor
Dr. P. Greig - Professor
Dr. B. Langer - Professor
Dr. W.L. Leong- Assistant Professor
Dr. D.R. McCready - Professor
Dr. I.D. McGilvray – Assistant Professor
Dr. T. Penner – Assistant Professor
Dr. M. Reedijk - Assistant Professor
Dr. R.K. Reznick - Professor
Dr. L.E. Rotstein – Professor (Division Head)
Dr. B.R. Taylor – Professor
Dr. D. R. Urbach - Associate Professor
Dr. A. Wei – Assistant Professor
Dr. H.A.E. Weizel - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

Cattral MS: Canadian Transplant Fellows Course, Toronto, ON, November 2005. Pancreas Transplantation Update.

Gallinger S: CIHR - Colorectal Cancer Screening Workshop, Toronto, ON, April 2006. DNA Testing for Colorectal Cancer and Polyps and How Far Away We Are From This.

Gallinger S: Update on Cancer Genetics in Ontario Symposium - Centre for Research in Women’s Health, Toronto, ON, March 2006. (1) Genetics of Gastric Cancer, (2) Update on Genetic Susceptibility to Colon Cancer.


Reznick RK: Professional Association of Residents and Interns of Ontario, Toronto, ON, November 2005. A 48-Hour Work Week: Has Europe Gone Too Far In Their Reduction Of Resident Work Hours?


Reznick RK: Sir Peter Freyer Memorial Lecture at the XXXth Sir Peter Freyer Memorial Lecture and Surgical Symposium, University of Ireland, Galway, Galway, Ireland, September 2005. Surgical Training in 35 hours Per Week or Less: Laudable or Lunacy?

Reznick RK: W.B. and M.H. Chung Lecture, University of British Columbia, Vancouver, BC, October 2005. Surgical Training in 35 hours Per Week: Laudable or Lunacy?


Reznick RK: British Journal of Surgery Lecture at the Tripartite Colorectal Meeting of the Royal Dublin Society, Dublin, Republic of Ireland, July 2005. Why Does It Take Six Years to Teach a Brilliant Trainee to Do a Colectomy?

Research and Investigations

Senior Investigator’s Name Appears in Italics

A Phase 2, Double-Blind, Randomized, Placebo-Controlled, Multi-Center Study Assessing the Value of Adding RAD001 to Letrozole (Femara) as Preoperative Therapy of Preliminary Breast Cancer in Postmenopausal Women. Leigh N, Reedijk M, Leong W, McCready D: Novartis ($35,000 2005 - 2006)

A Program of Inter-Disciplinary and Population-Based Studies of the Determinants and Impact of Colorectal Cancer - A Genetic - Epidemiological Approach. McLaughlin J, Gallinger S, Bapat B, Cotterchio M, and 15 others: Canadian Institutes of Health Research ($1,069,000 2001 - 2006.)


A Qualitative Study Comparing Health Care Providers’, Patients’, and Family Perceptions, Attitudes and Beliefs About the Risk of Living Liver Donation. Fecteau A, Grant D, Wright L: Physicians Services Incorporated Foundation ($64,000 2004 - 2006.)


A Randomized, Phase III Clinical Trial to Compare Sentinel Node Resection to Conventional Axillary Dissection in Clinically Node-Negative Breast Cancer Patients. McCready DR: National Surgical Adjuvant Breast and Bowel Project ($120,000 2004 - 2005.)

A Registry-Based Observational Study Assessing Clinical Outcomes in Familial Adenomatous Polyposis in Patients Receiving Celecoxib Compared to Control Patients. Gallinger S: Pfizer Inc. ($67,500 2005 - 2007.)


Ductoscopy of Breast Diseases. Leong WL, Easson AM, McCready DM: Princess Margaret Hospital ($25,000 2004 - 2007.)


Evaluative Research in Surgical Procedures and New Health Technologies: Ensuring Quality, Access and Sustainability for Surgical Care in Ontario. Urbach DR: Ontario Ministry of Health and Long-Term Care ($250,000 2002 - 2007.)


Investigation of Dendritic Cell Ontogeny from Highly Purified Precursors. Catrall MS: Canadian Institutes of Health Research ($273,870 2004 - 2007.)


Perceptions of Professionalism Among Faculty and Trainees in Academic Surgery. Park J, Woodrow S, Reznick RK, MacRae H: Royal College of Physicians and Surgeons of Canada ($24,867 2004 - 2005.)


Pushing Back the Boundaries of Whole Genome Analysis of Microdissected Fixed Human Tissue Samples with Improved Amplification. 
McCready DR, Done S: Sir Jules Thorn Charitable Trust ($50,000 2004 - 2005.)

Role of fg12 in Transplantation and Cardiac Development. Grant D, Levy G: Heart and Stoke Foundation of Canada ($227,750 2005 - 2008.)


The ARCTIC (Assessment of Risk for Colorectal Tumors in Canada) Genome Project. Zanke B, Hudson T, Gallinger S, Cotterchio M, Lemmens T: Genome Canada ($9,600,000 2004 - 2007.)


Honours Received

McCready DR: Association of Medical Illustrators - AMI Literary Award for Best Written Contribution to the Journal Of Biocommunication by a Member of the Association of Medical Illustrators, July 2005.

Reedijk M: Society of University Surgeons Junior Faculty Grant Award, February 2006.
DIVISION OF NEUROSURGERY

Dr. M. Bernstein - Professor
Dr. K.D. Davis - Professor
Dr. J. H. Eubanks - Associate Professor
Dr. M.G. Fehlings - Professor
Dr. F. Gentili - Professor
Dr. A. Guha – Professor
Dr. M. Hodaie – Assistant Professor
Dr. W.D. Hutchison - Associate Professor
Dr. A.M. Lozano – Professor
Dr. E. M. Massicotte - Assistant Professor
Dr. J.A. Saint-Cyr – Professor
Dr. C.H. Tator - Professor
Dr. M. Tymianski - Associate Professor
Dr. T. Valiante – Assistant Professor
Dr. A. A. Velumian - Assistant Professor
Dr. M.C. Wallace – Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities


Davis KD: North York Toronto General Hospital, Surgical Grand Rounds, Toronto, ON, December 2005. “Recent Advances In Imaging Pain.”


Davis KD: IASP Special Interest Group on Neuropathic Pain; Expanding Vistas on Neuropathic Pain (an Official Satellite to the 11th World Congress on Pain), Uluru, Australia, August 2005. Functional Brain Imaging.


Davis KD: 2nd International Forum on Pain Medicine, Guadalajara, Mexico, May 2006. Imaging of Pain.

Davis KD: 11th World Congress on Pain, International Association for the Study of Pain, Sydney, Australia, August 2005. Plenary Lecture: “Recent advances in Imaging Pain.”


Lozano AM: 5th International Congress on Mental Dysfunction in Parkinson’s Disease, Department of Neurology, VU University Medical Center, Amsterdam, The Netherlands, June 2006. Invited international speaker: Deep Brain Stimulation for Mood Disorders.


Lozano AM: Edmond Safra Foundation. Hebrew University, Jerusalem, March 2006. Invited International Speaker. Parkinson’s Disease, the Iceberg Phenomenon, What Lies Beneath the Surface?

Lozano AM: United States Army Neurotoxin Exposure Research Program Parkinson’s Disease Focus Session - Strategies for Late Stage Parkinson’s Disease, Bethesda, Maryland, July 2005. Invited International Speaker. Surgical Approaches.


Lozano AM: Cerebral Neuropathic Pain Symposium, Toronto, ON, June 2006. Speaker: Deep Brain Stimulation for CPSP.


Lozano AM: Royal Ottawa Hospital, University of Ottawa, Ottawa, ON, April 2006. Visiting Professor and Public Lecture, Progress in the Treatment of Depression.

Lozano AM: Dartmouth-Hitchcock Medical Centre, Section of Neurosurgery, Lebanon, NH, June 2006. Visiting Professor: Neurosurgical Interventions to Improve Brain Function.

Lozano AM: Department of Psychiatry, Southwestern University, Dallas, TX, April 2006. Visiting Professor: Surgery for Psychiatric Disorders.


Tymianski M: Department of Neurosciences, Brain Research Center, University of Calgary, Calgary, AB, January 2006. From Bench to Bedside: Preclinical Development of Stroke Therapeutics. Visiting Professor.


Tymianski M: Canadian Stroke Networks Annual General Meeting, Quebec City, QC, September 2005. Poster Judge.

Tymianski M: Canadian Stroke Networks Annual General Meeting, Quebec City, QC, September 2005. Presenter: Update on Neuroprotection Using Inhibitors of Protein-Protein Interactions.

Tymianski M: Department of Pharmacology, Loyola University Medical Center, Chicago, IL, March 2006. The Road from Bench to Bedside: PSD-95 Inhibitors as Treatments of Neuronal Injury. Invited speaker.


Wallace MC: 17th Annual Meeting of the Eastern Neuroradiological Society, Ottawa, ON, August 2005. Cavernous Malformations: Cerebral Hemorrhoids Without Significance?

Wallace MC: 9th Joint Annual Meeting of the AANS/ CNS and ASITN, Orlando, FL, February 2006. Experience of a North American Center in ISAT.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Balancing the Risk of Thromboembolism with Hemorrhage in Trauma and Non-Trauma Patients with Central Nervous System Hemorrhage and a Strong Indication for Anticoagulation. *Hawryluk G*, Fehlings MG: *AO North America* ($5,860 2005 - 2006.)


Characterization and Identification of Oncogenic Receptor Protein Tyrosine Kinase Signalling Complexes in Malignant Astrocytomas. *Guha A*, Moran M: *OCRN* ($110,000 2003 - 2005.)


Human Studies of Pain Perception. *Davis KD*, Diamant NE: *Canadian Institutes of Health Research* ($539,925 2002 - 2007.)

In-Vivo Suppression of TRMP7 Expression Using siRNA. *Tymianski M*: *Krembil Seed Fund* ($100,000 2006 - 2007.)


Pathophysiology of Parkinson’s Disease. Chen R, Hutchison WD, Lozano AM: CIHR ($625,000 2004 - 2009.)


Regenerative Medicine Strategies for Spinal Cord Injury Repair: Integration of Stem Cell Biology, Nanotechnology, Bioengineering Approaches and Neurosurgical Application. Fehlings M, Tator CH: Canadian Institutes of Health Research (CIHR) ($1,500,000 2004 - 2009.)


Role of Angiopoietins in Human Astrocytomas. Guha A: NCIC ($420,000 2004 - 2007.)


Spatial Summation and Discrimination of Pain in Humans - An fMRI Study. Davis KD, Defrin R: International Association For The Study of Pain ($10,505 2003 - 2005.)


The Role of Lipid Rafts in Ischemia-Induced Modulation of Postsynaptic Signalling. Gurd JW, Wallace MC: Heart and Stroke Foundation of Ontario ($126,000 2004 - 2006.)


The Role of TRP Channels in the Cellular Mechanism of Stroke and Aging. Tymianski M, MacDonald JF: CIHR ($750,000 2004 - 2009.)

The Secret Life of the Paranode: An Examination of the Role of Paranodal Myelin Loops in the Normal Physiology and Pathophysiology of Axons. Mills L, Fehlings MG, Velumian AA: Toronto Western Research Institute ($60,000 2005 - 2006.)


Honours Received

Davis KD: Canada Research Chair, January 2006.


**Division of Orthopaedic Surgery**

Dr. J.R. Davey - Associate Professor (Division Head)
Dr. B.A. Graham – Assistant Professor
Dr. J. Lau – Assistant Professor
Dr. S.J. Lewis – Assistant Professor
Dr. N. Mahomed - Associate Professor
Dr. K.W. Marshall - Assistant Professor
Dr. D.J. Ogilvie-Harris - Associate Professor
Dr. Y.R. Rampersaud - Assistant Professor
Dr. H.P. Von Schroeder - Associate Professor

**Publications**


Invited Visits to Other Hospitals/Universities


Davey JR: Emerging Trends and Controversies in Hip and Knee Arthroplasty, Whistler, BC, February 2006. (1) Long-Term Results of HA in Primary THA, (2) Importance of Femoral Offset. (3) Cemented Femoral Stems, (4) The Posterior Cruciate Ligament: Save It or Let It Fly, (5) TKA After HTO.

Davey JR: Surgical Advances in Total Hip and Knee, Mount Tremblant, QC, August 2005. (1) TKA - Better Than The Rest, (2) Revision Total Knee - Approach Options, (3) Modularity in Revision Total Hip Arthroplasty - Pros and Cons.


Davey JR: Hip Surgery in the Young Adult II Course, Banff, AB, January 2006. Metal on Metal Total Hip Replacement.


Lau JTC: Canadian Orthopaedic Society of Technologists, Toronto, ON, April 2006. Ankle Fusion vs. arthroplasty.


Rampersaud YR: Cleveland Spine Review, Cleveland Clinic, Cleveland, OH, July 2005. (1) Minimally Invasive Surgery: Results, Tricks and Pearls, (2) Motion Preservation Techniques.

Research and Investigations

Senior Investigator’s Name Appears in Italics

An Integrated Model of Care for Total Joint Replacements. Mahomed N, Davis A: Ontario Ministry of Health and Longterm Care ($700,000 2005 - 2007.)

A Randomized Controlled Clinical Trial of 1st MTPJ Arthrodesis Compared to 1st MTPJ Hemiarthroplasty in Severe Hallux Rigidus. Lau J, Daniels T, Mahomed N: Physician Service Incorporated ($73,000 2004 - 2006.)

A Randomized Controlled Trial of 1st MTPJ Fusion Compared to 1st MTPJ Hemiarthroplasty in Severe Hallux Rigidus. Lau J, Daniels T: American Orthopaedic Foot and Ankle Society ($10,000 2005 - 2006.)

Cell-based VEGF Gene Transfer to Promote Fracture Healing. Schemitsch E, Stewart D, von Schroeder H, Li R: Zimmer of Canada ($10,000 2005 - 2006.)
Cell-Based VEGF Gene Transfer to Promote Fracture Healing. *Schemitsch EH*, Li R, Stewart DJ, von Schroeder HP: *The Physicians Services Incorporated Foundation (PSIF)* ($86,000 2005 - 2006.)


Evaluating the International Classification of Function as a Model for Evaluating Rehabilitation Outcomes. *Davis A*, Badley E, Gignac M, Beaton D, Mahomed N, Streiner D, Flannery J, Schemitsch E: *Canadian Institute of Health Research* ($75,000 2003 - 2006.)


The Effect of Hospital and Surgeon Procedure Volume on the Outcomes of Primary and Revision Total Knee Replacement: Magnitude and Mechanisms. *Katz JN*, Baron J, Mahomed NN, Liang M, Barrett J, Guadiganoli E, Daltroy L: *National Institutes of Health* ($1,500,000 2001 - 2006.)


**Honours Received**

**Rampersaud YR:** Robert B. Salter Award for Excellence in Teaching, November 2005.

DIVISION OF PLASTIC SURGERY

Dr. D.J. Anastakis - Associate Professor
Dr. T. Bell - Lecturer
Dr. P. Bray - Assistant Professor
Dr. L.T. Dvali - Assistant Professor
Dr. B. Graham – Assistant Professor
Dr. J.E. Lipa - Assistant Professor
Dr. R.T. Manktelow - Professor
Dr. P.C. Neligan - Professor (Division Head)
Dr. H.P. von Schroeder – Associate Professor

Publications


Blondeel PN, Morris SF, Hallock GG, Neligan PC: Perforator Flaps, Anatomy, Technique and Clinical Applications (Two Volumes) (Blondeel PN, Morris SF, Hallock GG, Neligan PC, eds.) Quality Medical Publications Inc., St. Louis: 2006:


Invited Visits to Other Hospitals/Universities


Research and Investigations

Senior Investigator’s Name Appears in Italics

Cell-based VEGF Gene Transfer to Promote Fracture Healing. Schemitsch E, Stewart D, von Schroeder H, Li R: Zimmer of Canada ($10,000 2005 - 2006.)


Global Protection of Skeletal Muscle Against Ischemic Necrosis and Vascular Dysfunction by Non-Invasive Remote Ischemic Preconditioning: Efficacy and Mechanism. Pang, CY, Forrest CR, Neligan, PC: Canadian Institutes for Health Research ($72,648 2003 - 2006.)

Head and Neck Cancer Research. Neligan PC, Gullane P: RE Wharton Esq ($1,200,000 2002 - 2012.)

Lipofibromatosis of the Brachial Plexus. Arruda EJ, Anastakis DJ: The Toronto Hospital Research Institute ($4,000 2006.)


Optimizing In Vitro Osteogenesis: Applications Towards the Study of Scaphoid Fracture Non-Unions. von Schroeder HP: Manus Canada ($2,500 2004 - 2006.)


The Impact of Upper Limb Musculoskeletal Trauma on Perceived Disability and Quality Of Life. Ng WKY, Anastakis DJ: Canadian Institutes of Health Research ($5,961 2006 - 2007.)

Honours Received


Neligan PC: W.K. Lindsay Research Supervisor Award, University of Toronto, April 2006.

DIVISION OF THORACIC SURGERY

Dr. G.E. Darling - Associate Professor
Dr. M. de Perrot - Assistant Professor
Dr. M.R. Johnston - Professor
Dr. S. Keshavjee – Professor (Division Head)
Dr. M. Liu - Associate Professor
Dr. M.F. McKneally - Professor
Dr. A.F. Pierre - Assistant Professor
Dr. T.K. Waddell - Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Keshavjee S: Wuxi No. 5 People’s Hospital, University of Jiang Nan, Wuxi, China, August 2005. (1) Advances in Lung Transplantation, (2) Management of Primary Graft Dysfunction.


Keshavjee S: North YorK General Hospital, Toronto, ON, August 2005. The Management of Esophageal Cancer.


Liu MY: Department of Physiology, University of Alberta, Edmonton, Ab, October 2005. Ventilator-Induced Lung Injury: How Can Cells Sense Mechanical Stretch?


Research and Investigations

Senior Investigator’s Name Appears in Italics


A Phase 2 Multi-Center Randomized Double-Blind Placebo Controlled Parallel-Group Study of Repertaxin in the Prevention of Primary Graft Dysfunction After Lung Transplantation (Study No. REP0104). Keshavjee S: Dompe spa ($200,000 2005 - 2006.)

A Phase 3 Prospective Randomized, Double-Blind, Placebo-Controlled Trial of the Epidermal Growth Factor Receptor Antagonist, ZD1839 (IRESSA) in Completely Resected Primary Stage IB, II and IIIA Non-Small Cell Lung Cancer ( BR-19.) Darling GE: National Cancer Institute of Canada ($85,000 2002 - 2005.)


A Study to Find Out If a New Medical Device called The Intra-Bronchial Valve (IBV) is Safe and Effective to Use in Subjects with Severe Emphysema. Waddel TK: Spiration Incorporated ($524,440 2004 - 2005.)

Airway Remodelling in Bronchiolitis Obliterans after Lung Transplantation: The Role of Matrix Metalloproteinases. Keshavjee S: Canadian Fibrosis Foundation ($90,000 2006 - 2009.)


Endothelial Glycosylation, Monocyte Adhesion, and Delayed Xenograft Rejection. Waddel TK: Canadian Cystic Fibrosis Foundation ($207,000 2003 - 2006.)


LARGO: Lung Allograft Rejection Gene Expression Observational Study. Keshavjee S: XDx Expression Diagnostics, Inc. ($200,000 2005 - 2006.)

Mechanotransduction and Ventilator-Induced Acute Lung Injury. Liu MY: Canadian Institutes of Health for Research ($600,000 2001 - 2006.)

Molecular Correlates of Response to a Phase I/II Study of Single Agen Gefitinib (Iressa) in Patients with Clinical Stage I NSCLC Proceeding to Mediastinoscopy and Surgery. Tsao M, Waddell TK, Lara-Guerra H: Princess Margaret Hospital ($67,000 2004 - 2005.)


Signal Cross-Talk In Acute Lung Injury. Liu MY: Canadian Institutes of Health for Research ($655,000 2003 - 2008.)

The Role of Marrow Stromal Cells in Prevention of Chronic Lung Allograft Rejection.  
Waddell TK: Canadian Institutes of Health Research ($150,000 2004 - 2006.)

Ventilator-Induced Acute Lung Injury: From Mechanotransduction to Molecular Therapies.  
Liu MY, Chen P, Han B: Canadian Institutes of Health for Research ($525,000 2006 - 2011.)

Honours Received

Keshavjee S:  Gail Darling Award for Best Undergraduate Teacher, Division of Thoracic Surgery, University of Toronto, June 2006.

Liu M:  Mel Silverman Mentorship Award, Institute of Medical Science, University of Toronto, May 2006.


**DIVISION OF UROLOGY**

Dr. A. Finelli - Assistant Professor  
Dr. N.E. Fleschner - Associate Professor (Division Head)  
Dr. M.M. Hassouna - Associate Professor  
Dr. M.A.S. Jewett - Professor  
Dr. A.G. Matthew - Assistant Professor  
Dr. S.B. Radomski - Associate Professor  
Dr. M. Robinette - Associate Professor  
Dr. J. Trachtenberg - Professor

**Publications**


**Carvey PM, Zhao CH, Hendey B, Lum H, Trachtenberg J, Desai BS, Snyder J, Zhu YG, Ling ZD:** 6 Hydroxydopamine-Induced Alterations in Blood-Brain Barrier Permeability. European Journal of Neuroscience: September 2005: 22: pp 1158-1168.


**Jewett MAS:** News from the CUA. Canadian Journal of Urology: December 2005: 12: pp 2871.


Invited Visits to Other Hospitals/Universities


Finelli A: Atlantic Health Sciences Corporation, Department of Urology, Saint John’s, NB, October 2005. Performed live laparoscopic radical prostatectomy for technical demonstration.


Jewett MAS: Surgical Wait Times Initiative Fall Meeting, King, ON, December 2005. Orchidectomy-Emergency or Not?


Matthew AG: Newmarket Prostate Cancer Support Group, Newmarket, ON, April 2006. Coping with Prostate Cancer.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A Phase 2 Trial of Vascular Targeted Phototherapy (Tookad) In Patients with Recurrent Prostate Cancer after Radiation. Trachtenberg J, Elhilali M, Wilson B: Steba Biotech ($300,000 2006 - 2007.)


A Randomized, Prospective Parallel Group Study to Investigate the Frequency of Urinary Tract Infections Comparing Hydrophilic-Coated Catheters with Uncoated Catheters for Intermittent Catheterization. Hassouna M: Coloplast Incorporated ($45,000 2006 - 2007.)


Development of a Prostate Cancer Prevention Clinic. Trachtenberg J, Ritvo PG, Paterson A, Squire JA, Yue CKK, Matthew AG: Princess Margaret Hospital Foundation ($1,000,000 2000 - 2009.)

Development of Novel Minimally Invasive Surgical Techniques. Trachtenberg J: Princess Margaret Hospital Foundation ($2,500,000 2003 - 2008.)

Dietary Heterocyclic Amines, Polymorphisms in Metabolism Genes and Risk of Prostate Cancer. Birket, N, Fleshner N, Malone S, Morash C: DOD (CDMRP) ($250,000 2004 - 2008.)

Effects of Botulinum-A Toxin versus Sacral Neuromodulation on Voiding Dysfunction in Rats Following Spinal Cord Injury: Role of C-Afferent Fibers in the Mechanism of Action in Both Treatment Modalities. Hassouna M: Medtronic Incorporated ($20,000 2006 - 2008.)


Identification of Prognostic Factors for Progression of Early Stage Renal Cell Carcinoma.  *Jewett MAS: Canadian Uro-Oncology Group* ($100,000 2004 - 2006.)


Prostate Cancer Prevention Clinic.  *Trachtenberg J, Matthew AG, Horsburgh S: Princess Margaret Hospital Foundation* ($1,000,000 2005 - 2011.)

Randomized Study to Investigate the Efficacy and Safety of Treatment with Dutasteride and Tamsulosin Once Daily for 4 Years on the Improvement of Symptoms and Outcome of Benign Prostatic Hyperplasia.  *Hassouna MM, Radomski S: Glaxo-Smith-Kline Pharmaceutical* ($15,000 2004 - 2008.)


Safety and Effectiveness of Denosumab in Patients with Hormone Resistant Metastatic Prostate Cancer.  *Trachtenberg J: Amgen* ($50,000 2005 - 2007.)

Safety and Effectiveness of Lapatinib in the Treatment of Hormone Resistant Prostate Cancer.  *Trachtenberg J, Moore M: National Cancer Institute (USA)* ($20,000 2005 - 2006.)

Self-Efficacy in Response to Dietary Counselling Related to Prevention of the Onset and Recurrence of Prostate Cancer.  *Currie K, Matthew AG, Ritvo PG: Princess Margaret Hospital Foundation* ($10,000 2004 - 2005.)


The Role of Androgen Ablation in the conditioning of Prostate Cancer to Photodynamic and Other Oxidative Stress-based Therapies.  *Wilson BC, Pinthus J, Trachtenberg J: Prostate Cancer Research Foundation of Canada* ($57,000 2005 - 2006.)

The Role of Self-Care in Risk Factor Management Among Incontinent Older Women: Development of an Evidence Based Self-Care Risk Factor Modification Tool for Urinary Incontinence.  *Holroyd-Leduc JM, Straus S, Radomski SB, Davis D, Lingard L: Dean's Fund University of Toronto* ($10,000 2005 - 2006.)


Honours Received

Jewett MAS: Awarded the Farquharson Chair in Kidney Cancer Research at the University of Toronto and the University Health Network 2005, January 2006.


Jewett MAS: Presidential Guest Speaker, South Central Section of the American Urological Association, September 2005.
DIVISION OF VASCULAR SURGERY

Dr. K.W. Johnston - Professor
Dr. T.F. Lindsay - Associate Professor
Dr. G. Oreopoulos – Assistant Professor
Dr. B.B. Rubin - Associate Professor (Division Head)
Dr. D. Wooster – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Johnston KW: Emory University, Atlanta, GA, February 2006. How Industry Influences the Reported Results of Clinical Trials. Robert B. Smith III Lecture.


Lindsay TF: Sanofi-Synthelabo, Toronto, ON, July 2005. TGH - Vascular Surgery Clinic Drug Use Data Guideline Update.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Molecular Regulation of Myocardial Cyclooxygenase-2-Expression and Prostaglandin Biosynthesis in Neonatal Rat Cardiac Myocytes. Rubin B: Canadian Institutes of Health Research ($461,000 2002 - 2007.)


Ruptured Abdominal Aortic Aneurysm: Molecular Mechanisms to Clinical Studies. Lindsay TF: The Physicians’ Services Incorporated ($162,000 2004 - 2006.)


**DIVISION of ANATOMY**

Michael J. Wiley - Chair

**Heads of Divisions**

- Dr. A. Agur - Associate Professor
- Dr. B. Ballyk - Lecturer
- Dr. C.M. Morshead - Assistant Professor
- Dr. J.A. Saint-Cyr - Professor
- Dr. P.A. Stewart - Professor
- Dr. I.M. Taylor - Professor
- Dr. M.J. Wiley - Professor (Division Head)

**Publications**


Invited Visits to Other Hospitals/Universities

**Agur A:** Teachers’ Meeting, Department of Family and Community Medicine, St. Michael’s Hospital, Toronto, ON, January 2006. Program for Advice and Support of Students (PASS) – Role in Supporting Students.

**Agur A:** Department of Physics, Ryerson University, Toronto, ON, March 2006. Musculoskeletal Research: Lumbar Multifidus and Supraspinatus.

**Morshead C:** Charles Tator and Barbara Turnbull Lectureship, Toronto, ON, October 2005. Engineering Healing: Stem Cells to Treat Spinal Cord Injury.

**Morshead C:** Challenges in Regenerative Medicine Symposium (ChaRM), Toronto, ON, October 2005. Endogenous Stimulation of Neural Stem Cells to Treat Stroke.

**Morshead C:** Developmental Biology Seminar Series, Zoology Department, University of Toronto, Toronto, ON, January 2006. Stem Cell Based Therapeutics in Regenerative Medicine.


**Morshead C:** Canadian Congress of Neurological Sciences, Montreal, QC, June 2006. Neural Stem Cells and their Clinical Applications.

**Wiley M:** TechKnowFile06, Toronto, ON, May 2006. Virtual Microscopy.

Research And Investigations

*Senior Investigator’s Name Appears in Italics*


Approaches to Self-Repair: Characterizing the Endogenous Responses of Neural Stem Cells Following Brain Injury. *Morshead C: Premier’s Research Excellence Award* ($100,000 2004 - 2009.)


Examining the Function and Regulation of Adult Mammalian Neural Stem Cells. *Morshead C: Canadian Institutes of Health Research* ($99,399 2005 - 2006.)


Regenerative Medicine Strategies for Spinal Cord Injury Repair: Integration of Stem Cell Biology, Nanotechnology, Bioengineering Approaches and Neurosurgical Application. Fehlings MG, Morshead C: Canadian Institutes of Health Research ($1,500,000 2004 - 2007.)

Regulating Adult Neural Stem Cells Using In Vivo and In Vitro Manipulation. Morshead C: Canadian Institutes of Health Research ($330,000 2005 - 2008.)


The Role of EPO in Regulating Neural Stem and Progenitor Cells. Morshead C: Janssen-Ortho Biotech. ($30,000 2004 - 2005.)

The Therapeutic Potential of Adult Neural Stem Cells. Morshead CM: Connaught Foundation ($20,000 2003 - 2005.)

Honours and Awards

Taylor I: Awarded the E. Mary Hollington Award for teaching with distinction in the Undergraduate Preclinical Curriculum. May 2006

Wiley M: Awarded the Harry Whittaker Memorial Award. May 2006
Publications


Invited Visits to Other Hospitals/Universities


Research and Investigations

Senior Investigator’s Name Appears in Italic


Validation of Tensiometry as a Measure of Technical Skill Performance. Dubrowski A, Xeroulis G, Woodrow S, Reznick RK: Royal College of Physicians and Surgeons of Canada Medical Education Research Grant ($22,375 2005 - 2006.)
CROSS APPOINTMENTS

Dr. A. J. Baker – Assistant Professor (Anaesthesia)
Dr. P. Birek - Associate Professor (Dentistry)
Dr. A. Campbell - Lecturer (Medicine)
Dr. J. Carson - Assistant Professor (Family and Community Medicine)
Dr. A. Damyanovich - Assistant Professor (Medical Imaging)
Dr. J.E. Davies - Associate Professor (Dentistry)
Dr. W.A. Demajo - Assistant Professor (Anesthesia)
Dr. F. DiCosmo - Associate Professor (Botany)
Dr. R.J. Eby - Lecturer (Medicine)
Dr. V.L. Fornasier - Associate Professor (Laboratory and Pathobiology)
Dr. R. Gilbert - Assistant Professor (Otolaryngology)
Dr. M. Greenberg - Associate Professor (Pediatrics)
Dr. M.D. Grynpas - Associate Professor (Laboratory Medicine and Pathobiology)
Dr. P.J. Gullane - Professor (Otolaryngology)
Dr. B. Harvey - Assistant Professor (Public Health Sciences)
Dr. J. Irish - Professor (Otolaryngology)
Dr. G. Jackowski - Assistant Professor (Laboratory Medicine and Pathobiology)
Dr. M.G. Johnston - Associate Professor (Laboratory Medicine and Pathobiology)
Dr. W. Kucharczyk - Professor (Medical Imaging)
Dr. M. Lee - (Anatomy)
Dr. G.A. Levy - Professor (Medicine)
Dr. C. Lumsden - Professor (Medicine)
Dr. A. McDonald - Assistant Professor (Medicine)
Dr. D.A.G. Mickle - Professor (Laboratory Medicine and Pathobiology)
Dr. M. Milner - Professor (Rehabilitation Science)
Dr. W. Montanera - Assistant Professor (Medical Imaging)
Dr. S. Narod - Associate Professor (Public Health Sciences)
Dr. C.D. Naylor - Professor (Medicine)
Dr. M. Ojha - Assistant Professor (Rehabilitation Sciences)
Dr. K.P.H. Pritzker - Professor (Laboratory Medicine and Pathobiology)
Dr. P. Ritvo - Assistant Professor (Public Health Sciences)
Dr. A. Romaschin - Associate Professor (Laboratory Medicine and Pathobiology)
Dr. A. Slutsky - Professor (Medicine)
Dr. B. Steinhart - Instructor (Medicine)
Dr. K.G. terBrugge - Professor (Medical Imaging)
Dr. R. Willinsky - Associate Professor (Medical Imaging)
Dr. G.J. Wilson - Professor (Laboratory Medicine and Pathobiology)