DEPARTMENT OF SURGERY ANNUAL REPORT

July 1, 2007 – June 30, 2008

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Dr. R.K. Reznick

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Dr. S. Herschorn – Martin Barkin Chair in Urological Research
Dr. T. Lindsay – Vascular Surgery
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As you know, this past year marked a formal review of the Department by Garth Warnock from UBC and Jonathan Meakins from Oxford. When reading the report, I must say I was so proud to be a member of this great Department. Our reviewers commented that the stature of the department remains extraordinary as the leading Canadian university Department of Surgery and amongst the top ten internationally. Our department was lauded for its teaching programs and congratulated for our research accomplishments. Our reviewers were incredibly impressed by the harmony in our collegium and the common ground between our University and our teaching hospitals. So when Dean Whiteside asked if I would accept a re-appointment for another five years, I took a deep breath, prepared myself for another marathon, and gave her a resounding yes.

This past year has been a busy one. We have recruited another nineteen surgeons to the department, making the total number of new faculty in the last six years 74. During this academic period, we have welcomed to this Department Claudio Cina (vascular surgery SMH), Sean Cleary (general surgery UHN), Leodante da Costa, Jr. (neurosurgery SHSC), Ben Deheshi (orthopaedic surgery MSH), Andrew Dueck (vascular surgery SHSC), Darlene Fenech (general surgery SHSC), Rajiv Gandhi (orthopaedic surgery UHN), Ethan Grober (urology WCH and MSH), Stephan Hofer (plastic surgery, UHN), Karen Johnston (neurosurgery TRI), Wolfgang Kuebler (scientist SMH), Loch Macdonald (neurosurgery SMH), Markku Nousiainen (orthopaedic surgery SHSC), Mark Peterson (cardiac surgery SMH), Oleg Safir (orthopaedic surgery MSH), Tom Schweizer (scientist SMH), Shar Shahrokhi (plastic surgery SHSC), John Theodoropoulos (orthopaedic surgery MSH and WCH) and Christian Veillette (orthopaedic surgery UHN).

This past year we celebrated a number of individuals who received academic promotion. Joining the ranks of Professor are Drs. Terry Axelrod, Lee Errett, Avery Nathens and Michael McKee. Promoted to Associate Professor were Drs. David Backstein, Nancy Baxter, Peter Chu, Robert Cusimano, David Fisher, Abhaya Kulkarni, Calvin Law, Robert Nam and Albert Yee. Elevated to the rank of Assistant Professor were Drs. George Vincent, Paul Wong, Amr El-Maraghy, Daniel Whelan and Markku Nousiainen.

This next year will see many challenges. One of the most critical issues will be the process of undergraduate curriculum renewal. It appears that we may be headed for some profound changes. To a large extent, changes will be driven by internal perceptions of our social responsibility. It will also, no doubt, provoke and highlight some inevitable tensions that will shape the debate around a focus for our medical school and what type of physician “product” we hope to produce. We will need to inspect our admission policies. With residency becoming longer and longer, with specialty fellowships becoming the rule rather than the exception, and with second or third entry to our medical school commonplace, we will have to analyze the relative societal merits of graduating older versus younger physicians. We need to examine the focus of a new curriculum in the sharpest debate being the issue of generalism. While we all agree that the shortage of family doctors across Canada is of concern, one has to question if this issue should dominate as we contemplate changes for our future. We currently train more family physicians than any other medical school in the country and yet, unlike many other medical schools, one could argue that given our research and specialty infrastructure, we should be narrowing our focus on the complex. As well, the allocation of a specific number of curricular weeks to a department will be a point of contention. The last wave of curricular change resulted in an element of specialist disenfranchisement when systems-based teaching, for which specialists felt a fair degree of ownership, was replaced by PBL teaching and more generic courses that are taught by a wide spectrum of physicians and non-physicians. Whatever the approach, surgeons need to be vitally engaged in undergraduate education.

Early exposure to junior medical students is critical if we are to continue to attract the best and the brightest to surgery. If we don’t interact with them, serving as their advisors, teachers and role models, we will see a diminution in the popularity of surgery as a specialty. Just as important, we have a lot to teach our future colleagues. We have an array of skills that are critical to impart to our students. We know more about trauma, critical illness, cancer, cardiovascular physiology, wound healing, and nutrition than most. There is a closeness to our relationships with patients that is unrivaled in most other domains of medicine. Last, but certainly not least, a surgeon’s job is the most exciting and gratifying of any of the medical professions. We need to pass on this excitement to our students.

A final question as we fashion a new curriculum will be whether social issues (the afflictions of hunger, poverty, torture, war, and abuse) should gain further expression in our curriculum and, if so, at the expense of what. For instance, should these issues divert curricular time away from the field of transplantation because, in comparison to the number of individuals who will have transplants, the numbers affected by the above-mentioned afflictions are staggeringly imbalanced? To a large extent, our future curriculum should be dictated by our vision and mission. It is my view that, above all, our goal should be for all of our graduates to have the skills, the potential and the desire to do something special, something unique.
As we approach 2009, it will be time to re-inspect our strategic plan, *Breaking through the Boundaries*. We have begun a process to analyze the extent to which we have reached our stated goals from 2004-2009 and, more importantly, define a measurable agenda for the next 4 years. Many challenges lay ahead. The global financial crisis will no doubt impose restrictions with which will have to cope. We will have to contend with the ramifications of the abolition of mandatory retirement if we want to continue on our torrid pace of recruitment and renewal. We will have to come to grips with the current debate surrounding industry involvement in our academic enterprise. We will need to be creative as we approach an era wherein there will be a blurring of the lines between surgery and other procedure-based interventional specialties. We need to push forward with our research agenda, being mindful that attracting high-level external grants will be increasingly challenging. We need to be successful in mounting our experimental curriculum in orthopaedics which will deploy a competency-based model of education for three residents starting July 2009. We will need to protect our surgical scientist program by elaborating a financially sustainable model combined with ramping up our already substantial fundraising program. We will need to be mindful of our postgraduate training missions, balancing residency education with fellowship training. We will need to cement relationships with partially affiliated hospitals as we purposefully expand our residency programs. And we will need to continue to keep in sharp focus our principle mission of caring for patients, making their positive outcomes our first priority.

Without a doubt, we can do it. If this past six years as Chair has taught me anything, it is that our most important commodity is our talented and dedicated faculty. We belong to an incredible department. By any benchmark, by any standard, in all of our reviews, this Department stands tall in academic surgery.
Both clinician and non-clinician faculty members in our department continue in our strong tradition of research excellence. There are over forty non-clinician scientists (NCS) appointed in our department. These individuals are working in the broad range of disciplines represented by the full scope of our departmental activities. The accomplishments of our NCS are quite remarkable as they account for a substantial proportion of our total research activities. Andras Kapus, our Associate Vice-Chair Research, has worked hard to better integrate our NCS into our department. He met with all of our NCS and instituted a number of new initiatives which will help build a stronger, more supportive, research environment.

As 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 program was initiated three years ago to provide graduate level training in non-traditional streams. Five residents have now graduated from the program. One of the graduates, Gilbert Tang, won both the Harvard Business School’s annual Business Plan Contest and the MIT $100K Entrepreneurship Competition for his proposal to develop low cost diagnostics to developing countries based on new technologies.

Research funding is challenging in this era of shortfalls in the amount of funding available from the federal government. Despite such challenges, our research productivity continues to grow at an astonishing pace. There have been hundreds of publications from our faculty members this past year, including some in the highest impact journals. Our faculty has given research presentations throughout the globe and participated in over a hundred national and international research meetings. Despite the increased competitiveness of research funding from the Canadian Institutes of Health Research, the department continues to receive increasing support from this agency, with over $8,500,000 in funding received this past academic year. Our total research funding continues to exceed that of even many of the Universities in Canada, exceeding $30,000,000 this year. This funding is not limited to one division or one hospital, but is distributed throughout the faculty, showing the strong integration of research throughout the entire department.

The Surgeon Scientist Program continues to grow, with over forty residents participating this year. Over 80% of our Surgeon Scientist Program participants were successful in receiving full or partial salary support from external granting agencies. Johnson & Johnson Medical Products continues to support the Surgeon Scientist Program, providing funding to four trainees this year (Mitesh Badiwala, Kristen Davidge, Adrian Laxton, Jensen Tan).

The theme for our 34th Gallie Day was oncology research. There were talks by trainees in our Surgeon Scientist Program and non-residents training with our faculty. The broad range of topics and types of trainees highlighted the diverse, yet high quality, research being conducted in our department. Steve Gallinger, Ab Guha, Robert Nam and Jay Wunder spoke at a symposium entitled “Cutting for Cancer: A Role of Surgeons in Oncology Research.” The exciting advances in oncology research from our department were complimented by the Gordon Murray Lecturer, Dr. Randy Rossier, from the University of Rochester Medical Center, who spoke on the role of surgeons in basic science research.

The Gallie Bateman Award for best work by a trainee in the Surgeon Scientist Program went to Betty Y.S. Kim “Nanoparticle-mediated cellular response is size-dependent” (Supervisors: Warren C.W. Chan and James T. Rutka), with a three-way tie for second place to Kristen Davidge “Patient expectations for surgical outcome in extremity soft tissue sarcoma” (Supervisor: Aileen Davis); William S. Johnson “Complement mediated organ dysfunction after ruptured abdominal aortic aneurysm: Mechanistic evidence from mice and humans” (Supervisor: Thomas F. Lindsay), and Isaac Moss “Biomechanical and biochemical evaluation of a novel hyaluronan/elastin-like polypeptide composite scaffold for nucleus pulposus tissue engineering” (Supervisors: Kimberly Woodhouse, Cari Whyne, and Albert Yee).

There was a tie for first place for the McMurrich Award, given for the best fundamental science work by any level trainee working with a member of our department. This went to Marcelo Cypel “Ex vivo repair of human donor lungs for transplantation” (Supervisors: Shaf Keshavjee, Mingyao Liu, and Thomas K. Waddell) and Paul Northcott “Multiple recurrent genetic events converge on control of histone lysine methylation in medulloblastoma” (Supervisors: James T. Rutka and Michael D. Taylor).

There was also a tie for second place, with awards give to Kathryn Ottolino-Perry “Spheroids: Characterization of oncolytic vaccinia virus infection and anti-tumour effects in 3-dimensional in vitro tumour models” (Supervisor: J. Andrea McCart) and Amparo Wolf “The glycolytic switch suppresses mitochondrial regulation of apoptosis and oxidative phosphorylation in glioblastoma multiforme” (Supervisor: Abhijit Guha). There was a five-way tie for third place: Yosz Z. Haffani “PLK4 regulates the localization of ECT2 and the activation of RHOA at the spindle midbody to promote cytokinesis” (Supervisor: Carol J. Swallow); Carla Rosario “PLK4 haploinsufficiency mediates chromosomal instability and umorigenicity” (Supervisor: Carol J. Swallow); Elissa Tepperman “The effect of calcineurin inhibition on vasomotor function and visfatin expression” (Supervisor: Vivek Rao); Amy P. Wong “Identification of a novel epithelial-like bone marrow stem cell that can repopulate the airway epithelium” (Supervisor: Thomas K. Waddell); and Colleen Wu “Mesenchymal progenitor cells are involved in the formation of aggressive fibromatosis” (Supervisor: Benjamin A. Alman).
The Wyeth Awards for best clinical epidemiology or education based research poster was awarded to Karen M. Cross “Redefining the gold standard and establishing a grading system for tissue injury” (Supervisor: Joel S. Fish) and Deepa Kattail “The influence of age and comorbidity in the clinical outcomes in patients with acute spine trauma: Experience of a single acute care unit in Ontario” (Supervisor: Michael G. Fehlings).

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: Michael D. Taylor who received the Bernard Langer Surgeon Scientist Award (given to the most outstanding graduate of the Surgeon Scientist Program); Cindi Morshead who received the George-Armstrong Peters Prize (awarded to a young investigator); Joel Fish who received the Charles Tator Surgeon Scientist Mentoring Award; and Shaf Keshavjee who received the Lister Award (awarded for excellence in research by a senior investigator).

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.

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 in the past year. In the upcoming years, our research activities will continue to grow with new avenues of investigation being developed and with improvements in our research infrastructure to increase the breadth and depth of our work, ultimately improving the outcome for our patients.
The 2007-2008 academic year again proved to be a year rich in educational achievement for our department. The 6 direct entry programs (Cardiac Surgery, General Surgery, Neurosurgery, Orthopedic Surgery, Plastic Surgery, and Urology), and our 5 subspecialty surgical programs (Thoracic Surgery, Vascular Surgery, Pediatric General Surgery, Colorectal Surgery, and General Surgery Oncology) all continue to produce the finest surgeon graduates. The Program Directors and the Program Coordinators of our 11 programs merit recognition of their efforts. This list includes: Dr. David Latter and Ms. Willa Hart of Cardiac Surgery, Dr. Najma Ahmed and Ms. Miriam Strzinar of General Surgery, Dr. Chris Wallace and Ms. Sandi Amaral of Neurosurgery, Dr. Bill Kraemer and Mr. Dan Stojimirovic of Orthopedic Surgery, Dr. Mitch Brown and Ms. Kathy Pavlovic of Plastic Surgery, Dr. Robert Stewart and Ms. Maria Tersigni of Urology, Dr. Gail Darling and Ms. Lisa Spatafora of Thoracic Surgery, Dr. Thomas Lindsay and Ms. Leah Gabriel of Vascular Surgery, Dr. Ted Gerstle and Ms. Shannon Hannah of Pediatric General Surgery, Dr. Marcus Burnstein and Ms. Wendy Bell of Colorectal Surgery, and Dr. Carol Swallow and Ms. Jane Hanes of General Surgery Oncology. Dr. Ronald Levine, who serves as the Postgraduate Director, oversees this dedicated team.

All 6 of our direct entry program easily filled their 46 PGY 1 CaRMS match positions. The majority of our matches were with our top ranked applicants. Our subspecialty programs also had no problem attracting the top students in the country for our programs. The IMG program continues to grow and this past year we had applicants enter our teaching programs. Visa trainees also continue to grow in numbers in our department. With Canadian medical school graduates, Canadians from international medical schools and visa trainees, the department has 46 PGY 1 residents, with a total of 247 residents in training. This represents the largest training program in the country.

The educational curriculum extended to our residents is impressive. Each program has its own program of lectures, visiting professors, special educational events, and other innovative teaching endeavours. The reports from the 2007 Royal College Accreditation Visit and the October 2007 External Review Report of University of Toronto Department of Surgery both confirmed the exceptional quality of our teaching programs. This is further confirmed by the high success rate at Royal College exams and the successful careers, both clinical and academic, that our graduates have developed.

The University of Toronto Surgical Skills Centre at Mount Sinai Hospital continues to offer excellent teaching of surgical skills to our residents. Dr. Helen MacRae and the skills centre manager, Lisa Satterthwaite and her team, work hard to assist the acquisition of surgical skills by our trainees in an environment outside of the OR. All PGY 1s and 2s take the Principles of Surgery Core Surgery Lecture Series which is managed by Dr. Robert Mustard. The high success rate of our students at the Principles of Surgery Exam is a testament to the hard work of all who participate in the preparation of the Core Surgery Lectures for PGY 1s and 2s, and the POS practice exam. All PGY 1s also take the highly successful Advanced Trauma Life Support course run by Dr. Jameel Ali.

A series of education days such as Orientation for PGY 1s (run by Dr. Ron Levine), Surgeon in Society (run by Dr. Ron Levine), and Surgeon as Teachers for PGY 1s and 3s (run by Drs. Nicki Woods and John Murnaghan), are given to our residents to better prepare them for their careers in surgery.

The Surgeon Scientist Program continues to deliver world class educations in basic science, clinical epidemiology, and education research. These SSP residents earn higher level degree MSc or PhDs. The achievements of our surgeon scientist residents are celebrated at our annual Gallie Day.

The relatively new Surgeon Scholar Program is proving to be successful. This program is available for the surgery resident student who wishes to pursue scholarly achievement in non “scientific,” non traditional fields of study, such as MBA, law, or other fields.

Our Postgraduate Web Evaluation and Registration system (POWER) is proving to be effective in its mandate to insure that all postgraduate student evaluation and teacher evaluations are done in a timely and effective fashion. It has improved our ability to track performance achievements of students and teachers by allowing the systematic review of Intraining Evaluation Reports (ITERs) of students, and the Teaching Effectiveness Scores (TES) of our teachers. It is only with a better understanding of our strengths and weaknesses that we can improve our teaching. Dr. Nicki Woods, the department’s Director of Education Evaluation, assists us in achieving our educational mission.

The Department of Clinical Fellowship, established in 2006, is maturing in its educational mandate. The Department of Surgery has approximately 150 clinical fellows and some 30-40 research fellows at any one time. These fellows come from the four corners of the world. Their achievements, as a clinical fellow here in Toronto, and later as a surgeon in their home country, reflects directly on the University of Toronto. And so, appropriately, the education of the clinical fellows is now a more recognized contribution of our department members. On November 4, 2007, the Department of Clinical Fellows hosted the first Clinical Fellow’s Education Day. The event was well attended by over 60 fellows who heard insightful messages from Drs. Ori Rotstein, Hugh Scully and Robert Buckman. A new achievement award specifically for clinical fellows, sponsored by Dr. Zane Cohen, will be awarded for the first time this year.
The Centre for Faculty Development is a resource that members of our faculty continue to use. Many department members enroll in the various workshops, while some of our more energetic faculty enter the Stepping Stones Program or the Education Scholars Program. Dr. Pippi Salle is a proud graduate of the Education Scholars Program for 2008. I hope that more of our faculty will avail themselves of this important resource.

Dr. Ronald Kodama was awarded the 2008 Bruce Tovee Award for Postgraduate Teaching, while Dr. Peter Ferguson won the 2008 Bruce Tovee Award for Undergraduate Teaching. Dr. John Murnaghan won the 2008 Clinical Skills Centre Distinguished Educator Award. The 2008 D.R. Wilson Award for resident teaching of medical students was won by Dr. Melfort Boulton. Members of our faculty continue to win many educational awards from outside institutions and I will make special effort to track these accomplishments and report them to you in future annual reports.

The Banting Postgraduate Office has hired Robert Gardin to fulfill the role of Postgraduate Assistant looking after resident and clinical fellow affairs. Tess Weber, the Postgraduate Coordinator, continues to deftly manage all the issues of our postgraduate office. Carmela Calorendi looks after the undergraduates. Jean DeFazio has retired after many years of dedicated service.

Finally, we must recognize the contribution of Dr. John Bohnen who held the post of Vice-Chair of Education for many years before moving into the Dean’s office as Vice-Dean of Clinical Affairs. John was tireless in his work and deserves much credit for our present status as one of the premier sites in the world for surgical education.
The Surgical Undergraduate Education Committee (UEC) continued working on several ongoing, long-term projects as well as taking on many newer issues, throughout the 2007-08 academic year.

The Surgical UEC continued to work on the development of a program of objectives which will be incorporated into a more robust e-log system and achieve compliance with the educational directives (ED-2) of the LCME. With the help of several faculty members, objectives for all subspecialties have now been written.

A new mid-term feedback form was developed, approved and implemented this year. Faculty are asked to complete this simple form midway through all rotations. Mid-term feedback was mandated by the last LCME accreditation.

The Surgical UEC continued to monitor all post-rotation debriefings collected by Dr. Nicole Woods. A student driven “handbook of innovation” will be compiled using feedback from these interactions.

The UEC membership itself was re-evaluated this year and a series of new appointments were made. This was done in an effort to improve representation of all subspecialties on the Committee. New members include:

Dr. Eric Massicotte (Neurosurgery)
Dr. Melinda Musgrave (Plastic Surgery)
Dr. Robert Mustard (General Surgery)
Dr. George Christakis (Cardiac Surgery)

The Bruce Tovee Award in Undergraduate Teaching went to Dr. Peter Ferguson this year. The UEC congratulates Dr. Ferguson on this well deserved achievement.

Finally, the Surgical UEC would like to thank our two student representatives, Jennifer Boyd and Ron Somogyi. Both Jenn and Ron worked very hard this year in communicating the needs of their fellow students to us, and we are most grateful for their hard work.
The total research funding in the Division grew this year with new awards given to Paulo Koeberle from The Canada Foundation for Innovation Leadership Opportunity Fund, the Connaught New Staff Matching Fund and, in collaboration with Dr. Michael Fehlings, grants from the Canadian Institutes of Health Research and the Sangamo Pharmaceuticals Research and Development Fund. Dr. Koeberle’s lab focuses on the molecular mechanisms underlying neuronal degeneration and regeneration in the central nervous system. Dr. Cindi Morshead and her collaborators obtained new funding from The Heart and Stroke Foundation, the National Sciences and Engineering Research Council of Canada and the National Sciences and Engineering Research Council/Canadian Institutes of Health Research, Collaborative Health Research Projects Program (NSERC/CIHR, CHRP) for their work on the therapeutic potential of neural stem cells.

Dr. Cindi Morshead successfully underwent tenure review and was promoted to the rank of Associate Professor with tenure. Searches were begun to fill a tenure track position at the rank of Assistant Professor and a position in the Lecturer stream.

Retirement
Dr. Pat Stewart retired from the Anatomy Division as Professor Emerita after 31 years of distinguished service to the Faculty of Medicine. She is well known as a neuroscientist, and co-author of the texts Cranial Nerves in Health and Disease, and Autonomic Nerves: Functional Anatomy and Clinical Comments. Dr. Stewart served as co-Course Director for the Brain and Behaviour course in the medical program as well as Course Director for Neuroanatomy courses given to students in the Department of Speech and Language Pathology and in the Faculty of Arts and Science. She has been a faculty leader in developing multimedia to support medical education and has been a recipient of the John Ruedy Award for Innovation in Medical Education, the W.T Aikens Award for the Development and Use of Innovative Instructional Methods, and the Award for Excellence in Undergraduate Teaching in Life Sciences.

Awards
At the faculty’s annual Educational Achievement Celebration, Dr. Ian Taylor received the Harry Whittaker Memorial Teaching Award, Dr. Mike Wiley received the W.T Aikens Award for the Development and Use of Innovative Instructional Methods, and Dr. Patricia Stewart was given the Award for Excellence in Undergraduate Teaching in Life Sciences. Dr. Cindi Morshead was awarded the George Armstrong-Peters Prize at the Gallie Day Celebration of the Department of Surgery.
Introduction
As I approach the end of my ten-year tenure as Chairman of the Division, I can safely report that Cardiac Surgery in Toronto remains a world leader in clinical care, research and teaching.

Clinical Care
The Division underwent turbulent times. The clinical volume of cardiac surgery increased and then decreased. Due to an unprecedented demand for cardiac surgical procedures, the Division increased the number of procedures performed at all three adult hospitals until resources were strained at these institutions. Because wait times remained unacceptably long, the Division assisted the Ministry in opening three new centres in Central Ontario which required ten years. Drug eluting stents became popular at the same time that the new centres opened and the combination resulted in a significant decline in the number of coronary bypass procedures performed at the three adult hospitals. The number of valve procedures has increased significantly and the total volume of cardiac procedures has plateaued over the last three years. In addition, the surgeons developed new minimally invasive cardiac procedures. Surgery for arrhythmias has been expanded at all three institutions and has been championed by Dr. Gideon Cohen at Sunnybrook. Drs. Tirone David and Chris Feindel have pioneered minimally invasive aortic valve replacement (transapical and transvascular) at the Toronto General Hospital. All three institutions have expanded the indications for valve repair and have incorporated minimally invasive approaches. Robotic assisted and image-guided valve repair and replacement is being evaluated. Cardiac surgeons have developed catheter skills and embraced transvascular approaches to a variety of cardiac and vascular diseases. Our recent recruits are performing procedures we did not imagine ten years ago and their case mix is dramatically different. Hybrid procedures were first introduced at the Hospital for Sick Children and now are common at all of our institutions. We envision that the next generation will be cardiovascular interventionalists who will employ a combination of open, thorascopic, transvascular and image-guided procedures to minimally invasively repair and replace diseased vessels and organs to permit patients to return home within a week and return to work within a month. The new era in cardiac surgery promises to be very exciting.

Research
Cardiac surgical research has expanded exponentially during the decade. The Division dedicated the training program to produce outstanding academic surgeons and we have been extraordinarily successful. Clinical research has been coordinated by Dr. Stephen Fremes at Sunnybrook. The Hospital for Sick Children was awarded the Congenital Heart Surgeon’s Database, and Dr. Eugene Blackstone (a world-renowned clinical epidemiologist) was appointed to our Division. Basic research has been located at UHN (regenerative medicine) and St. Michael’s Hospital (vascular biology). Drs. Chris Caldarone and John Coles have productive basic research laboratories at HSC. The surgeons and scientists at all four hospitals publish extensively and have attracted outstanding peer-reviewed funding. In addition, CFI funding to our institutions has dramatically expanded the facilities and equipment available for our research.

Teaching
The Division has an extensive training program for one resident and a dozen fellows each year. Dr. David Latter has provided exceptional leadership for both the residency and the fellowship programs in Cardiac Surgery. The residents receive extensive academic training and every graduating resident has found a position in academic cardiac surgery in Canada or in the USA.

Summary
The Division overcame significant challenges with the decreases in volumes and elimination of the waiting lists for cardiac procedures. However, case numbers have stabilized and the surgeons have developed new minimally invasive procedures. The Division remains the most academically productive cardiac surgical unit in the world. Our residency program has produced a generation of surgeon scientists and the older surgeons continue to innovate and educate the world. We have extensive breadth and depth to our academic programs. However, we have changed the procedures we perform and, with our new recruits, we are performing an array of new, hybrid procedures. Our residents and fellows will continue to establish a new specialty of cardiovascular interventions.

Recruitment and Promotion
Dr. Mark Peterson was recruited to St. Michael’s Hospital in July, 2007. He completed his academic training with Dr. Tom Waddell and then pursued a fellowship in intravascular interventions in Phoenix. He has established a combined program in cardiovascular intervention with Vascular Surgery and Radiology at SMH. Dr. Lee Errett, the Head at SMH, was promoted to Full Professor and Robert J. Cusimano at TGH was promoted to Associate Professor.
Royal College Fellowship
Drs. Nimesh Desai and Abdullah Alghamdi successfully passed their Royal College Fellowships.

Staff Appointments
Dr. George Christakis was appointed Director of Undergraduate Teaching for the Division of Cardiac Surgery and Dr. Subodh Verma received a Tier II Canada Research Chair in Atherosclerosis at the University of Toronto.

Resident Awards
Dr. Anusha Jega was awarded the John W. Kirklin Fellowship at the Hospital for Sick Children and Drs. Mitesh Badiwala and Khaled Al-Garni received Resident Travel Awards.

Visiting Professors
Drs. Dennis T. Mangano, a cardiac anesthesiologist, and Eugene Braunwald, a legendary cardiologist, gave lectures in October. Dr. John Ikonomidis returned to Toronto as a Visiting Professor in April. John completed his General Surgery training and his PhD in Toronto and is now a rising star in academic cardiac surgery. Dr. T. Bruce Ferguson, the Director of the Society of Thoracic Surgery Database, visited in May. Dr. Joseph Wu, a cardiologist and molecular imaging expert, visited in June. The Terrence Donnelly Cardiac Surgery Residents Research Day was a resounding success in April.
Accomplishments

The most significant change in our administrative structure was the appointment of Najma Ahmed as the new Program Director in General Surgery. Stan Feinberg was appointed as the Assistant Program Director, and Ms. Miriam Strzinar is our new Administrative Coordinator. We thank Lorne Rotstein for his seven-year service as the Program Director in General Surgery as well as Jaime Escallon and Jan McEvoy as the former Assistant Program Director and Administrative Coordinator, respectively.

Najma has already made significant structural changes in the program. She has developed a new rotation template that is now in place and which has added a degree of security and transparency within the program.

Resident Training

The CaRMS Match took place in February/March 2008 and successfully attracted 12 of our highest ranked students from literally across the country. Included in this group of individuals are two international medical graduates. In addition, we took two transfers into our PGY II class as well as one practice-ready individual.

Accepted into the PGYI year are the following

Nathalie Adabachi  Universite de Sherbrooke
Thamer al Abassi  National University of Ireland (Dublin)
Gregory Bodie  University of Sydney, Australia
Christopher Daigle  Memorial University of Newfoundland
Charles de Mestral  McGill University
Milan Ernjakovic  University of Novi Sad, Serbia
Nicholas Gaudet  Dalhousie University
Hameed Usmann  University of British Columbia
Marvin Hsaio  University of Toronto
Stewart Lo  University of Toronto
Chloe McAlister  Dalhousie University
Megha Suri  University of Western Ontario
Luke Szbotu  Queen’s University
Julian Winocur  McGill University
Boris Zevin  University of Toronto

The two transfers into our PGYII class were:

Steve MacLellan  University Western Ontario
Carmen Mueller  University of Toronto

The practice ready surgeon is Maghsood Seddigh, from Shiraz University (Iran).

Congratulations to all of our General Surgery residents who not only completed the General Surgery Training Program for 2007-2008 but also passed their Royal College examinations. These are Zohair Al-Hariri, Tim Cheang, Eda Deliallisi, Frank Eng, Philippe Garzon, Veena Guru, Michael Ko, Steven Lopushinsky, Ahmed Nasr, Brian Pinchuk, George Rabbat, Sundeep Rai, Danny Ramzy, Tanya Zakrison.

New Faculty

Recruitment is still active this year in our division. The following members were recruited during the 07-08 year.

Sean Cleary  University Health Network
Darlene Fenech  Sunnybrook Health Sciences Centre
Sharifa Himidan  Hospital for Sick Children/North York General Hospital

I omitted Sharifa in last year’s report as this is her second year.
Promotions 07-08

To Associate Professor
Claire Holloway
Robert Mustard
Sandro Rizoli
Lloyd Smith

To Assistant Professor
Stan Feinberg

Promotions 08-09

To Associate Professor
Nancy Baxter
Calvin Law
Peter Chu

To Full Professor
Avery Nathens

Gallie Day Awards 2008

McMurrich Awards- Poster Competition
Kathryn Ottolino-Perry  Supervisor: J. Andrea McCart
Yosz Z. Haffani  Supervisor: Carol J. Swallow
Carla Rosario  Supervisor: Carol J. Swallow

Faculty Honours/ Awards/ Positions Held

Paul E. Bernick: Dr. John H. Fowler Excellence in Teaching Award
Marcus Burnstein: President of the Canadian Society of Colon and Rectal Surgeons
Mark Cattral: Promoted to the rank of Senior Scientist with the Toronto General Research Institute
Jaime Escallon: Masters of Columbian Surgery
Annie Fecteau: American Pediatric Surgical Association – Chair, Ethics and Advocacy Committee
David Grant: President, International Intestine Transplant Society
Richard Hart: Ernie Spratt Resident Teaching Award - St. Joseph’s Health Centre
Peter C.W. Kim: Advanced Health Leadership Program Scholarship at the Rotman School of Business; Vice-Chair, Section on Surgery Program Committee, American Academy of Pediatrics
Bernard Langer: Global Impact Award from University Health Network
John Marshall: President of the Surgical Infection Society; Chair, International Sepsis Forum; Chair, Canadian Critical Care Trials Group
J. Andrea McCart: Patent – Combined growth factor-deleted and thymidine kinase-deleted vaccinia virus vector, United States of America
Robin S. McLeod: 2nd Vice President, American Surgical Association (ASA); Treasurer, Society for Surgery of the Alimentary Tract
Avery Nathens: Medical Director of Criticall Ontario; Chair, National Trauma Databank (American College of Surgeons)
Allan Okrainec: Frank Mills Award for Excellence in Teaching by a General Surgery Faculty Member
Michael Reedijk: Scientist, Campbell Family Institute for Breast Cancer Research/Ontario Cancer Institute and Department of Medical Biophysics; University Health Network Society of University Surgeons Junior Faculty Award
Richard Reznick: Re-appointed as R.S. McLaughlin Professor and Chair; Chair, Board of Directors, Association for Surgical Education
Sandro Rizoli: de Souza Chair in Trauma Research, Sunnybrook Health Sciences Centre and University of Toronto Best Speaker Award for the Principles of Surgery Lecture Series, Department of Surgery; CIHR/SME (Canadian Institutes of Health Research/Small and Medium Enterprise) New Investigator Award; Chair of the Committee on Trauma, American College of Surgeons; Secretary, Trauma Association of Canada (TAC)
Ori Rotstein: Institute of Medical Sciences (IMS) Course Lecturer Award

Andrew J. Smith: Marvin Tile Award for distinguished service in surgery; Chair, Colorectal Cancer Management Team, Cancer Care Ontario

Lloyd Smith: Best Surgical Teacher Award for the Family Medicine Department; St. Joseph’s Hospital Teaching Award for Surgery

Homer Tien: National Practice Leader, Trauma, Canadian Forces, Ottawa; Chair, Medical Advisory Committee for Special Operations, Department of National Defense, Canada

David R. Urbach: Program Chair, Canadian Surgery Forum, Canadian Association of General Surgeons (CAGS); Renewal of appointment as Scientist for three years with the Toronto General Research Institute

Paul Wales: Best Clinical Paper – Canadian Association of Paediatric Surgeons (CAPS), 39th Annual Meeting

Resident Honours, Awards and Positions Held

Anna Bendzsak: Ontario Medical Association Resident Achievement Award

Ivan Diamond (supervised Paul Wales and Brian Feldman): First Prize – Josie Walther Memorial Clinical Science Research Competition, The Hospital for Sick Children; 2nd prize - Resident Clinical Paper Award, Canadian Paediatric Surgical Association

Varun Kapila: Harrison Award for Resident Teaching (Sunnybrook)

Steve Lopushinsky: Covidien Resident Award for Teaching Excellence (Canadian Association of General Surgeons); Harrison Award for Undergraduate Teaching (Sunnybrook)

Alexandra Mihailovic (supervised by Peter Coyte): 1st Prize at the Annual Resident Trauma Papers Competition held by the American College of Surgeons Committee on Trauma

Ahmed Nasr: Resident Award for Teaching Excellence (Canadian Association of General Surgeons)

Brian Pinchuk: Bernard Ghert Award for Resident Excellence in Patient Focused Care

Jensen Tan (supervised by Calvin Law): Canadian Society of Surgical Oncology Best Paper Award; The Physicians’ Services Incorporated Foundation Resident Research Award; Joseph M. West Family Memorial Fund Award; Gifford Scholarship

Patrick Tawadros (supervised by Ori Rotstein): Starr Medal by the Postgraduate Medicine Awards Committee, University of Toronto; 1st Place, Oral Presentation Award, Surgical Infection Society; 2nd Place, American College of Surgeons Trauma Resident Paper Competition, Basic Science Category; Postgraduate Medicine Awards Committee; Chisholm Memorial Fellowship; Elizabeth Arbuthnot Dayson Fellowship; Nellie L. Farthing Fellowship; William S. Fenwick Fellowship; Miriam Neveren Memorial Award; Joseph M. West Family Memorial Fund Award

Faculty and Resident Grant Capture

Canadian Institutes of Health Research:
Nancy Baxter (2x), John Bohnen, Sean Cleary, Ivan Diamond (supervisors: Wales P, Feldman B), Anna Gagliardi (2x), Steven Gallinger (2x), Robert Gryfe (2x), Peter Kim, Wey Leong, Gergely Lukaes (2x); John Marshall, Ian McGilvray, Sandro Rizoli, Ori Rotstein, Carol Swallow, David Urbach (2x), Paul Wales

National Cancer Institute of Canada:
Natalie Coburn/Calvin Law, Steven Gallinger, Carol Swallow

Georges Azzie: Society of American Gastrointestinal and Endoscopic Surgeons

Nancy Baxter: National Institute of Health, Ontario Ministry of Research and Innovation

Natalie Coburn: University of Toronto

Anna Gagliardi: Cancer Care Ontario, University of Toronto (x2)

Steven Gallinger: Lustgarten Foundation for Pancreatic Cancer Research,

Reginald Gorczynski: Heart and Stroke Foundation of Ontario, Public Works and Government Services Canada

David Grant: Heart and Stroke Foundation of Ontario

Claire Holloway: Ontario Cancer Research Network

Andras Kapus: Kidney Foundation (2x), Premier’s Research Excellence Award, National Sciences and Engineering Research Council

Calvin Law: Ministry of Health and Long Term Care

Wey Leong: Genome Canada, Canadian Breast Cancer Foundation

Andrea McCart: The National Colorectal Cancer Campaign

Avery Nathens: Canada Research Chair, Public Service Improvement Framework
Allan Okrainec: Canadian Association of General Surgeons, Society of the American Gastrointestinal and Endoscopic Surgeons, Health Technology Exchange and National Research Council

May Lynn Quan: Cancer Care Ontario, Canadian Breast Cancer Research Alliance, Canadian Breast Cancer Foundation (2x)

Michael Reedijk: Canadian Breast Cancer Foundation (2x), Weekend Walkers Breast Cancer Innovation Fund

Sandro Rizoli: National Institute of Health/Defence Research Development Canada; Defence Research Development Canada; The Physicians’ Services Incorporated Foundation, Novo Nordisk A/S; National Heart and Lung Blood Institute/Canadian Institutes of Health Research/Defence Research Development Canada/Heart and Stroke Foundation of Canada/National Institute of Health

Ori Rotstein: American College of Surgeons, National Institute of Health, University of Toronto

Katalin Szaszi: National Sciences and Engineering Research Council, The Kidney Foundation of Canada (2x)

Bryan Wells (supervised May Lynn Quan and David Urbach): Canadian Breast Cancer Foundation

Events

Our 42nd Update Course for General Surgeons and Residents was held on April 17-19, 2008. We had 494 registrants plus 54 speakers. Over 550 individuals took part. I want to thank our entire faculty for their outstanding presentations at our Update Course over the years. This course has become the largest general surgery meeting in the country. This year, Dr. Peter Marcello was our outstanding visiting speaker from the Lachey Clinic in Boston.

Once again, the Update Course in General Surgery Oncology in the Fall of 2007 was held at the Granite Club and drew excellent registration. The course was highly evaluated. I want to thank Andy Smith, Carol Swallow, Andrea McCart and those who participated in supervising the poster sessions. Jaime Escallon involved himself again this year in organizing the review course in surgery for senior residents from around the country. This course, for the third year in a row, has been held in conjunction with McMaster University. Our major academic event was the Annual Assembly for General Surgeons and Residents. This was held on May 29th at the South Building of the Metro Toronto Convention Centre. Dr. Norman Kneteman was the E.B. Tovee Lecturer. This year, awards for oral presentation and poster presentation were achieved by Jensen Tan, Lynn Mikula, Wigdan Al-Sukhni and Ivan Diamond. In addition, two new awards recognizing outstanding achievement by a resident member in our General Surgery Residency Program were awarded to Ivan Diamond and Anna Bendzsak.

Initiatives

Robin McLeod, once again, reported on the Best Practice in General Surgery Committee. This committee aims to develop and standardize evidence-based practices in the adult academic teaching hospitals. The committee members are Darlene Fenech, Anna Gagliardi, Avery Nathens, Marg McKenzie (Coordinator) as well as resident representatives, namely: Cagla Eskicioglu and Sean Forbes. Robin, Lorne Rotstein, Allan Okrainec, Paul Bernick and David Lindsay are the local hospital champions who filter information from the committee out to the teaching hospitals.

The goals of this committee are to standardize practices for residents and faculty where possible, by using collaborative, inclusive, best-evidence, multiple-iterative strategies for the implementation of evaluative component and research component for each of the initiatives involved. Initially, the committee will be looking at ways to standardize and reduce the incidences of surgical site infection, thrombo-embolic disease as well as wound closure techniques and bowel preparation.

We have also honoured our commitment to the surgical skills centre educational expansion for PGYII-V residents. The Skills Centre is under the direction of Helen MacRae. This year, there have been four PGYII Anatomy sessions, a PGYIII and IV Head and Neck session, Atom sessions, certification for the centre, and a PGYIII-IV Nissen and Foregut session.

Planned for the next academic year are the following: a PGYII-III Fundamentals of Laparoscopic Surgery certification, PGYII anatomy sessions and a PGYIII-IV Lap Colon, Lap Ventral Hernia, and Axillary Dissection courses.

The General Surgery Division at the University of Toronto remains outstanding in breadth and depth. It remains extremely strong and, certainly, the best of its kind in the country. I wish to personally thank all of the members for their cooperation and collaboration during this past academic year.
Resident Achievements

Royal College Examinations:
Fellows of the Royal College of Surgeons of Canada (FRCSC): Dr. Mel Boulton, Dr. Frank Farhadi, Dr. Bradley Jacobs, Dr. Todd Mainprize, Dr. Cian O’Kelly, and Dr. Mandeep Tamber.

Resident Research Awards (International/National):
Several residents received externally funded fellowships and awards during the year:
- **Ratan Bhardwaj** has been awarded the Krieg Cortical Kudos Award.
- **David Cadotte** received the Fitzgerald Academy, Faculty of Medicine, Resident Teacher Excellence Award.
- **Greg Hawryluk** obtained a 2-year renewal on a grant from the Craig H. Neilsen Foundation with Michael Fehlings; CNS/Synthes Spine Fellowship; Synthes CMF Neurosurgical Resident Travel Grant.
- **Betty Kim** received a National Cancer Institute of Canada Diamond Anniversary Student Research Award; AANS/NREF Research Fellowship Award; K.G. McKenzie Memorial Prize for Basic Science Research.
- **Paul Kongkham** won the Resident Research Award Competition of the American Academy of Neurological Surgery; and received a 3-year grant from the National Cancer Institute of Canada with James Rutka and Michael Taylor.
- **Karim Mukhida** won the Stem Cell Network Cross-Disciplinary Internship Award.
- **Cian O’Kelly** received a Congress of Neurological Surgeons (CNS)/Micrus Endovascular Neurosurgery Fellowship.
- **Ann Parr** won the Mayfield Basic Science Award, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.
- **Scellig Stone** received a CIHR Fellowship.

Resident Research Awards (University of Toronto):
- **Mel Boulton** won the D.R. Wilson Award for Best Undergraduate Teacher.
- **D.J. Cook** won the Alan R. Hudson Neurosurgery Resident Teaching Award.
- **Betty Kim** received a Joseph M. West Family Memorial Fund; Charles F. Fell Fund; Chisholm Memorial Fellowship; Javenthey Soobiah Scholarship; Pricewaterhouse Cooper Award; Dr. Thomas L. Friedlich Award; Restractomp Fellowship Award from The Hospital for Sick Children; first place Morley Prize; Gallie-Bateman First Prize Award for best resident research paper and presentation.
- **Paul Kongkham** tied for first place for the Morley Prize.
- **Adrian Laxton** received a Miriam Neveren Memorial Award; a Joseph M. West Family Memorial Fund; won the 1st place Horsey Prize.
- **Demitre Serletis** received a Chisholm Memorial Fellowship; the Elizabeth Arbuthnot Dayson Fellowship; the Nellie L. Farthing Fellowship; the William S. Fenwick Fellowship; the Miriam Neveren Memorial Award; a Joseph M. West Family Memorial Fund; the second place Morley Prize.
- **Sarah Woodrow** won the 2nd place Horsey Prize.

Faculty Achievements

Honours and Awards
- **Michael Cusimano** won the John Provan Outstanding Educator Award and the Alan R. Hudson Neurosurgery Faculty Teaching Award.
- **Peter Dirks** received an NCIC Award of Excellence in Cancer Research, The Terry Fox Young Investigator Award, and a 5-year grant from CIHR.
- **Michael Fehlings** was a co-PI on an AOSpine North America Young Investigator Research Grant awarded to Dr. Mark Erwin; awarded a two-year AOSpine North America Fellowship Award with Eric Massicotte; one-year grant from the McLaughlin Centre for Molecular Medicine; Basic Science Award; first and second place, from the Cervical Spine Research Society; first place Research Award in the Interurban Spinal Cord Injury Conference; 2-year grant from Sangamo BioSciences Inc.; 1-year grant from the McLaughlin Centre for Molecular Medicine with Charles Tator; 21st Century Grant from the Cervical Spine Research Society; 5-year award from the National Institutes of Health; obtained a 2-year renewal on a grant from the Craig H. Neilsen Foundation with Greg Hawryluk; 1-year grant from the Rick Hansen Man in Motion Foundation; 3-year award from the Heart and Stroke Foundation with Alexander Velumian; Wightman-Berris Academy Award for Individual Teaching Excellence, University of Toronto; 2-year grant from The Physicians’ Services Incorporated Foundation.
Ab Guha received a 1-year grant from National Brain Tumor Foundation; a 3-year NCIC grant; a 5-year grant from CIHR; a 2-year grant from the Brain Tumor Society (BTS) of North America; an RTOG Translational Research Seed Grant; a Schering-Plough Canada Unrestricted Educational Grant; a b.r.a.i.n. Child grant; a 4-year Ontario Institute of Cancer Research (OICR) grant; the Top 40 Alumni – 40 Year Anniversary, The University of Toronto, Mississauga; and a 2-year NCIC Grant.

Robin Humphreys won the Lifetime Achievement Award, AANS/CNS Section on Pediatric Neurological Surgery.

Karen Johnston has been elected to the position of President of Think First Canada.

Soheila Karimi received a Young Investigator Research Grant Award from the AO Spine North America (AOSNA);

Abhaya Kulkarni received a 5-year grant from the National Cancer Institute of Canada; 2-year PSI Foundation Grant.

Andres Lozano received The Order of Spain.

Loch Macdonald received a 1-year grant from the N.I.H.; a 2-year Physicians’ Services Incorporated Foundation Award; and another grant from The Physicians’ Services Incorporated Foundation.

Eric Massicotte was awarded a two-year AOSpine North America Fellowship Award with Michael Fehlings; 3-year CIHR operating grant.

James Rutka received a 3-year grant from the National Cancer Institute of Canada with Michael Taylor and Paul Kongkham.

Charles Tator is the recipient of the Arbor Award, University of Toronto; Think First Canada has established an annual Lecture Series entitled the “Dr. Charles Tator Annual Summit/Lecture Series on Injury Prevention;” 1-year grant from the McLaughlin Centre for Molecular Medicine with Michael Fehlings; 2-year Research Grant from the Multiple Sclerosis Society of Canada; Distinguished Service Award from the Think First Foundation.

Michael Taylor received a 3-year Sontag Foundation Distinguished Scholar Award; 3-year grant from the National Cancer Institute of Canada with James Rutka and Paul Kongkham; and the Bernard Langer Surgeon-Scientist Award.

Bill Tucker has been appointed as President of the Canadian Medical Protective Association; received an Arbor Award, University of Toronto.

Alexander Velumian received a 3-year award from the Heart and Stroke Foundation with Michael Fehlings; NSERC Grant.

Chris Wallace won an Aikins Award for undergraduate teaching, University of Toronto.

Gelareh Zadeh received a 3-year CIHR Award.

U of T Neurosurgery Lectureships

Dr. Douglas Kondziolka, University of Pittsburgh. Botterell Lectureship.

Dr. Serge Rossignol, University of Montreal. Charles H. Tator-Barbara Turnbull Lectureship.

Dr. Jacques Brotchi, President of the World Federation of Neurosurgical Societies. Keith Lectureship.

Dr. Ann Christine (Tina) Duhaime, Dartmough-Hitchcock Medical Center, Lebanon, New Hampshire. Hendrick Lectureship.

Dr. Peter Carmel, Professor and Chair of the Department of Neurological Surgery, University of Medicine and Dentistry of New Jersey, Guest Speaker. The Hospital for Sick Children.

City-Wide Rounds

Dr. Kim Burchiel, University of Oregon, Toronto Western Hospital.

Dr. Ben Warf, A.I. DuPont Hospital for Children, Wilmington, Delaware, The Hospital for Sick Children.

Dr. Gail Rosseau, The Chicago Institute of Neurosurgery and Neuroresearch, Toronto Western Hospital.

Dr. Robert Harbaugh, Penn State University and Milton S. Hershey Medical Center, Pennsylvania, Sunnybrook Health Sciences Centre.

Dr. Robert Rosenwasser, Thomas Jefferson University Hospital, Philadelphia, St. Michael’s Hospital.

Courses Offered at the Surgical Skills Centre

Lougheed Microvascular Course, April 7-11, 2008. Dr. Michael West, University of Manitoba, Guest Professor.


Spine Course, June 9-11, 2008. Dr. Eric Massicotte, Course Leader.

Publications by neurosurgery faculty and residents: 164

Visiting Professorships by U of T Faculty: 152
The 2007-2008 academic year marked a time of strengthening of our division’s plans to better integrate fundamental research into the orthopaedic division, and to develop a new educational curriculum. We had a record number of new recruits in the previous year, and these individuals are already working to improve our clinical, educational, and academic output. We welcomed two new recruits at the end of this academic year, Diane Nam and Jeremy Hall. Both are well known to most of the faculty as former residents in our program. Diane is an accomplished musician, having played with the Toronto Symphony Orchestra. In addition to all of these accomplishments, she has a master’s degree, and is completing postdoctoral training into the role of immune modulators in bone repair. She will be working at Sunnybrook, treating trauma, with a special interest in the upper extremity and will continue her research into the fracture repair mechanisms. Jeremy has been working as a clinical associate during the past few years at St. Mike’s. He is developing a research program using new image-guided approaches to trauma. Jeremy’s practice will focus on trauma, especially on pelvic fractures. We all welcome Diane and Jeremy to our faculty.

Congratulations to our faculty who were successful at academic promotion this year at the university. Mike McKee and Terry Axelrod were promoted to Full Professor; David Backstein and Albert Yee were promoted to Associate Professor; and Paul Wong and George Vincent were promoted to Assistant Professor.

Bill Cole and Cari Whyne, as co-Chairs of our Research Committee, are working hard at organizing the first cohort of residents who will enter their integrated research and clinical year. These residents can use this time towards a graduate degree in the surgeon-scientist program, thus providing a new path for an integrated graduate research training program.

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 Canadian Institutes of Health Research (CIHR) funding, our divisional members are continuing to seek alternative funding sources. Despite these challenges, we were successful in receiving 2.9 million dollars in new grant funding. Issac Moss received second prize in the Gallie-Bateman competition this year, for his work on a novel scaffold for tissue engineering an intervertebral disc (supervised by Kimberly Woodside, Cari Whyne, and Albert Yee.)

Our Graduation Day Visiting Professor was Daniel Berry from the Mayo clinic. He gave a fascinating glimpse into new advances in hip arthroplasty bearing surfaces at his Salter lecture. Graduating residents presented their research work to him during the main Graduation Day activities.

We presented two inaugural awards this year. The Lawson Award for Best Academic Resident, as adjudicated by a committee, went to Khaled Elfallah. Venessa Stas received the Messiemi Award for Most Compassionate Resident, voted on by the faculty; and the R.I. Harris Award for the Best Presentation at Graduation Day. The James Waddell Award for the Best PGY 4 Resident was awarded to Bill Ristevski. Unni Narayanan received the Divisional Award for Best Teacher as voted by the residents.

Kurt Spindler (Vanderbilt); Mark Erwin (Toronto); Nick Clarke (Salter visiting professor, Southampton General Hospital, UK); Brian Cole (Chicago); David Pichora (Queens); Kevin Hildebrand (Calgary); Darren Drosdowech (London); Jay Parvizi (Jefferson); John Birch (rank lecturer, TSRH); Graham King (London); and Rami Mosheiff (Hadassah University Hospital) all visited Toronto this year and gave University-wide grand rounds. In addition, Randy Rosier (Rochester University, Department of Orthopaedics) was the department’s Gordon Murray speaker at Gallie day this year.

We selected a new name for our Friday morning educational sessions: “Orthopaedic Principles” or “OP Day.” This was selected from submissions by Stewart Wright, Richard Hurley and Marilyn Heng (Up Day, Principles of Orthopaedics, and Bone Up Days - note that “OP” sounds like “UP.”) We also selected a new symbol/logo for the division, based on a previous design distributed by John Murnaghan, and drafted by Andrew Cabral.

Our faculty received a large number of awards which are too many to mention here, but one special award worth noting was the naming of Joe Schatzker to the order of Canada. We now have three of our divisional members who received this honor, more than any other orthopaedic division in the country.
Bill Kraemer is continuing his stellar job as our Program Director. In addition to recruiting stellar new residents, maintaining a top-notch residency, and a high pass rate at the Royal College examination, he worked to develop a new competency-based curriculum. This has been approved by the University and The Royal College and is on target for a 2009 start. I want to take this opportunity to thank Bill and all of our faculty members who worked on this initiative. This will be the first such curriculum, which will likely be a fundamental improvement over our current residency training model. We continue to have excellent fellowship programs, and there are more clinical fellows training in the division than residents. Albert Yee (Fellowship Director, Sunnybrook) implemented a number of new initiatives to streamline the various fellowship programs and improve integration of the fellows into the University community. The University of Toronto’s Division of Orthopaedic Surgery is continuing its long history of excellence in clinical care, teaching, and research. In upcoming years, the division will be working towards developing the first competency-based curriculum, increasing participation in research activities by its faculty and trainees, improved integration of clinical care across the city, and the development of novel improved educational approaches to clinical training.
The Division of Plastic Surgery has seen a great deal of activity and continued academic success in the past year. As one of the largest Divisions of Plastic and Reconstructive Surgery in North America, we continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

Appointments

Congratulations go to:

- Dr. Shar Shahrokhi appointed as Lecturer and Burn Surgeon at the Ross Tilley Burn Centre at Sunnybrook Health Sciences Centre
- Dr. Brett Beber at Toronto East General Hospital for his appointment as Lecturer
- Dr. Paul Binhammer appointed as Head of Plastic Surgery at Sunnybrook Health Sciences Centre
- Dr. Stefan Hofer appointed as Head of Plastic Surgery – University Health Network; Wharton Chair in Head and Neck Reconstruction; and Associate Professor, Department of Surgery
- Dr. Leila Kasrai appointed as Head of Plastic Surgery at St. Joseph’s Health Centre
- Dr. Mitchell H Brown for taking over from Dr. Ronald Levine as Program Director, Division of Plastic Surgery
- Dr. Joel Fish who took over from Dr. John L Semple as Research Director, Division of Plastic Surgery
- Dr. Dimitri Anastakis for being appointed Vice-Chair Specialty Committee in Plastic Surgery, RCPSC

Awards

Dr. Ronald M. Zuker won the 2007 Art of Listening Award. Dr. Zuker was nominated by the Moebius Syndrome Foundation and was selected from over 50 nominations of different positions.

Dr. Dimitri Anastakis received the 2008 Canadian Association for Medical Education Certificate of Merit Award for his contributions to medical education.

Dr. Joel Fish received the 2008 Charles Tator Award for Research at this year’s Gallie Day.

Dr. Karen Cross won (tie for 1st prize) the 2008 Wyeth Award: (Clinical Epidemiology/Education), Supervisor: Dr. Joel Fish, Title: “Redefining the gold standard and establishing a grading system for tissue injury.” Dr. Karen Cross also received Honourable Mention in the 2008 Gallie Bateman Award Competition, for the same project.

Dr. Kristen Davidge won second prize in the 2008 Gallie Bateman Award Competition. Supervisor:  Dr. Aileen Davis, Title: “Patient expectations for surgical outcome in extremity.”

Accomplishments

Dr. Cho Pang (Hospital for Sick Children) had his Canadian Institutes of Health Research (CIHR) grant renewed in the recent CIHR operation grant competition. In this recent round, CIHR only funded the top 16.1% of the applications. Dr. Pang’s grant was ranked in the top 7% and was renewed for 5 years!

2008 Hoyle Campbell Visiting Professor

This year’s Hoyle Campbell Visiting Professor was Dr. Steven J. McCabe from the University of Louisville.

At this year’s Visiting Professor, the award for Best Clinical Paper went to Dr. Laura Snell for her project titled: “Breast Implant Capsules and Subclinical Infection” and the Mentor Best Science Paper Award went to Dr. Vivek Panchapakesan for his project titled: “Level of Evidence in Plastic Surgery Journals.”

The recipients of this year’s Divisional awards included Dr. Mitchell Brown who received the W.K Lindsay Research Award and Dr. Oleh Antonyshyn who received the Arnis Freiberg Teaching Award.
Continuing Medical Education
The 38th Annual University of Toronto Symposium on Aesthetic Plastic Surgery was held from April 18-19, 2008 at The Sutton Place Hotel. The 8th Annual Toronto Breast Surgery Symposium was held on April 17, 2008 wherein Dr. J. Namnoum was the Royal College of Physicians and Surgeons of Canada lecturer and Dr. S. Spear was the Michael Drever Annual Lecturer. Both of these events were extremely well received and drew large gatherings.

The 2nd Craniofacial Symposium was held on the 9th and 10th of November 2007. The live surgery sessions were held at Sunnybrook Health Sciences Centre and the Hospital for Sick Children while the didactic sessions took place at the Westin Harbour Castle Hotel. The symposium was a great success.

This year’s Ralph T. Manktelow Hand Surgery Day was held on October 19, 2007. Dr. Kevin Chung was this year’s Visiting Professor.

Website launched
www.uottplasticsurgery.ca was launched on Friday – May 30, 2008. The website caters to members of the general public, media, corporate stakeholders, faculty, residents, fellows, staff, medical students and prospective students.

Training Program
All four residents graduated from the Program this year. They are Drs. Alexander Golger, Laura Snell, Nasser Al Hodaib and Vivek Panchapakesan.
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 Canada. The Toronto Lung Transplant Program continues to be an international leader in clinical activity and outcomes, having performed over 100 lung transplants in a year. The End Stage Lung Diseases Program, a multi-disciplinary endeavor with the Respiratory Division, continues to grow with integrated and 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 early diagnosis, staging and treatment of early thoracic malignancies, and has continued to advance 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. Pankaj Sengar. The RJ Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Andrew Pierre. The GE Darling Award for Excellence in Undergraduate Teaching was also awarded to Dr. Andrew Pierre. The Ross Fleming Surgical Educator Award at University Health Network for 2007-08 was awarded to Dr. Andrew Pierre. The 4th Annual Pearson Day was a tremendous success – highlighting the breadth of clinical and basic science research activity in the division. The award for Best Basic Science Paper was awarded to Dr. Masaki Sato for his project entitled “The lung becomes a lymphoid tissue after transplantation: A novel paradigm in transplant immunology.” (Supervisor: S. Keshavjee). The McMurrich Award was awarded to Dr. Marcelo Cypel for his project entitled “Ex-vivo repair of human donor lungs for transplantation.” (Supervisor: S. Keshavjee). Dr. Keshavjee was presented with the Lister Prize in Surgery at the 34th Annual Gallie Day.

The Lattner Thoracic Research Laboratories continue to be very successful with grant capture and publications. The principal investigators: Keshavjee, Liu, Waddell, de Perrot and Hwang (Pathology) work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology. Drs. Keshavjee, Liu and Waddell each maintain highly ranked Canadian Institutes of Health Research 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 group with grant capture and research productivity. 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. Dr. Keshavjee has been awarded the Wyeth Pharmaceutical/CIHR Research & Development Clinical Research Chair in Transplantation for studies on “Ex-vivo Gene Repair of Injured Donor Lungs for Transplantation.”

Our Clinical Research Program also continues to be very productive. Members of our group are significantly 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 continue to rebuild 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. Dr. Kazuhiro Yasufuku has been appointed to the position of Assistant Professor in the Division of Thoracic Surgery, University Health Network.

Additional Information
The visiting Professors to the Division of Thoracic Surgery for 2007-08 academic year were as follows:

February 15, 2008
Joel D. Cooper, MD
Chair, Division of Thoracic Surgery
University of Pennsylvania
Philadelphia, Pennsylvania
March 7, 2008
Philippe Dartevelle, MD
Head and Director, Department of Thoracic and Vascular Surgery & Heart
Lung Transplantation
Marie Lannelongue Hospital
Paris, France

May 23, 2008
Jean Deslauriers, MD
Professor, Division of Thoracic Surgery
Faculty of Medicine Laval University
Laval, PQ

June 13, 2008
Carolyn E. Reed, MD
Professor of Surgery
Chief, Section of General Thoracic Surgery
Medical University of South Carolina
Charleston, South Carolina
Academic Promotion

Dr. Rob Nam was promoted to Associate Professor.

Transitions

Dr. Tony Khoury left Sick Kids after 20 years for a position at the University of California, Irvine. Dr. Ethan Grober joined the division at Mount Sinai and Women’s College after completing a fellowship in Andrology at Baylor in Houston, Texas.

SickKids

Dr. Joao Pippi-Salle became the Site Chief of Urology at Sick Kids. He was an invited speaker, surgeon, and visiting professor in many locations around the world. These included Columbia, Kosovo, Brazil, Argentina, Italy, United States and Canada.

He also continued as Director of Continuing Professional Development for the Department of Surgery. He chaired the Annual Sick Kids Pediatric Urology Symposium.

Dr. Darius Bagli received funding for his project entitled “Epigenetic changes in uroepitelium following e-coli infection: New keys to understanding urinary tract infection susceptibility from the Hospital for Sick Children - Research Institute.” He was also the invited Slotkin Lecturer at the Northeastern Section of the American Urological Association’s Annual Meeting in Rochester, New York.

He became the Deputy Chief of Surgery at Sick Kids and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering. He received financial support for several of his projects - from the UofT Dean’s Fund and Sick Kids Foundation for “Quantitative MRI of Angiogenesis and Cellularization in Tissue Regeneration,” from the Cleveland Clinic Foundation for “Biologically Enhanced Fascia Lata for Soft Tissue Repair,” from the Ontario Research Fund for the Center for Computer-Assisted Intervention and Innovation; from BioDiscovery Toronto (BDT) for Physiologic Urinary Bladder Simulator (PUBS): novel urinary bladder bioreactor.

He organized and directed the Second Annual North American Pediatric Fellows Laparoscopy Course. He won the A.W. Bruce Faculty Undergraduate Teaching Award.

He was also an invited speaker in Finland and Calgary.

Dr. Armando Lorenzo continued his work in Clinical Epidemiology and minimally invasive pediatric surgery. He was an invited speaker in Argentina and Brazil. He won a Canadian Urological Association Scholarship Award for his project entitled: Patient Satisfaction and Predictors of Outcome in Hypospadias Repair: A Prospective Assessment.

MSH

Dr. Ethan Grober joined the staff at Mount Sinai and Women’s College and will focus on Andrology and research in education. He received a Canadian Urological Association Scholarship Award for his project entitled Intra-Operative Objective Structured Assessment of Technical Skill (OSATS): Correlation with Operative and Clinical Patient Outcomes

Dr. Keith Jarvi, site chief at MSH, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC). Dr. Jarvi again organized with Dr. Kirk Lo the Annual Robson Research Day Resident and Fellow scientific presentation contest. He addressed the Canadian Fertility and Andrology Society in Halifax.

He continued work on his project entitled “Use of seminal fluid protein patterns as biomarkers for diseases in the male reproductive tract: Prediction of spermatogenesis in men with azoospermia,” funded by the Physicians’ Services Incorporated. His co-investigators are K. Lo, E. Diamandis and B. Mullen.

Dr. Kirk Lo successfully passed his 3-year review and continued his basic infertility research in stem cells. He addressed the Reproductive Endocrinology Fellows in Training Enrichment (REFINE) Program in Banff, Alberta.

Dr. Alexandre Zlotta continued his position as Associate Editor of European Urology, one of the premier international journals in urology.

He was invited speaker and Visiting Professor in France, Greece, Spain, Czech Republic, Italy, Switzerland, Israel and the United States. He won Third Prize for the Best Abstract for Oncology at the European Association of Urology Conference in Milan, Italy.

**Sunnybrook**

**Dr. Lesley Carr** continued her work as an investigator in an NIH grant to evaluate the efficacy of amitriptyline for the treatment of painful bladder syndrome, and in an industry grant for the use of muscle stem cells in stress urinary incontinence. Dr. Carr was in charge of Journal Seminars for Urology residents.

**Dr. Sender Herschorn** continued as the Martin Barkin Chair in Urology.

He continued his clinical research in urinary incontinence, neurogenic bladder overactivity and erectile dysfunction. He was invited speaker and lecturer in North America, Brazil, China, Malaysia, Spain, Italy and The Netherlands. He also directed the 15th Annual U of T Urology Update. He won two awards for presentations at the Canadian Urological Association Meeting in Edmonton, Alberta.

He was elected Vice-President of the Canadian Urological Association and the Canadian Male Sexual Health Council.

**Dr. Laurence Klotz**, site chief at Sunnybrook, continued his research in Uro-oncology and his appointments including Editor-in-Chief of the Canadian Urological Association Journal. He continued as Chair of the CURC and the World Uro Oncology Federation (WUOF).

He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer with funding from NCIC, Ontario Cancer Research Network, CURC, CPCRF, CIHR. He was guest speaker and visiting professor in North America, the Philippines, France, Spain, UK, and Brazil.

He was elected President of the Canadian Urological Association.

**Dr. Ron Kodama** was appointed Interim Program Director. He organized the 5th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2008. He also won the Bruce Tovee Postgraduate Resident Teaching Award, the Peters-Boyd Clinical Teaching/Supervision Award, the Postgraduate Resident Teaching Award – Clinical, and the A.W. Bruce Undergraduate Teaching Award.

**Dr. Robert Nam** was promoted to Associate Professor and continued his research in the genetics of prostate cancer. He was an invited speaker at the SIU GU Oncology Conference in Cape Town, South Africa, and at an educational forum of the CUA in Quebec City.

He continued his work on his peer-reviewed projects and also received new grants. His current funding comes from NCIC and CIHR.

He received the prestigious Early Research Award from the Ministry of Research and Innovation of Ontario, for three years. He won the Royal College of Physicians and Surgeons of Canada College Medal Award in Surgery. He also won the Urology Faculty Postgraduate Teaching Award and the first Michael Jewett Postgraduate Lecture Award.

**Dr. Vasundara Venkateswaran** continued her basic research in prostate cancer projects funded by CIHR, CPCRF, and NCIC.

**UHN - TGH and PMH**

**Dr. Neil Fleshner** continued as site chief at the UHN. He continued his clinical and basic research in prostate cancer with many major peer-reviewed grants from DOD (CDMRP), Ontario Cancer Research Network, CIHR, OICR, CPCRF, CUA/CUOG and NIH.

He was invited speaker at meetings in the United States and Italy. He was on the Scientific Committee of the First World Congress on Controversies in Urology, Barcelona, Spain.

**Dr. Michael Jewett** continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. He continued his work under the CUA/CUOG Bayer Kidney Cancer Fellowship award for renal cell carcinoma. Other projects are funded by CIHR and ORCP ‘BioDiscover’ Stage I Business and Development.

He was awarded the Wyeth/CIHR Clinical Research Chair in Oncology. He was an invited speaker and/or visiting professor in Canada, the United States, Brazil, Italy, Switzerland, France, and Mexico.

A new divisional award for Best Lecturer to Residents at Urology School was named in his honour. **Dr. Rob Nam** was the first recipient.

**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 PMH, NCIC, NIH, CPRF and industry. He was invited speaker and Visiting Professor in New York, Austria, and Vancouver.

He co-chaired the 15th Annual Issues and Controversies in Prostate Care in Cancun, Mexico.

**Dr. Tony Finelli** successfully passed his three-year review. He continued his research projects in renal cancer and in men with negative biopsies for prostate cancer. He also received funding from the Faculty of Medicine for his project entitled “Does directed self-audit of urologists stimulate reflection and improved lymph node retrieval in patients with bladder cancer?”

He was invited speaker in Canada and Venezuela.
UHN - TWH

Dr. Magdy Hassouna continued his basic and clinical work in neurourology and neuromodulation. He was invited speaker at a meeting in Mexico and Visiting Professor in Quebec City. He received funding from the Ontario Neurotrauma Foundation.

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.

He won the Wightman-Berris Academy Award for Individual Teaching Excellence.

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. He was course director at a hands-on course at the American Urological Association (AUA) Meeting in Anaheim, California.

Dr. Kenneth Pace continued his work in clinical epidemiology, and on Stone disease and Minimally Invasive Surgery. Dr. Pace directed the 3rd Annual Advanced Laparoscopic Urology Course in advance of Urology Update 2007. He continued as the Fellowship Coordinator for the division of urology.

Dr. Robert Stewart continued as the principal urologist in the kidney transplantation program. He became Urology Residency Program Director and continued as Director of Undergraduate Surgery Education at St. Michael’s Hospital.

Academic Events & Awards

The Annual Charles J. Robson Research Day was held on April 3rd. The Visiting Professor was Dr. Dan Theodorescu, Professor of Urology at the University of Virginia in Charlottesville and a graduate of the University of Toronto Urology Residency Program.

There were over 25 presentations. Resident Clinical 1st Prize winners were Melise Keays, Bryce Weber and Robert Hamilton. Resident Clinical Honourable Mention Clinical were Sanoj Punnen and Paul Toren. Resident Basic 1st Prize were Sanoj Punnen and Girish Kulkarni. Fellow Clinical 1st Prize went to Geneviève Patry and Luis Braga. Fellow Basic 1st Prize went to Mireia Musquera and Fellow Basic Honourable Mention went to Ahmed Haddad.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Michael Kogon.

Drs. Doreen Chung, Jonathan Chan and Michael Kogon passed their Royal College Examinations.

Visiting Professors

Guests this year included Richard J. Babaian, MD (University of Texas), Gerry Brock, MD, (University of Western Ontario), Francois Haab, MD (University of Paris), Steven Kaplan, MD (Columbia), Pierre Karakiewicz, MD (University of Montreal), John N. Kreiger, MD (University of Washington), Victor W. Nitti, MD (New York University), Michael A. O’Donnell, MD (University of Iowa), Stephen Pautler, MD (University of Western Ontario), Claus Roehrborn, MD (Dallas Southwestern Medical School), Mark Soloway, MD (University of Miami), Urs E. Studer, MD (University of Switzerland).
Thank you. These are the words I express time and again to all of our tremendous supporters who make our success possible. I am referring especially to the success of our surgical trainees in the Surgeon Scientist Program and their supervisors. This past academic year, this support has been manifest in many ways. From the generous donation of an alumni who gives in gratitude for the start in life his education afforded him, to the grateful patient who gives in recognition of the life changing efforts of her surgeon, to the retired surgeon who returns to Gallie Day to join in celebration. All of this support drives our capacity for excellence in research, education and clinical practice.

The Surgical Alumni Association serves two roles: it strives to unite our valued alumni to strengthen their relationship with the University and each other, and it works in a fundraising capacity, raising funds for the renowned Surgeon Scientist Program and other campaigns so crucial to driving our collective success. This past academic year has seen renewed support from many of our alumni helping us to grow financially. For this we thank you and encourage you to continue your support.

This year we have seen yet more gifts by way of bequests and gifts of securities. This year the Department celebrated a $1,100,000 bequest to the Division of Orthopaedic Surgery from a very generous benefactor, a testament to the enormous impact we can make by leaving a legacy to surgical excellence. As more and more supporters become familiar with these powerful philanthropic tools with their attractive tax and estate benefits, we will likely trend toward more donations in this arena.

My years of service as President of the Surgical Alumni Association have been an honour. While my time as President is over, I am very pleased to continue my involvement under the leadership of our new Surgical Alumni President, Dr. Martin Barkin.

We are immensely fortunate to have such a renowned healthcare leader at the helm of the Association. Dr. Barkin was both President and CEO at Sunnybrook Health Sciences Centre and Chair of the Board. He has served on numerous boards and also played key roles in government, serving as Deputy Minister of Health (1987-1991) and as Secretary of the Premier’s Council on Health Strategy. Dr. Barkin also showed excellence in his own research efforts as a trainee and faculty member of the Department of Surgery. Dr. Barkin has already assembled a new slate of members to the Surgical Alumni Association’s Advisory Group with representation from each of our surgical specialties, and I look forward to many successful years ahead.

The Surgical Alumni Association is grateful to all of our supporters. Because of the strength of support from our outstanding alumni, as well as current and past Faculty, we continue to thrive and strive in our vision of international leadership in health research, education and surgical practice. One of the jewels in our crown is the Surgeon Scientist Program, and I am confident that it will continue to thrive under Dr. Barkin’s leadership of the Surgical Alumni Association.
Introduction
This academic year has witnessed new recruitment efforts at all sites. At St. Michael’s Hospital, Dr. Claudio Cina succeeded Dr. Michael Ameli as the Division Head. Dr. Ameli had been the Division Head since the closure of the Wellesley Hospital and the movement of the Division to St. Michael’s Hospital. Dr. Cina joined the Division at the rank of full professor. His academic promotion coincided with his recruitment. Dr. Andrew Dueck returned from an advanced endovascular and interventional fellowship at the Arizona Heart Institute to join the Division of Cardiac and Vascular Surgery at Sunnybrook Health Science Center as an Assistant Professor. The shift to endovascular therapy for all types of aneurysm repair continues to evolve. Advanced endovascular grafts are being introduced at both University Health Network and St. Michael’s this year. Branched iliac grafts, fenestrated aortic grafts and branched endovascular cases have already take place. The combined Division of Cardiac and Vascular Surgery at Sunnybrook are also performing endovascular repairs and continue to seek Ministry of Health funding for this activity.

Administration
Dr. Johnston completed a highly successful term as the President of the Society for Vascular Surgery at the June 2008 meeting in San Diego. He is the first Canadian surgeon to hold this post. Dr. Johnston also continues as R. Fraser Elliott Chair in Vascular Surgery and is the co-editor of the new edition of Rutherford’s Vascular Surgery. Dr. Daryl Kucey became President of the Canadian Society for Vascular Surgery at the October 2007 meeting in Montreal, Quebec. Dr. Lindsay continues being a member of the Vascular Surgery Examination Board at the Royal College of Physicians and Surgeons. Dr. Rubin continues as the Chairman and CEO for the Mount Sinai Hospital/University Health Network Academic Medical Organization and the University Health Network Mount Sinai Hospital Health Practitioners Funding Group. In addition, he was elected Chair of the Academic Health Science Centre Alternative Funding Plan (AHSC AFP) Governance Organizations and the AHSC AFP Governance Chairs representative on the Academic Medicine Steering Committee which reports to the Physician Services Committee. Dr. Rubin continues as Head of the Division of Vascular Surgery at University Health Network. Dr. Tanner continues as the Head of the Section of Vascular Surgery and the co-Chair of the Hospital On Call Coverage program at the Ontario Medical Association and as a member of the Physician Services Committee. Dr. Andrew Dueck was chosen to be the Vascular Surgery representative on the tariff committee at the Ontario Medical Association. Dr. Rubin continues as a member of the Research and Education committee of the Society for Vascular Surgery, and is a founding member of the Audit Committee. Dr. Lindsay completed his term on the Editorial Board of the Journal of Vascular Surgery and remains a member of the Editorial Board of the Annals of Vascular Surgery.

Graduates
Dr. Giuseppe Papia completed his fellowship training in Vascular Surgery and Critical Care and is pursuing additional training at the Arizona Heart Institute prior to returning to the University of Toronto. Dr. Daragh Moneley completed his fellowship training and returned to Ireland to begin practice. Dr. Nahar Al Nezi completed his fellowship training and is returning to Saudi Arabia to begin practice. Dr. Christiane Werneck also completed her fellowship and will be pursuing further academic training prior to initiating practice.

Education
The Division’s Residency Training committee has consolidated both residency and fellowship training applications at all training sites for Vascular Surgery in Toronto. A formal incorporation of certification of vascular trainees in vascular lab investigations has occurred. Dr. Werneck passed the registered vascular technologist (RVT) examination and Dr. Al Nezi passed the vascular interpretation course. Training in interventional techniques continues with Dr. Ron Colapinto at the Toronto Vascular Institute. Dr. Vern Campbell and Dr. Lindsay both continue as the resident and fellow training coordinators at St. Michael’s Hospital and the University Health Network. Dr. Oreopoulos continues as the coordinator of the Vascular Surgical resident seminar series.

Research
Dr. Rubin has maintained two major grants from the Canadian Health Institutes of Research and the Heart and Stroke Foundation. Dr. Lindsay’s The Physicians’ Services Incorporated Foundation (PSI) grant to study complement activation in ruptured abdominal aortic aneurysm in both humans and animals continues. Dr. Wooster received the John L. Provan Award from the Canadian Society for Vascular Surgery for a Canadian Vascular Education Resource Inventory. In addition, he received a University of Toronto Continuing Education Research Grant in regards to AAA screening guideline implementation. Dr. Johnston continues to collaborate with Professor Richard Cobbold (Biomedical Engineering) in Doppler ultrasound and in hemodynamics studies which continues as his major research endeavor. Drs. Lossing and David Courtman are continuing their Heart and Stroke funded research examining the AAA matrix and its function.
Awards
Dr. Vern Campbell won the Donald J. Currie Undergraduate Teaching Award at St. Michael’s Hospital for 2007-08. Dr. Lindsay was recognized for his undergraduate teaching by winning a Wightman Berris Academy Undergraduate Teaching Award. Dr. Wooster was awarded both the Donald Fear Fellowship in Continuing Education and the Colin Wolfe Award for long-term contributions to continuing education. Dr. William Johnston presented at the Department of Surgery’s Gallie Day Resident research competition and tied for second prize. His talk was titled “Complement Mediated Organ Dysfunction after Ruptured Abdominal Aortic Aneurysm: Evidence from Mice and Humans.” His Master’s thesis supervisor is Dr. Lindsay.

External Visits and Visitors
Dr. Lindsay was an invited speaker at the Second Scientific Meeting of the Saudi Society for Vascular Surgery in conjunction with the 7th International Symposium on Vascular Surgery Update in Riyadh, Saudi Arabia in January 2008. He presented on Advanced Endovascular Aneurysm Repair and Training Standards for Vascular Fellowship training. Drs. Lindsay and Kucey presented at the Winnipeg Vascular Surgery course in April, 2008. Dr. Wooster presented on the applications of Duplex ultrasound at the VITO meeting in Toronto in April 2008 and was an invited guest at the University of Rochester Vascular Course in May 2008.
University of Toronto Surgical Oncologists continue to contribute to the academic mandate of the Department of Surgery at the University of Toronto as well as play major roles in helping shape the future of cancer care in Ontario through extensive involvement with Cancer Care Ontario (CCO) programs. A few highlights of the past academic year are outlined below and are reflective of the breadth of activity in cancer surgery in our Department.

Educational efforts continue to thrive at all levels. Dr. Peter Ferguson won the Bruce Tovee Undergraduate Teaching Award. In addition, Peter founded and became the inaugural president of the Canadian Orthopaedic Oncology Society. Fellowship programs continue to thrive and surgical oncologists at all sites continue to be involved in continuing education efforts through the U of T Update in Surgical Oncology and other speciality courses. Drs. Calvin Law, David Urbach and others teach graduate studies in the Faculties of Medicine and HPME. Their efforts in the classroom and as supervisors comprise part of the enterprise focused on training a series of Surgeon Scientists pursuing research in Surgical Oncology.

Dr. Robin McLeod has been extraordinarily active in her leadership role in the Surgical Oncology Program at CCO. Her expertise in evidence-based medicine and implementation has spearheaded ongoing successes for cancer care improvement in Ontario. Several Cancer Care Ontario guidelines bear the imprint of leadership of U of T Surgical Oncologists. Guidelines on prostate cancer, thoracic surgery, colorectal cancer and multidisciplinary case conferences, together with the knowledge translation efforts linked to them, are reflective of a sustained effort to implement evidence-based, best oncological practice widely. Dr. Robert Zeldin has led the development of a Thoracic Surgery centre of excellence at Toronto East General Hospital. TEGH has been designated as a Level 1 Thoracic Centre and the group is also part of the Division of Thoracic Surgery at U of T. Hepatobiliary centres of excellence at UHN and Sunnybrook care for an increasingly complex subset of oncological patients.

In the research domain, U of T Surgical Oncologists contribute substantially and lead nationally. Dr. Laurie Klotz became the Chairman of the World Uro-Oncology Federation and also the President of the Canadian Urological Association. Dr. Robert Nam won the RCPSC Gold Medal for his research on molecular markers which predict the recurrence of prostate cancer. Several investigators continue to amass substantial peer-reviewed awards. Dr. Natalie Coburn has received $550,000 in NCIC funding to examine optimization of care for gastric cancer patients. Natalie also garnered a career scientist award from the Ministry of Health & Long-Term Care to spearhead improvement of surgical gastric cancer care. Dr. Nancy Baxter received a CIHR operating grant to evaluate outcomes of young adults who develop cancer. Dr. Michael Jewett was awarded a CIHR Chair in Kidney Cancer research.

Finally, human and robotic resource has expanded in U of T Surgical oncology. Dr. Ralph George, a national leader in breast cancer surgery, was recruited to SMH. Dr. Darlene Fenech joined the Colorectal Cancer team at Sunnybrook and Dr. Rebecca Gladdy has joined the ranks of surgical oncologists at Mount Sinai Hospital and will bolster the excellence in sarcoma care in that group. Finally, St. Michael’s Hospital and UHN have acquired a robotic surgical system for use in oncological surgery.
Continuing professional development [CPD] continues to be a major focus within the department. Most members participate actively in educational programs of all descriptions.

During the period 2007 - 2008, members of the Department of Surgery of the University of Toronto produced the following educational related activities:

Educational related publications: 33
Grants received for educational activities: 30
Honors received by members of department related to their educational activities: 7

The Department of Surgery at SickKids has six divisions: Cardiovascular Surgery, General Surgery, Orthopaedic Surgery, Neurosurgery, Plastic Surgery and Urology. These divisions are engaged in teaching at all levels, basic and clinical research, and the care of children with complex conditions from Ontario, Canada and worldwide.

The Department of Surgery has had a highly successful year. First, SickKids continues to lead the Canadian Paediatric Surgical Wait Time Project. Health Minister Tony Clement announced in June of 2008 $9.8M funding for Stage II of the Project to measure wait times for children’s surgery in all clinical areas at the 16 paediatric academic Health Sciences Centres across Canada, to expand data collection to community partners, to perform capacity analysis, to develop surgical indications and to share learning on efficiency initiatives.

Second, Premier Dalton McGuinty and Minister of Health and Long-Term Care George Smitherman came to SickKids in 2007 to announce the addition of children’s surgery to the Provincial Wait Time Strategy with approximately $10M in 2008-2009 to perform additional paediatric surgeries across Ontario.

Third, SickKids successfully completed an Alternate Funding Plan renegotiation including funding for a taskforce to develop appropriate acuity measures for complex paediatric care.

New Staff
No new staff came to SickKids in 2007.

Departures
Dr. Tony Khoury, Head, Division of Urology, after a distinguished career at SickKids left to develop a new unit of Paediatric Urology at University of California, Irvine.

Appointments and Promotions
Dr. Darius Bagli was appointed Associate Chief (Clinical) in the Department of Surgery from April 1, 2008 - April 2011.
Dr. Annie Fecteau became Chair of the Ethics Committee at the American Pediatric Surgical Association.
Dr. Ted Gerstle was appointed President of the Medical Staff Association at SickKids on January 25, 2008.
Dr. Abhaya Kulkarni was promoted to Associate Professor, and Scientist in the SickKids Research Institute.
Dr. Joao L. Pippi Salle was appointed Head, Division of Urology at SickKids in April 2008 and Chair of the 3rd International Congress of the International Society of Hypospadias and Intersex Disorders in 2008.
Dr. Michael Taylor was promoted to Scientist in the SickKids Research Institute.

Division of Cardiac Surgery
The Division was a major contributor to the Adult Congenital Heart Symposium that is held in Toronto every three years. Drs. Caldarone and Van Arsdell each lead a multi-disciplinary team to two different cities in China for operative, anesthesia, ICU, and nursing education. A team from Chengdu, China (one of the Chinese sites) spent four weeks observing and interacting at SickKids. Dr. Caldarone published an innovative method for arch repair in hypoplastic left heart stage II hybrid surgery. Dr. Caldarone was appointed to the editorial board of the Journal of Thoracic and Cardiovascular Surgery. Dr. Van Arsdell was appointed to the editorial board of The Annals of Thoracic Surgery. Each of the three senior Division members continues to hold Heart and Stroke grants. Dr. Coles holds a Canadian Institutes of Health Research (CIHR) grant. Members of the Division published 24 papers.
**Division of Neurosurgery**

Dr. Michael Taylor is the recipient of a three-year Sontag Foundation Distinguished Scholar Award. Dr. James Rutka has been appointed as a Honourary Member of The Japan Neurosurgical Society. Dr. Peter Dirks received a National Cancer Institute of Canada (NCIC) Award of Excellence in Cancer Research, The Terry Fox Young Investigator Award. Dr. Drake was re-appointed to a second five-year term after a very favorable review by Dr. Jean Pierre Farmer, Surgeon-in-Chief, Montreal Children’s Hospital. Members of the Division published 62 papers and presented a total of 33 invited lectures.

**Division of Urology**

Dr. Joao L. Pippi Salle successfully completed a two-year educational scholarship program (ESP) with the University of Toronto’s Continuing Professional Development Program in June 2008. Dr. Darius Bagli successfully completed the Office of Teaching Advancement “The Fundamentals of University Teaching” course in April 2008. Dr. Armando Lorenzo won the Family Advisory Humanitarian award in May 2008. Dr. Walid Farhat was awarded the A.W. Bruce Faculty Undergraduate Teaching Award 2008 from the University of Toronto. Members of the Division published 18 papers and presented a total of 42 invited lectures worldwide.

**Division of General Surgery**

Dr. Jack Langer received a Schwartz-Reisman traveling fellowship. Dr. Georges Azzie established a tele-mentoring program in collaboration with the University of Botswana. Dr. Peter Kim received renewed funding from CIHR, as well as preliminary funding for the Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI). Members of the Division published 31 papers and delivered 25 invited lectures worldwide.

**Division of Orthopaedic Surgery**

The Division of Orthopaedic Surgery celebrated with former patients and their families on November 15, 2007 - its 50th anniversary of being established as a separate division in 1957. The Bone Health Centre was approved in 2008 by the hospital executive. The Centre will be led by Dr. Ben Alman of Orthopaedic Surgery and Dr. Etienne Sochett of Endocrinology. The University of Toronto named Dr. Robert Salter “Giant of Biomedical Science,” adding him among those who already hold the title. Dr. Salter is immortalized with a life-size, bronze bust in the foyer of the Terrence Donnelly Centre for Cellular and Biomolecular Research. Dr. Robert Salter received an Honorary Prime Mentor Award from the Prime Mentors of Canada. Members of the Division published 21 papers.

**Division of Plastic Surgery**

The Division of Plastic Surgery was saddened to hear of the passing of Dr. W.K. Lindsay in February 2008. Dr. Lindsay was the Division Chief from 1958 to 1986 and worked at SickKids for 47 years. Educational activities during the past year included the 5th Annual Lindsay-Thomson Symposium in Pediatric and the second annual Pediatric/Adult Advanced Craniofacial Surgery Symposium. Drs. Zuker and Fisher participated in Operation Smile missions to India and Southeast Asia. Dr. Ronald M. Zuker was the co-editor of the second edition of Principles & Practice of Pediatric Plastic Surgery that was published in early 2008. The Division of Plastic Surgery, under the leadership of Dr. Christopher Forrest, underwent a highly successful five-year review by Dr. Bruce Bauer from Children’s Memorial Hospital in Chicago. During the past academic year, Divisional members published 27 peer-reviewed papers and participated in 28 invited lectures.

**Education**

The hospital continues to have an active education program training 139 fellows and residents originating from 31 countries worldwide.

**Research**

Of 31 surgeons, 21 have funded research programs. The Department is engaged in a wide variety of clinical and basic research supervising many fellows and graduate students.
DIVISION OF CARDIAC SURGERY

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

Publications


Invited Visits

Caldarone C: 18th International Symposium on Adult Congenital Heart Disease, Toronto, ON, June 2008. (1) Congenital coronary anomalies, (2) Meet the expert session on evolving interventions: Hybrid procedures – are two heads better than one?


Caldarone C: Sibley Heart Center, Atlanta Children’s Hospital, Atlanta, Georgia, November 2007. Single ventricle palliation with a hybrid management strategy: Revising the paradigm.


Caldarone C: Congenital Heart Surgeon’s Society, Warsaw, Poland, September 2007. Timing of intervention for second stage procedures in single ventricle palliation.


Wittnich C: Canadian Veterinary Medicine Association (CVMA), Summit, Ottawa, ON, July 2007. A national Canadian animal disaster plan.

Research and Investigations

A transatlantic network to define the mechanisms, mediators and clinical applications of remote ischemic preconditioning. Redington AR, Caldarone CA: Leducq Foundation. ($6,523,095 2006 - 2011.)


Assessment of heavy metal toxins in Canadian marine mammals. Wittnich C: Oceanographic Environmental Research Society (OERS) Seed Grant. ($15,000 2005 - 2008.)

Device implantation for catheter laboratory completion of the Fontan operation. Caldarone C: Labatt Family Heart Centre Innovation Fund. ($10,000 2008.)

Gender and sex hormones in the heart. Wittnich C: Heart and Stroke Foundation of Ontario. ($270,000 2004 - 2008.)

Impact of gender on myocardial pathology and ischemia/reperfusion (renewal). Wittnich C: Heart and Stroke Foundation of Ontario. ($249,000 2004 - 2008.)

Kids with coarctation. Caldarone C: Labatt Family Heart Centre Innovation Fund. ($30,600 2008.)
Late functional status and health-related quality of life in a cohort of survivors with pulmonary atresia intact ventricular septum from the Congenital Heart Surgeons Society Study. McCrindle BW, Caldarone CA: The Children’s Heart Foundation. ($86,308 2007 - 2009.)

Oxygen stress in the newborn heart. Wittnich C: Heart and Stroke Foundation of Ontario. ($320,000 2002 - 2007.)

Role of integrin-linked kinase (ILK) in tetralogy of fallot. Coles JG: Canadian Institutes of Health Research. ($400,700 2008 - 2012.)


The role of sex hormones in myocardial hypertrophy. Wittnich C: Heart and Stroke Foundation of Ontario. ($270,000 2004 - 2008.)

Honours Received


Caldarone C: Honorary Professorship, Xingxiang University Hospital, Henan Province, China. April 2008.

DIVISION OF GENERAL SURGERY

Dr. G. Azzie – Assistant Professor
Dr. P.L. Chiu – Assistant Professor
Dr. S.H. Ein – Associate Professor
Dr. A.H. Fecteau – Assistant Professor
Dr. J.T. Gerstle – Assistant Professor
Dr. D. Grant – Professor
Dr. P.C.W. Kim – Associate Professor
Dr. J.C. Langer – Professor (Division Head)
Dr. G.L. Lukacs – Associate Professor
Dr. P. Wales – Assistant Professor

Publications


Invited Visits


Chiu PPL: Congenital Diaphragmatic Hernia - Clinical and Laboratory Research Directions, Houston, Texas, October 2007. (1) Long-term morbidity of CDH survivors - The Ontario experience, (2) Outcomes of CDH - is ECMO necessary?


Ein SH: Canadian Association of Paediatric Surgeons, Annual Meeting, St. John’s, NFLD, August 2007. Panel discussion (Moderators: Jones S, Murphy J): 40 years of CAPS - From then to now. (authored by Wiseman N, Ducharme J, Ein SH, Gillis A, and 4 residents.)


Gerstle JT: King Abdulaziz Medical City, Riyadh, Saudi Arabia, December 2007. Organization of pediatric oncology services at the population level.

Gerstle JT: King Abdulaziz Medical City and Oncology Center, Jeddah, Saudi Arabia, December 2007. Organization of pediatric oncology services at the population level.

Gerstle JT: King Abdulaziz University Medical College and University Hospital, Jeddah, Saudi Arabia, December 2007. MIS and pediatric oncology.


Gerstle JT: King Fahad Medical City, Riyadh, Saudi Arabia, December 2007. MIS and pediatric oncology.


Langer JC: Beijing Children’s Hospital, Pediatric Surgery Rounds, Beijing, China, November 2007. New concepts in the management of Hirschsprung’s disease, minimal access surgery in children.

Langer JC: Second Affiliated Children’s Hospital of Jiaotong University, Pediatric Surgery Rounds, Xi’an, China, November 2007. New concepts in the management of Hirschsprung’s disease, minimal access surgery in children.


Langer JC: Trauma and Burn Care Symposium, Melaka, Malaysia, November 2007. (1) Conservative management of blunt abdominal trauma in children, (2) Trauma prevention in children.


Kim PCW: King Abdullah Medical Centre, Riyadh, Kingdom of Saudi Arabia, May 2008. The current state of tracheal reconstruction.


Research and Investigations
Senior Investigator’s Name Appears in Italics


Centre for computer-assisted intervention and innovation. Kim PCW: Ministry of Research and Innovation. ($3,395,000 2008 - 2012.)


Establishment of centre for image-guided innovation and therapeutic intervention (CIGITI). Kim P: Canadian Foundation for Innovation. ($25,000,000 2006 - 2010.)

Functional outcomes after pediatric liver transplantation. Ng VL, Fecteau AH: 1 R01 HD045694-01A1, National Institutes of Health (NIH). ($125,000 2005 - 2010.)


Impact of early enteral feeding on splanchnic blood flow after surgery for critical heart disease in the newborn. Sivarajan VB, MacDonald CE, La Rotta GE, Caldaron CA, Herridge J, Schwartz SM, Wales PW: Labbatt Family Heart Centre Innovation Fund. ($34,000 2008.)


Pediatric Acute Liver Failure (PALF) registry with accompanying NAC study (A double-blinded randomized control trial of N-acetylcysteine for pediatric acute liver failure not due to acetaminophen). Ng VL, Fecteau AH: National Institutes of Health (NIH) U01 KD 072146-01. ($54,000 2005 - 2010.)


Short bowel syndrome: Neonatal piglet models. Turner J, Wales PW, Pencharz PB, Ball R: New Investigator Grants Program, the Hospital for Sick Children Foundation (HSCF), the Canadian Institutes of Health Research, the Institute of Human Development, Child and Youth Health (CIHR/IHDCYH). ($125,379 2008 - 2010.)

The effect of intestinal continuity on circulating levels of glucagon-like peptide - 2 (GLP-2) in children. Wales PW, Drucker DJ: Dean’s Fund, Faculty of Medicine, University of Toronto. ($9,983 2004 - 2009.)

The Fetal Alert Network: Establishment of a population-based antenatal database for pregnancies affected by anomalies. Kim P: Ministry of Health and Long Term Care, Ontario. ($1,100,000 2006 - 2007.)

Honours Received


DIVISION OF NEUROSURGERY

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

Publications


Invited Visits


Dirks PB: Dana Farber Cancer Institute Distinguished Seminars in Oncology Series, Boston, Massachusetts, May 2008. Brain tumor stem cells: Bringing order to the chaos of brain cancer.


Dirks PB: Brigham and Women’s Hospital, Harvard Medical School, The 2007 International Conference on Glioma Research and Therapy, Boston, Massachusetts, October 2007. The origins of gliomas.


Dirks PB: American Association of Neurological Surgeons-Congress of Neurological Surgeons (ANS-CNS), Section on Tumors: Biological Diagnostics and Therapies for the 21st Century, San Diego, California, September 2007. Stem cells.


Dirks PB: Miller School of Medicine, University of Miami, Miami, Florida, July 2007. Brain tumor stem cells: Looking towards defining molecular and cellular targets.


Taylor MD: European Society for Pediatric Neurosurgery, Montreux, Switzerland, May 2008. What has molecular biology taught neurosurgeons about medulloblastoma?


Taylor MD: Alberta Children’s Hospital, Calgary, AB, March 2008. Has molecular biology impacted the therapy of pediatric medulloblastoma?


Taylor MD: Pediatric Brain Tumor Foundation Annual Retreat, San Diego, California, March 2008. Murine metastatic medulloblastoma driven the sleeping beauty transposon identifies genes and pathways important for tumor initiation, maintenance, and progression.


Taylor MD: University of California at San Francisco, Department of Neurosurgery, San Francisco, California, January 2008. Multiple recurrent genetic events target histone lysine methylation in pediatric medulloblastoma.


Taylor MD: International Symposium on Pediatric Neuro-Oncology, Taipei, Taiwan, October 2007. (1) Radial glial cells are a candidate cell of origin for ependymoma, (2) Recurrent genetic events in human medulloblastoma converge on histone lysine methylation, neuronal differentiation, and cell adhesion molecules, a high resolution SNP array study of 212 medulloblastomas, (3) Use of transposon mediated mutagenesis to create a novel transgenic mouse model of metastatic medulloblastoma that identifies key genes and pathways important in the initiation, maintenance, and progression of medulloblastoma.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A symmetrical self renewal in normal and cancer stem cells of the human brain. Dirks P: Canadian Institutes of Health Research. ($588,180 2008 - 2013.)


Characterization of amplified oncogenes in pediatric ependymoma. *Taylor M: Canadian Institutes of Health Research.* ($467,000 2006 - 2010.)


Functional genomic dissection of the initiation and progression of medulloblastoma. *Taylor MD: Canadian Institutes of Health Research, Institute of Human Development, Child and Youth Health, and The Sick Kids Foundation.* ($130,000 2005 - 2007.)


Molecular predictors of outcome in infant medulloblastoma. *Taylor MD: American Brain Tumor Association.* ($50,000 2007 - 2008.)

Multiple genetic events converge to target histone 3 lysine 9 methylation in pediatric medulloblastoma. *Taylor MD: Sontag Foundation.* ($500,000 2007 - 2010.)

Mutation of neuronal differentiation genes in medulloblastoma. *Taylor MD: National Cancer Institute of Canada.* ($600,442 2007 - 2012.)


Social outcomes in pediatric traumatic brain injury. *Dennis M (Toronto Site), Yeates K (Ohio Site), Taylor HG: National Institutes of Health.* ($1,000,000 2005 - 2010.)

Spina bifida: Cognitive and neurobiological variability (competing continuation.) *Dennis M (Toronto Site), Fletcher JM (Houston Site): National Institutes of Health.* ($1,600,000 2005 - 2010.)

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

The effect of hospital admissions on children with hydrocephalus. *Kulkarni AV: RR Graham Scholarship, Department of Surgery, University of Toronto.* ($75,000 2007 - 2010.)
The influence of postoperative systemic oxygen transport on neurologic outcomes in infants undergoing the Norwood procedure with a modified Blalock-Taussig shunt or a right ventricle-to-pulmonary artery shunt. Van Arsdell G, Li J, Dennis M: Heart and Stroke Foundation. ($236,000 2007 - 2011.)

The role of cytoskeletal GTPases in astrocytoma migration. Rutka JT: Canadian Institutes of Health Research. ($500,000 2004 - 2009.)

Understanding the brain tumorigenic process: Focus on cancer stem cells. Dirks P: National Cancer Institute of Canada. ($564,000 2007 - 2011.)

Honours Received


Dirks PB: Terry Fox Young Investigator Award, National Cancer Institute of Canada. February 2008.


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 – University Professor
Dr. J.H. Wedge – Professor
Dr. J.G. Wright – Professor
Dr. R. Zeller – Associate Professor

Publications


Yan T, Angelini M, Alman BA, Andrulis IL, Wunder JS: Patched-one or smoothed gene mutations are infrequent in chondrosarcoma. Clinical Orthopaedics and Related Research: June 2008.

Invited Visits

Alman BA: Canadian Orthopaedic Association and American Orthopaedic Association, Joint Annual Meetings, Quebec City, PQ, June 2008. Obesity in paediatric orthopaedic patients.


Alman BA: Los Angeles Children’s Hospital, Grand Rounds, Los Angeles, California, April 2008. Is newer really better? A role for traction and the unit rod in scoliosis.

Alman BA: Los Angeles Orthopaedic Hospital, Los Angeles, California, April 2008. (1) Cutting out the roots: New treatments for sarcomas based on cancer stem cells. (2) Duchenne muscular dystrophy: Basic science makes a difference in orthopaedics. (3) Keeping track of syndromes. A classification based on genetic etiology.

Alman BA: University of California Los Angeles (UCLA), Neuroscience and Cancer Program, Los Angeles, California, April 2008. Seeding sarcomas: Tumor initiating cells in mesenchymal tumors.


Alman BA: University of Calgary, Townsend Lectureship, Calgary, AB, October 2007. (1) A classification of genetic disorders of interest to orthopaedics, (2) Newer is not always better: Traction and the unit rod in scoliosis management, (3) Scoliosis in muscular cystrophy: A case for basic science in orthopaedics.

Alman BA: University of Calgary Research Institute, Calgary, AB, October 2007. From fibroblasts to fracture healing: Beta-catenin in mesenchymal cells.

Alman BA: University of Ottawa, Research Institute, Ottawa, ON, October 2007. From tumors to development: Lessons learned about hedgehog signalling from sarcomas.


Howard A: Apollo Hospital, Ahmedabad, India, December 2007. (1) Paediatric femoral fractures, (2) Congenital scoliosis.


Howard A: Hospital for Children and Adolescents, University of Helsinki, Helsinki, Finland, November 2007. (1) Preventing fractures in childhood sports and leisure, (2) Upper extremity fracture management.


Narayanan UG: University of Tel Aviv, Grand Rounds, Department of Orthopaedic, Tel Aviv, Israel, February 2008. Visiting Professor/Lecturer: (1) Evidence-based medicine: A prescription for orthopaedic surgeons, (2) Injuries of the growth plate.


Wedge JH: Royal Victoria Hospital, Surgical Rounds, Barrie, ON, June 2008. Orthopaedics for the paediatricians: The bare essentials.


Zeller R: European Paediatric Orthopaedic Society, Sorrento, Italy, April 2008. How to manage complex spinal deformities without vertebral resections.


Research and Investigations

Senior Investigator's Name Appears in Italics


Barriers to use of pediatric ankle x-ray rules. Boutis K, Narayanan U: Department of Pediatrics Creative Professional Grant. ($7,000 2007 - 2008.)

Basil O’Connor starter scholar research award grant. Hopyan S: March of Dimes. ($150,000 2008 - 2010.)


Booster seat legislation in Canada: Assessing the spinal cord injury reduction. Howard A: Ontario Neurotrauma Foundation. ($7,000 2008.)


Clinical research training fellowship. Bederman S, Wright JG: Orthopaedic Research and Educational Foundation/American Association of Orthopaedic Surgeons (OREF/AAOS) Fellowship Award. ($140,000 2006 - 2008.)


Connaught new staff matching grant. Hopyan S: University of Toronto. ($30,000 2007 - 2008.)

Dean’s fund new staff grant. Hopyan S: Faculty of Medicine, University of Toronto. ($10,000 2007 - 2012.)


Hedgehog signaling in cartilage neoplasia and development. Wunder JS, Alman BA: *Canadian Institutes for Health Research.* ($807,945 2008 - 2013.)


Identifying the desmoid initiating cell. Alman BA: *Desmoid Tumor Research Foundation.* ($270,000 2006 - 2009.)


Modulating hedgehog and beta-catenin signalling in osteoarthritis. Alman BA: *Canadian Institutes of Health Research.* ($380,000 2006 - 2009.)

Molecular mechanisms in fracture and wound healing. Alman BA: *Canadian Institutes of Health Research.* ($931,675 2008 - 2013.)

Molecular pathology of cartilage neoplasia. Wunder JS, Alman BA: *Canadian Institutes of Health Research.* ($560,000 2003 - 2008.)

Molecular pathology of Ehlers-Danlos syndrome and chondrodysplasias. Cole WG: *Canadian Institutes of Health Research.* ($735,341 2005 - 2009.)

Molecular pathology of healing. Alman BA: *Canadian Institutes of Health Research.* ($423,975 2005 - 2008.)


Safety and efficacy of botox injection in alleviating post-operative pain and improving quality of life in lower extremity limb lengthening and deformity correction: A multicenter, randomized, double-blinded, placebo-controlled study. Hamdi R (PI), Narayanan UG (Toronto Site PI), Multiple Collaborators: *Clinical Outcomes Studies Advisory Board (COSAB) of Shriners Children's Hospitals.* ($220,000 2007 - 2010.)

School playground surfacing: A randomized prospective comparison of injury rates on sand versus wood chip surfaces. Howard AW: *Canadian Institutes of Health Research.* ($250,000 2004 - 2009.)

Start-up fund. Hopyan S: *The Hospital for Sick Children, Research Institute.* ($80,000 2005 - 2008.)

Surgery in Africa and ptolemy project capacity building seed grant. Howard A, Ostrow B: *Johnson and Johnson.* ($20,000 2007 - 2008.)


Honours Received

**Narayanan UG:** 2008 Robert Salter Orthopaedic Chair Resident Teaching Award. April 2008.


**Salter RB:** Honorary Prime Mentor of Canada. 2008.

**Salter RB:** Named one of University of Toronto, Faculty of Medicine’s 10 Most Outstanding Scientists of the Past 80 years, known as “Giants of Medical Research,” with their busts displayed in the lobby of the Terrence Donnelly Centre of Cellular and Biomolecular Research and one floor of the centre named for each of the Giants. 2008.
DIVISION OF PLASTIC SURGERY

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

Publications


Invited Visits


**Fisher DM**: Operation Smile, Phnom Penh, Cambodia, November 2007. Member of a team of volunteer plastic surgeons.

**Fisher DM**: American Society of Plastic Surgeons, Baltimore, Maryland, October 2007. (1) Instructional course - Introduction to two-stage total and subtotal auricular reconstruction: The fabrication of the three-dimensional costal cartilage framework (3-D frame), (2) Instructional course - Cleft nasal deformity.


**Forrest CR**: Children’s Hospital of Michigan, Wayne State University, Detroit, Michigan, October 2007. Visiting Professor: (1) Pediatric facial fractures, (2) Current concepts in the management of sagittal synostosis, (3) Coples pediatric case presentations.


**Zuker RM**: The Hunley Society Annual Meeting, Martha’s Vineyard, MA, June 2008. (1) Bilateral index finger replantation: Indications and function, (2) Moebius Syndrome - spontaneity of function following muscle transplantation, (3) Necrotizing syndrome, (4) Severe dog bite to the upper lip - options for late reconstruction.


**Zuker RM**: Mini Symposium in Pediatric Plastic Surgery, Hughes Medical Centre, Anguilla, British West Indies, December 2007. (1) Neuromuscular integration following lower extremity transplantation, (2) Recent advances in unilateral facial paralysis reconstruction, (3) The role of Doppler ultrasound in the management of expanding hemangioma.


**Zuker RM**: American Society of Plastic Surgeons Annual Meeting, Baltimore, Maryland, October 2007. Panel Speaker: (1) Aesthetic microsurgical reconstruction - balance between form and function, (2) The complete head and neck micro course.

**Zuker RM**: Liquor Control Board of Ontario (LCBO), Bayview - Fundraising Group, Toronto, ON, October 2007. Cortical plasticity in muscle transplant surgery.
Research and Investigations


Cooper Foundation. Zuker R: Cooper Foundation. ($100,000 2008 - 2009.)

Educational exchange with Cleft Centre, Kolkata, India. Zuker R, Cleft Centre in Kolkata, India: Donner Foundation. ($230,000 2007 - 2008.)


The creation of a normal smile. Zuker RM, Manktelow RT: Josie Walther Fund. ($15,000 2006 - 2009.)

Honours Received


DIVISION OF UROLOGY

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

Publications


Invited Visits

Bagli DJ: American Academy of Pediatrics, Section on Urology, San Francisco, California, October 2007. Panel moderator: Preventing urinary infection in children: It’s 11 pm, do you know what your antibiotics are doing?


Farhat WA: 5th Tissue Engineering Symposium, Tampere, Finland, April 2008. (1) Cell models, (2) Clinician’s approach to tissue engineering and regenerative medicine.


Lorenzo AJ: Federation of Pediatric Surgical Associations of the South Cone of America, VII Congress, Buenos Aires, Argentina, September 2007. (1) Comparative analysis of ventral penile lengthening versus dorsal plication for severe ventral curvature: Single center experience with 100 cases, (2) Multivariable analysis of risk factors for recurrent ureteropelvic junction obstruction on 401 consecutive children.


Pippi Salle JL: II World Congress on Hypospadias and Disorders of Sex Development, Rome, Italy, November 2007. (1) Guest Speaker, (2) Guest Surgeon: Performed surgeries and live demonstrations: (a) Redo epispadias repair, (b) Redo hypospadias repair, (c) Correction of buried penis, (d) Separation of urogenital sinus, (e) Repair of urethral duplication (with live transmission to auditorium), (3) Lectures: (a) Gender assignment, (b) Should surgery be performed on the clitoris, (c) Chordee correction: Technical alternatives, (d) Management of distal hypospadias.


Pippi Salle JL: Society of Colombian Urology, 1st International Congress, Cartagena, Colombia, August 2007. (1) Session Moderator: Feminizing genitoplasty, (2) Points and counterpoints: (a) Adolescent varicocele: Where does it require correction?, (b) Correction of primary proximal hypospadias, (c) Ventral curvature of penis, when it should be fixed, (3) Co-ordinator round table discussion: Pediatric urology for adult urologists.

Research and Investigations

Senior Investigator’s Name Appears in Italics

Biologically enhanced fascia lata graft for soft tissue repair. Farhat W, Derwin K: (Biomedical Research and Technology Transfer Program - part of Ohio’s Third Frontier Initiative), Cleveland Clinic Foundation. ($225,000 2005 - 2008.)


Epigenetic changes in uroepitelium following e-coli infection: New keys to understanding urinary tract infection susceptibility. Bagli DJ: Research Institute, Hospital for Sick Children. ($50,000 2007 - 2008.)


Quantitative MRI of angiogenesis and cellularization in tissue engineering. Cheng HL, Farhat WA, Stanisz GJ: University of Toronto Dean’s Fund. ($9,957 2007 - 2012.)

Honours Received

**Farhat WA:** A.W. Bruce Faculty Undergraduate Teaching Award. June 2008.

This has been a year of new building initiatives at Mount Sinai Hospital. Construction began on top of the hospital starting with the addition of 6 new floors which will house the Women’s and Infant’s Health Program. This development is particularly exciting for our Surgery Programs because once this new area has been completed, we will begin building a new surgical program within the hospital including new operating rooms and perioperative services. A large expansion of the hospital’s Lunenfeld Research Institute was completed and this new space opened at 60 Murray Street directly across the street from the hospital. In addition the Toronto Center for Phenogenomics (TCP), commonly known as the “Mouse House”, also opened beneath the new Lunenfeld space. The TCP is a new collaborative facility shared by Mount Sinai Hospital and 3 other University of Toronto hospitals which will function as a research-enabling mouse facility. Both of these additions will enable further collaboration between our hospital based clinical programs and translational and basic science research. Following last year’s successful expansion of the Surgical Skills Centre, the Sydney and Florence Cooper Education Centre opened this year. This new space will further support medical education programs across the hospital and will specifically foster development of inter-professional teaching initiatives for our trainees.

A major focus of the department, once again, through the efforts of the Surgery and Oncology Center of Excellence has been increasing surgical volumes and improving wait times for patients as part of the Ontario Wait Times Project and Cancer Care Ontario. These efforts focused on extremity and retroperitoneal sarcoma, colorectal cancer, breast cancer, as well as hip and knee arthroplasty. Once again we made improvements in waiting times for these procedures, and also met our overall treatment target volumes, providing leadership within our Toronto Central LHIN. As part of the provincial Surgical Efficiency Target Program (SET) and the Hip Fracture Initiative, we also made internal changes to improve accessibility for patients requiring emergency surgery, and this was especially targeted towards patients with hip fractures.

**New Staff**

This was a very busy year for recruitment as we welcomed the following 5 new staff to our department:

Ben Deheshi joined the Division of Orthopaedic Surgery as part of the Sarcoma Program at Mount Sinai Hospital and Princess Margaret Hospital. Ben completed his orthopaedic residency at the University of Ottawa and then a fellowship with our Sarcoma Group at Mount Sinai Hospital. Ben will be pursing research into the underlying molecular mechanisms causing sarcomas, and he will be a welcome addition to our very successful sarcoma genetics program. Ben is currently enrolled in graduate training at the Institute of Medical Science under the supervision of Drs. Jeff Wrana and Jay Wunder. Ben’s graduate research focus is on TGF-β signaling in metastatic osteosarcoma, and his future goals are to integrate his basic science research experience into clinical practice in an attempt to develop optimal treatment strategies for sarcoma patients.

Oleg Safir joined the Division of Orthopaedic Surgery in the Adult Lower Extremity Reconstruction Group. Oleg completed his orthopaedic residency in Israel and then a clinical and research fellowship with Drs. Allan Gross and David Backstein at Mount Sinai Hospital. Oleg will focus his clinical practice on hip and knee arthroplasty, revision arthroplasty, as well as osteotomies and osteochondral transplantation around the knee as these areas are particular strengths and areas of excellence at Mount Sinai Hospital. Oleg’s research interest is in surgical education and he is currently pursuing a Masters Degree at the Ontario Institute for Studies in Education (OISE) and a fellowship at the Wilson Centre for Research in Education under the supervision of Dr. Heather Carnaghan. Oleg’s research will focus on methods to improve teaching of surgical skills to our trainees. His main educational research interests are dedicated to study the acquisition of technical surgical skills, curriculum development and evaluation at the undergraduate and postgraduate level as they relate to self-directed learning.

Dr. John Theodoropoulos was recruited to an academic position at the University of Toronto from a community job as an orthopaedic surgeon specializing in sports medicine. John completed his orthopaedic residency at McGill University, followed by a sports medicine fellowship at the University of Illinois, Chicago. John was successfully recruited through a joint strategy by both Mount Sinai Hospital and the New Women’s College Hospital. He is the first recruit to the new downtown university sports program being developed jointly between Mount Sinai Hospital, the New Women’s College Hospital, and the Hospital for Sick Children. John’s first initiatives will be to improve the educational program for the orthopaedic residents and develop a fellowship program. John won a number of teaching awards during his residency leading to his strong interest in resident education. He feels that the future of sports medicine will be in developing better biologic based repair therapies. John has a specific interest in cartilage damage and will be working as part of a translational research team to develop novel surgical approaches for potential repair of focal cartilage defects in young patients. Towards this end he is currently enrolled in graduate studies through the Institute of Medical Science investigating novel tissue engineering and cartilage regeneration techniques for cartilage repair under the supervision of Dr. Rita Kandel.
Dr. Ethan Grober joined the Division of Urology in the Male Reproductive Medicine Program. Ethan is another combined recruit between the Departments of Surgery at both Mount Sinai Hospital and the New Women’s College Hospital. During his urology residency at the University of Toronto, Ethan obtained a Master’s Degree in Surgical Education from OISE as part of the Surgeon Scientist Program. His fellowship training was in Male Reproductive Medicine and Surgery at Baylor College of Medicine in Houston with Dr. Larry Lipshultz, a world leader in male infertility and sexual medicine. Ethan’s research activities will focus on achievement of excellence in surgical education. His specific interests include the objective assessment of technical competence and operative judgement, integration and evaluation of new technologies in surgery, and the validation of surgical simulation and laboratory-based surgical skills training.

Dr. Stefan Hofer was another combined recruit to the Division of Plastic Surgery at the University Health Network together with the Department of Surgery at Mount Sinai Hospital. Stefan completed his plastic surgery residency in the Netherlands, followed by fellowship training at Erasmus Medical Center, Rotterdam, Netherlands; M.D. Anderson Cancer Center, Houston, Texas; and the University of Melbourne, Melbourne, Australia. Prior to moving to Toronto, Stefan was a Staff Plastic Surgeon in the Department of Plastic and Reconstructive Surgery, Erasmus Medical Center, Rotterdam and Head of Plastic and Reconstructive Surgical Oncology. Stefan’s recruitment will primarily support our surgical oncology programs, with a focus on technical improvements of reconstructive techniques, and functional and aesthetic outcomes after reconstructive surgery. Stefan completed a PhD studying tissue perfusion and his current research is in angiogenesis and tissue engineering.

Research productivity in terms of publications, peer-reviewed funding, and invited lectureships remained at an all time high for our department. Some of the highlights include:

**Division of Orthopaedic Surgery**

David Backstein was promoted to Associate Professor, and continues to make major improvements in the medical school curriculum as Director of Undergraduate Education for the Department of Surgery. David also received grant funding to investigate educational opportunities for technical skills during the surgical clerkship. Oleg Safir, in only his first year on staff, received two peer-reviewed grants in support of his surgical skills educational research program. Peter Ferguson was nominated as the Oncology Subspecialty Chair of the Canadian Orthopaedic Association, Inaugural President of the Canadian Orthopaedic Oncology Society, and was awarded the Bruce Tovey Undergraduate Teaching Award from the Department of Surgery. Jay Wunder received a renewal of his CIHR grant together with Ben Alman investigating Hedgehog Signaling in Cartilage Neoplasia ($800,000).

**Division of Urology**

Ethan Grober received funding from the Canadian Urology Association in support of his studies on acquisition and evaluation of surgical skills. Keith Jarvi received a CUOG research award for the identification of semen biomarkers to detect prostate cancer, and is the Associate Editor of the Canadian Urology Association Journal and the Chronicle of Sexual Medicine. Alex Zlotta was funded by the Prostate Cancer Research Foundation for an international multi-centered prostate cancer study. Alex is the Associate Editor for European Urology and runs the journal’s editorial office in Toronto. He also remains a Professor at the European School of Urology.

**Division of General Surgery**

Following the opening of the Zane Cohen Digestive Disease Research Unit, the first annual Zane Cohen Lecture was presented by Dr. Peter Angelos from the University of Chicago on the topic of “Ethical Considerations in the Adoption of New Technology.” Robin McLeod was chosen as the Surgical Lead, Quality Improvement and Knowledge Transfer, Surgical Oncology Program, Cancer Care Ontario. Robin is also a Regent of the American College of Surgeons, Second Vice-President of the American Surgical Association and Treasurer of the Society for Surgery of the Alimentary Tract. Helen MacRae co-chaired the American College of Surgeons/Association of Program Directors in Surgery Technical Skills Curriculum for General Surgery. Carol Swallow continued as Chair of the RCPSC General Surgery Oncology Specialty Committee and Chair of the Research Committee of the Canadian Association of General Surgeons.

**Retirement**

Michael Goldberg retired after a career spanning 34 years at Mount Sinai Hospital. Michael was a vascular surgeon in the Division of General Surgery, and was well known as one of the best teachers in the Department of Surgery. We all wish him well in his retirement.
DIVISION OF GENERAL SURGERY

Dr. Z. Cohen – Professor
Dr. A.M. Easson – Assistant Professor
Dr. M.R. Goldberg – Associate Professor
Dr. R.N. 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. C.J. Swallow – Associate Professor

Publications


Invited Visits
Cohen Z: American Society of Colon and Rectal Surgeons, Boston, Massachusetts, June 2008. Surgical management of patients with HNPCC (hereditary non-polyposis colorectal cancer.)

Cohen Z: Caribbean College of Surgeons, Nassau, Bahamas, June 2008. Experiences in the surgical skills lab at the University of Toronto.


Cohen Z: University of Sydney (Dr. Michael Solomon), Sydney, Australia, August 2007. Visiting Professor.

Cohen Z: Colorectal Society of Israel (Dr. Alex Deutch), Tel-Aviv, Israel, July 2007. Visiting Professor.
Cohen Z: Sahlgrenska Hospital, University of Sweden (Dr. Svanta Nordgren), Goteborg, Sweden, July 2007. Visiting Professor.

Cohen Z: University of Bologna (Dr. Alberto Poggioli), Bologna, Italy, July 2007. Visiting Professor.

Cohen Z: University of Denmark (Dr. Henrik Kehlet), Copenhagen, Denmark, July 2007. Visiting Professor.


Easson AM: International Grenfell Symposium, St. Anthony, NFLD, October 2007. (1) Benign breast conditions: If it is not cancer then what is it?, (2) Surgical palliation for cancer.

Easson AM: Canadian Association of General Surgeons/University of Toronto/Canadian Society of Surgical Oncology (CAGS/UofT/ CSSO) Symposium, Toronto, ON, September 2007. Applications of new technology in the management of breast disease.

MacRae HM: American Society of Colon and Rectal Surgeons (ASCRS), Annual Meeting, Boston, Massachusetts, June 2008. How will we train the next generation of colorectal surgeons?


MacRae HM: University of Ottawa, Research Day, Ottawa, ON, April 2008. Surgical skills training: What is evidence?

MacRae HM: Canadian University Software Engineering Conference (CUSEC), Montreal, PQ, November 2007. Towards sharing curriculum content: A standardized curriculum template.

MacRae HM: American College of Surgeons, 93rd Annual Clinical Congress, New Orleans, Louisiana, October 2007. Simulation based education in resident training.

MacRae HM: International Society for Quality in Health Care Inc. (ISQua), Boston, Massachussets, October 2007. Use of simulation for education and assessment.

MacRae HM: Canadian Surgery Forum, Toronto, ON, September 2007. Teaching (and learning) operative skills in the 21st century.

MacRae HM: Second International Clinical Skills Conference, Prato, Tuscany, Italy, July 2007. How to assess technical skills, and how to develop and implement an Objective Structured Assessment of Technical Skills (OSATS) exam.


Swallow CJ: University of Saskatchewan, Department of Surgery, Faculty Research Day, Saskatoon, Saskatchewan, November 2007. Visiting Professor: To cut but not to cure - Towards an understanding of predisposition to hepatocellular carcinoma.


Swallow CJ: Canadian Association of General Surgeons, Symposium/Canadian Surgical Forum, Toronto, ON, September 2007. Unexpected findings - Is it a perforated peptic ulcer or a perforated gastric cancer?


Research and Investigations

Senior Investigator’s Name Appears in Italics

Assessment of the relief of symptoms after the drainage of ascites: An evaluation of four questionnaires. Easson AM, Bezjak A, Ross S, Wright J: *Dean’s Fund New Staff Award.* ($10,000 2003 - 2009.)

Associated Medical Services fellow in end of life care. Easson AM: *Associated Medical Services.* ($125,000 2004 - 2009.)

Combined oncolytic virotherapy and targeted radiotherapy for peritoneal carcinomatosis. McCart JA, Reilly RM, Fish EN: *Canadian Institutes of Health Research.* ($325,000 2007 - 2010.)


Discovery of targets for the prevention of invasion and metastasis of colorectal and breast cancers and sarcoma. Swallow CJ, Woodgett J, Andrilis I, Wrana J, Dennis J: *The Syndey C. Cooper Program for the Prevention of Cancer Progression.* ($1,000,000 2008 - 2011.)

Evaluation of vaccinia virus oncolysis in glioblastoma. McCart JA: *Grant Miller Cancer Research Grant, Faculty of Medicine, University of Toronto.* ($19,126 2003 - 2008.)

Immunogen therapy for colorectal cancer. McCart JA, Medin JA: *Colon Cancer Canada.* ($30,000 2007 - 2008.)


Interdisciplinary research on the determinants and impact of colorectal cancer: Molecular genetic factors, risk modifiers and population health. McLaughlin J (Team Grant co-Investigator), Gryfe R [Team Leader – Molecular epidemiological studies of patient outcome and response to treatment – $203,706 for 3 years]: *Canadian Institutes of Health Research.* ($3,627,210 2006 - 2010.)

Plk4 and chromosomal instability. Swallow CN, Dennis JW: *National Cancer Institute of Canada* (declined). ($467,000 2006 - 2009.)

Plk4 and chromosomal instability. Swallow CJ, Dennis JW: *Canadian Institutes of Health Research.* ($447,000 2006 - 2009.)

P53 dependent synthetic lethality in colon cancer. Gryfe R: *Colon Cancer Canada.* ($30,000 2007 – 2008.)


Randomized controlled trial comparing the effectiveness of a web based journal club to a standard journal club format to teach critical appraisal skills. McLeod RS, MacRae H, Brasel K: *The Physicians’ Services Incorporated Foundation.* ($93,000 2008 - 2009.)

The gastrointestinal stromal tumor (GIST) experience at the University of Toronto, 1986-2006: Mutational status and prognosis. Swallow CJ, Bhojani F, Pollett A, Blackstein M: *Novartis Oncology.* ($13,000 2008 - 2010.)

Honours Received


DIVISION OF ORTHOPAEDIC SURGERY

Dr. D. Backstein – Associate Professor
Dr. R.S. Bell – Professor
Dr. B.M. Deheshi – Lecturer
Dr. P.C. Ferguson – Assistant Professor
Dr. A.E. Gross – Professor
Dr. O. Safir – Lecturer
Dr. E.A. Silverstein – Assistant Professor
Dr. J.S. Theodoropoulos – Lecturer
Dr. J.S. Wunder – Professor (Division Head)

Publications


Invited Visits

Backstein D: Niagara Health System Region Orthopaedic Associates Business Meeting, Niagara Falls, ON, April 2008. What is the role of anticoagulants in orthopaedic surgery - Are we doing enough?


Bell RS: Canadian College of Health Service Executives, National Healthcare Leadership Conference, Saskatoon, SK, June 2008. The politics of regionalization.

Bell RS: Peking University, Health Science Center, China-Canada Dialogue on Hospital Management and Social Work, Beijing, China, March 2008. The Canadian healthcare system and University Health Network.


Ferguson PC: Canadian Orthopaedic Association and the American Orthopaedic Association, Combined Meeting, Quebec City, PQ, June 2008. (1) Moderator, (2) Instructional Course Lectures: (a) Common oncologic mishaps: How to avoid them in general practice, (b) The botched biopsy.


Ferguson PC: Stryker Course in Revision Total Knee Arthroplasty, Toronto, ON, October 2007. Megaprostheses in salvage surgery at the knee.


Research and Investigations
Senior Investigator’s Name Appears in Italics


Hedgehog signaling in cartilage neoplasia and development. Wunder JS, Alman BA: Canadian Institutes of Health Research. ($807,945 2008 - 2013.)

Hedgehog signaling in cartilaginous neoplasia: Implications for treatment. Wunder JS, Alman BS: Canadian Institutes of Health Research. ($796,660 2003 - 2008.)


The educational value of pre-training fundamental technical skills in surgical clerkship. Backstein D, Dubrowski A, Kurahshi A: Education Development Fund. ($20,000 2007 - 2008.)

Honours Received
Ferguson PC: Bruce Tovee Undergraduate Teaching Award. May 2008.


DIVISION OF PLASTIC SURGERY
Dr. N.H. McKee – Professor

Publications
DIVISION OF UROLOGY

Dr. E.D. Grober – Assistant Professor
Dr. K.A. Jarvi – Professor (Division Head)
Dr. K.C. Lo – Assistant Professor
Dr. A.R. Zlotta – Professor

Publications


Invited Visits
Grober ED: Solvay Pharma, Primary Care Physicians of the Greater Toronto Area, Toronto, ON, June 2008. Testosterone replacement and prostate safety.

Grober ED: Solvay Pharma, Primary Care Physicians of the Greater Toronto Area, Toronto, ON, February 2008. Testosterone replacement and prostate safety.

Grober ED: Solvay Pharma, Primary Care Physicians of the Greater Toronto Area, Toronto, ON, November 2007. Testosterone replacement and prostate safety.


Zlotta AR: American Urology Association, Orlando, Florida, May 2008. MSH2 mutations and bladder cancer risk: Family members of hereditary nonpolyposis colorectal cancer (HNPCC) patients with MSH2 mutations are at increased risk not only for upper urinary tract transitional cell carcinoma (TCC) but also bladder cancer.

Zlotta AR: Tel-hashomer University Hospital, Tel-Aviv, Israel, April 2008. BCG for high-grade superficial bladder cancer and CIS.

Zlotta AR: European Association of Urology, Milan, Italy, March 2008. (1) MSH2 mutations and bladder cancer risk: Family members of hereditary nonpolyposis colorectal cancer (HNPCC) patients with MSH2 mutations are at increased risk not only for upper urinary tract transitional cell carcinoma (TCC) but also bladder cancer, (2) Adjuvant or early state salvage treatment for advanced PCa, (3) CIS: State of the art treatment: A case-based review.


Zlotta AR: World Congress on Controversies in Urology (CURy), Barcelona, Spain, January 2008. (1) Intravesical BCG: CIS, (2) Intravesical chemotherapy: Which drug and which regimen for which patients?, (3) Is PSA a good marker?


**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


**Honours Received**


*Zlotta AR:* Third Prize for the Best Abstract for Oncology at the European Association of Urology Conference in Milan, Italy. March 2008.
The past year has been a good one for the Department of Surgery at St. Joseph’s Health Centre. Increased funding in the areas of cancer surgery, along with hip and knee replacement, has helped to significantly reduce wait times and increase patient satisfaction. We have been able to more than achieve our surgical targets for both of these areas.

In Thoracic Surgery, the hospital has made a strategic decision to become a Level I Centre, which has been accepted and supported by the University Division of Thoracic Surgery and Cancer Care Ontario. We have secured resources from the hospital to hire a third thoracic surgeon.

In Urology, Dr. Ashis Chawla has started a program in laparoscopic prostatectomy. The recruitment of Dr. Chawla has allowed us to significantly reduce our wait times for urological cancers.

The Division of General Surgery has started a community surgery fellowship, which hopefully will provide trainees with an easy transition from residency to working independently in the community.

Appointments and Promotions
Dr. George Vincent was promoted to Assistant Professor in the Division of Orthopaedic Surgery, recognizing his contribution to teaching and clinical excellence.

Dr. Umesh Jain and Dr. Tony McLean have been given appointments as Lecturer in the Division of Urology, recognizing their longstanding contributions to teaching clinical fellows.

Dr. Ronald Levine has been appointed as Director of Post-Graduate Education for the University of Toronto, Department of Surgery. This recognizes Ron’s longstanding commitment to surgical education at St. Joseph’s Health Centre and within the University of Toronto.

Dr. Leila Kasrai was appointed as the Division Head in Plastic Surgery at St. Joseph’s, replacing Dr. Levine, who held this position for more than 10 years.

Awards
Dr. Lloyd Smith won the Family Medicine Award for Best Surgical Teacher. Dr. Smith also won the Ernie Spratt Award for Resident Teaching in the Division of General Surgery, St. Joseph’s Health Centre.

Conclusion
The Department of Surgery has reaffirmed our vision to become the Best Community Teaching Hospital in Canada. Currently, we have residents and/or fellows in all our surgical sub-specialties and we continue to develop our teaching program further. Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery.
DIVISION OF GENERAL SURGERY

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

Invited Visits


Honours Received


Smith LC: The Ernie Spratt Outstanding Surgical Teacher Award as the Best Surgical Teacher at St. Joseph’s Health Centre. June 2008.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. A.W. ElMaraghy – Assistant Professor
Dr. M. Kliman – Lecturer
Dr. M. Roscoe – Lecturer (Division Head)
Dr. G. Vincent – Assistant Professor
Dr. M. Wood – Lecturer

Publications


Research and Investigations

Senior Investigator’s Name Appears in Italics

Morphometric assessment of acromial interaction with the clavicular hook plate. ElMaraghy AW, Devereaux MD, Agur A: Synthes Canada Ltd. ($30,000 2007 - 2009.)

Invited Visits


DIVISION OF PLASTIC SURGERY

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

Invited Visits

Kasrai L: Invited Speaker, Canadian Society of Plastic Surgeons, St. John’s, NFLD, June 2008. Canadian expert series: Microtia reconstruction.


Kasrai L: American Society of Plastic Surgeons, Baltimore, Maryland, October 2007. Introduction to two-stage total and subtotal auricular reconstruction - the fabrication of the three-dimensional costal cartilage framework (3-D frame.)


DIVISION OF THORACIC SURGERY

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

Publications


Invited Visits


Shargall Y: South Lake Regional Health Centre, Medical Education Retreat, Newmarket, ON, October 2007. Speaker: Medical education and the community teaching hospitals.
DIVISION OF UROLOGY

Dr. A. Chawla – Lecturer
Dr. U. Jain – Lecturer (Division Head)
Dr. A. Marcuzzi – Lecturer
Dr. A. McLean – Lecturer
It’s been another busy year for St. Michael’s Hospital and our Department of Surgery. The ancient building at 38 Shuter and accompanying annex have been completely demolished. Construction of the building is well underway for the new Li Ka Shing Knowledge Institute which will house the Keenan Research Centre as well as the Li Ka Shing International Centre in Health Care Education.

This year has been one highlighted by successes across the academic spectrum. These are too numerous to exhaustively list, but several of them are highlighted below.

Our Department had a number of individuals promoted this year. Dr. Nancy Baxter was promoted to the rank of Associate Professor. Promoted to the rank of Full Professor were Dr. Lee Errett, Dr. Michael McKee and Dr. Avery Nathens.

A number of our surgeons have taken on important leadership positions around the University. Dr. Najma Ahmed became the Program Director for the General Surgery Division. Dr. John Bohnen was appointed Vice-Dean, Clinical Affairs, Faculty of Medicine at the University of Toronto and Dr. David Latter has been appointed Vice-Chair, Education in the Department of Surgery. Outside the University, Dr. Avery Nathens has been appointed to Chair the American College of Surgeons’s National Trauma Data Bank. He has also been appointed as Medical Director for Criticall in Ontario. In this role he will work with hospitals and physicians in the province to develop improved protocols for ease of access not only for patient transfers but for medical consultants.

In June, St. Michael’s Hospital hosted a Physicians and Surgeons Education Achievement Day. Our Faculty has been honoured for their excellence in teaching with a number of recognition awards. Dr. Daniel Bonneau received the William Horsey Postgraduate Teaching Award; Dr. Vern Campbell was awarded the Donald J. Currie Teaching Award for Undergraduate Teaching; the Leo Mahoney Resident Teaching Award went to Dr. Michael Ko (Resident), and the McGoey Award in Orthopedic Surgery went to Dr. Bill Ristevski (Resident). The newly created Jameel Ali Award in Continuing Education in Surgery was announced at the award ceremony. This award is meant to acknowledge Dr. Jameel Ali for his outstanding contributions in continuing education as it relates to the development and propagation of the ATLS program, nationally and internationally, and will be awarded annually. Dr. John Bohnen was given special recognition for his longstanding contributions to Education here at the Institution and beyond. On a national note, Dr. Michael Cusimano has been awarded the prestigious John Provan Award for Excellence in Surgical Education. On the other hand, Dr. Richard Perrin will oversee the Arthur and Sonja Labatt Fellowship in Neurosurgery. Finally, Dr. Tim Daniels has devoted considerable efforts to Continuing Professional Development through his establishment of Educational Development Evenings for our Faculty.

The Institution has made progress in a number of clinical areas. Our program in Endovascular Surgery has been augmented by the appointment of Dr. Mark Peterson and Dr. Claudio Cina. The Da Vinci Robotics system was purchased by St. Michael’s Hospital through a generous donor and is now the first of its kind in the Metro Toronto area. The robot will allow our surgeons to conduct complex procedures more accurately and in a non-invasive way, resulting in faster recoveries for our patients. Drs. Ken Pace and John Honey performed the first robotic-assisted prostate cancer surgeries in Toronto. The state-of-the-art equipment is currently being co-shared by the Division of Urology for patients undergoing such procedures as prostate surgery and kidney blockages, and the Division of Obstetrics and Gynecology for hysterectomies and pelvic surgery.

The creation of the Labatt Family Centre of Excellence in Brain Injury and Trauma Research in the Keenan Research Centre of the Li Ka Shing Knowledge Institute will support St. Michael’s Hospital’s surgeon scientists who are searching for novel ways to diagnose, treat and prevent traumatic injuries. In addition, a donation from the Watters family has catapulted the development of the Wathers Family Simulation Centre where Dr. Grantcharov will be able to continue his work in Surgical Simulation.

As we shift into the next academic year, we look forward to further opportunities for continued growth and success in our Department.
DIVISION OF CARDIOVASCULAR AND THORACIC SURGERY

Dr. D. Bonneau – Associate Professor
Dr. L.E. Errett – Professor (Division Head)
Dr. D.A. Latter – Associate Professor
Dr. M.D. Peterson – Assistant Professor
Dr. S. Verma – Associate Professor

Publications


Invited Visits


Errett LE: Servier Canada Inc., Toronto, ON, April 2008. Canadian regional expert (Concept) meeting.


Errett LE: 7th International Congress on Coronary Artery Disease from Prevention to Intervention, Venice, Italy, October 2007. Is off-pump coronary artery bypass grafting worth it?

Errett LE: Canadian Cardiovascular Congress 2007, Quebec City, PQ, October 2007. Is off-pump coronary artery bypass grafting worth it?


Peterson MD: Greater Toronto Area Community Cardiovascular Specialists Organization, Bridging the Gap, Toronto, ON, January 2008. Presentation - Endovascular surgery: The evolving role of the cardiac surgeon.

Peterson MD: Scarborough Centenary, Cardiology Rounds, Toronto, ON, October 2007. Endovascular Surgery for Cardiac Surgeons.

Verma S: European Society of Hypertension, Berlin, Germany, June 2008. Do we need new strategies for organ protection?


Verma S: Hôpital Tivoli, La Louviere, Belgium, April 2008. From current to future RAS blockade.
Verma S: National Taiwan University Hospital, Taipei Veterans General Hospital, E-DA Hospital, Pingtung Christian Hospital, Chang Gung Memorial Hospital, Kuang Tien General Hospital, Taichung Veterans General Hospital, Taipei, Taiwan/Ping Tung, Taiwan/Taichung, Taiwan, April 2008. Atherosclerosis: The unique interaction between inflammation and dyslipidemia.

Verma S: (1) Universitair Ziekenhuis Brussel, (2) Universitair Ziekenhuis Antwerpen, (3) Universitair Ziekenhuis Gent, (a) Laarbeeklaan, Brussels, (b) Antwerp, (c) Ghent - Belgium, April 2008. From current to future RAS blockade.

Verma S: (1) Vergaderzaal Cradiologie, Onze-Lieve-Vrouw (OLV) Ziekenhuis, (2) 3eme etage, Hôpital St. Luc, Universite Catholique de Louvain, (3) Katholieke Universiteit Leuven, (3) Universite de Liege, (a) Aalst, (b) Louvain-la-Neuve, (c) Leuven, (d) Liege - Belgium, April 2008. From current to future RAS blockade.


Research and Investigations


Telomerase regulation by C-reactive protein. *Verma S: Canadian Institutes of Health Research*. ($330,000 2005 - 2008.)

Traineeship in atherosclerosis program. *Verma S: Canadian Research-Based Pharmaceutical (Rx and D) Companies*. ($1,200,000 2006 - 2010.)

Honours Received

Bonneau D: Postgraduate Teaching Award, St. Michael’s Hospital. June 2008.

DIVISION OF GENERAL SURGERY

Dr. N.A. Ahmed – Assistant Professor
Dr. J. Ali – Professor
Dr. N. Baxter – Associate Professor
Dr. J.M.A. Bohnen – Professor
Dr. M.J. Burnstein – Associate Professor
Dr. T. Grantcharov – Assistant Professor
Dr. A. Kapus – Associate Professor
Dr. J. Koo – Associate Professor
Dr. W. Kuebler – Associate Professor
Dr. J.C. Marshall – Professor
Dr. R. Mustard – Associate Professor
Dr. A.B. Nathens – Professor (Division Head)
Dr. O.D. Rotstein – Professor
Dr. K. Szaszi – Assistant Professor

Publications


Habermann EB, Virmig BA, Riley GF, Baxter NN: The impact of a change in Medicare reimbursement policy and HEDIS measures on stage at diagnosis among Medicare HMO and Fee-For-Service female breast cancer patients. Medical Care: July 2007: 45: pp 761-766.


Invited Visits

Ahmed NA: Association for Surgical Education, Toronto, ON, April 2008. Meeting the educational needs of off-service residents rotating on a surgical service.


Ali J: External Examiner, University of the West Indies, Trinidad and Barbados, June 2008.


Ali J: St. Georges’ University, Grenada, January 2008. (1) Advanced trauma life support program, (2) Prehospital trauma life support program,( 3) Trauma evaluation and management.


Baxter N: American College of Surgeons, Annual Meeting, New Orleans, Louisiana, October 2007. Stage II colon cancer: A 12 node minimum is not the right metric.


Burnstein MJ: Crohn’s and Colitis Foundation, Toronto, ON, April 2008. Surgery for IBD.


Grantcharov T: 16th Congress of the European Association of Endoscopic Surgery, Stockholm, Sweden, June 2008. (1) How to start an advanced minimally invasive surgery practice? Pre-OR training, (2) Laparoscopic repair of giant paraesophageal hernias, anti-reflux procedure - do we need it and which technique?


Grantcharov T: Aarhus University, Hospital Grand Rounds, Department of Surgery, Aarhus, Denmark, February 2008. (1) How to organize a comprehensive curriculum in minimally invasive surgery, (2) Planning a career in surgery, (3) Minimally invasive therapy for gastric cancer. Live surgery and current state of evidence.


Grantcharov T: Aarhus University Hospital, Department of Surgery, Grand Rounds, Aarhus, Denmark, February 2008. Planning a career in surgery.


Marshall JC: Critical Care Canada Forum, Toronto, ON, October 2007. (1) A critique of the sepsis-related organ failure assessment (SOFA) score, (2) From biology to physiology to epidemiology, (3) Neutrophil survival in sepsis, (4) When does research become knowledge?


Nathens AB: Surgical Site Infections (SSI) National Teleconference, Safer Healthcare NOW!, Toronto, ON, January 2008. Presentation - SSI prophylaxis: Perspective from the University of Toronto teaching hospitals.


Rotstein OD: Bayer Anti-Infectives Division, Round Table Discussion, Toronto, ON, September 2007. What Bugs?


Rotstein OD: York Central Hospital, Department of Surgery Rounds, Thornhill, ON, September 2007. Update in the management of infections in surgery with a focus on complicated intra-abdominal infections.


Research and Investigations
Senior Investigator’s Name Appears in Italics


Canada Research Chair in trauma systems development. Nathens AB: Canadian Government. ($500,000 2006 - 2011.)


CIHR team grant for clinical research network: The Canadian Critical Care Trials Group (Declined). Marshall JC, Cook D: Canadian Institutes of Health Research. ($10,000 2007 - 2008.)

Clinical research network for the treatment of acute lung injury (ALI) and acute respiratory distress syndrome (ARDS) (2.5% effort.) Nathens AB: National Institutes of Health. ($1,707,932 2006 - 2012.)

Clinical trials incubator unit, Specialized Centers of Clinically Oriented Research (SCCOR) program in acute lung injury (20% effort). Nathens AB: National Institutes of Health. ($1,707,032 2003 - 2008.)


Frederick Banting and Charles Best Canada Graduate Scholarship - Doctoral Award. Hill A, Nathens AB, Fowler RA: Canadian Institutes of Health Research. ($105,000 2008 - 2011.)

Mechanisms of macrophage priming for LPS signaling by oxidative stress. Rotstein OD: Canadian Institutes of Health Research. ($110,162 2005 - 2010.)


PROphylaxis of thromboEmbolism in Critical Care Trial (PROTECT). Cook DJ, Marshall JC: Canadian Institutes for Health Research. ($4,800,000 2005 - 2009.)


Regulation of intercellular contacts in kidney tubular epithelium. Szaszi K: Kidney Research Scientist Core Education and National Training (KRESCENT) Program, New Investigator Award, Kidney Foundation of Canada. ($180,000 2007 - 2010.)

Regulation of intercellular contacts in kidney tubular epithelium. Szaszi K: Kidney Research Scientist Core Education and National Training (KRESCENT) Program, Infrastructure Support, Kidney Foundation of Canada. ($25,000 2007.)


The role of the cell contact-cytoskeleton-nucleus axis in epithelial-mesenchymal transition of kidney tubular cells. Kapus A, Szaszi K: Kidney Foundation of Canada. ($100,000 2007 - 2009.)


Treatment and survivorship in young adults with cancer. Baxter NN, Urbach D, Rabeneck L: Ontario Ministry of Research and Innovation Early Researcher Award. ($190,000 2007 - 2012.)

Honours Received

Ahmed NA: Best paper (interprofessional) for “A real-time performance improvement activity implemented through a nursing fellowship,” at the Annual Scientific Meeting of the Trauma Association of Canada. April 2008.


Bohnen JMA: Arbor Award for Outstanding Volunteer Service to the University of Toronto. September 2007.


Grantcharov T: Professional Association of Interns and Residents of Ontario (PAIRO) Trust Travel Award for Clinical Educators. May 2008.
DIVISION OF NEUROSURGERY

Dr. M.D. Cusimano – Professor
Dr. H.J. Ginsberg – Assistant Professor
Dr. R.L. Macdonald – Professor (Division Head)
Dr. P.J. Muller – Professor
Dr. R.G. Perrin – Associate Professor
Dr. T. Schweizer – Assistant Professor
Dr. J.S. Spears – Assistant Professor
Dr. W.S. Tucker – Associate Professor

Publications


Invited Visits

**Cusimano MD:** Chordoma Foundation, Bethesda, Maryland, April 2008. Chordoma presentation.


**Cusimano MD:** International Conference on Urban Health, Baltimore, Maryland, October 2007. The spatial association between the location of injury and land uses (presented by Marshall S.)


**Cusimano MD:** Schloffer Conference and the International Society of Pituitary Surgeons (ISPS) Meeting 2007, Vienna, Austria, September 2007. Immunohistochemical expression of PTTG in pituitary adenomas.

**Macdonald RL:** American Association of Neurological Surgeons, 76th Annual Meeting, Chicago, Illinois, April 2008. (1) Moderator: Cerebral neuromonitoring, (2) Invited Speaker - (a) Management of cerebral vasospasm, (b) Does country or continent of treatment affect outcome after aneurismal subarachnoid hemorrhage?

**Macdonald RL:** 2nd International Cerebral Hemorrhage Conference, Shanghai, China, November 2007. (1) Moderator - Plenary Session, (2) Invited Speaker: Cerebral vasospasm after subarachnoid hemorrhage: Need for further study.

**Macdonald RL:** Canadian Association of Neuropathologists, 47th Annual Meeting, Niagara Falls, ON, September 2007. Case presentation: Anaplastic ganglioglioma (WHO Grade IV.)


**Macdonald RL:** European Congress of Neurosurgery, Glasgow, Scotland, September 2007. Invited Speaker: Randomized trial of clazosentan, an endothelin A receptor antagonist, for prevention of vasospasm after aneurysmal subarachnoid hemorrhage.

**Perrin RG:** Neurosurgical Society of America, Whistler, British Columbia, June 2008. Canadian, eh?


**Perrin RG:** 7th International Congress on Minimally Invasive Neurosurgery, Suzhou, China, November 2007. (1) Clips vs. coils in the management of cerebral aneurysms, (2) WFNS (World Federation of Neurological Societies) uniting neurosurgeons worldwide, (3) Endovascular therapy - surgery vs. stenting for carotid occlusive disease.

**Perrin RG:** World Federation of Neurosurgical Societies, Nagoya, Japan, November 2007. Chair of Surgery for Spinal Lesions Sessions.


**Spears JS:** University of West Indies, Caribbean Neurosciences Symposium, Montego Bay, Jamaica, January 2008. (1) Modern neurovascular practice, (2) Clinical teaching rounds.

**Spears JS:** Ottawa Hospital, Neurosurgery Teaching Rounds, Ottawa, ON, October 2007. International, prospective study of radiographic and clinical events in the management of aneurysms.

**Tucker WS:** Canadian Neurological Sciences, Medical Legal Symposium, Federation, Toronto, ON, June 2008. Presenter.
Research and Investigations

Senior Investigator’s Name Appears in Italics

3-D computer simulator of spinal fusion surgery. Ginsberg H, Whyne C: Stryker Canada. ($15,000  2006 - 2008.)

A driving simulator study of brain tumor patients with focal cerebellar lesions. Cusimano MD, Schweizer T: Brain Tumor Foundation of Canada. ($25,000  2008 - 2009.)

Bicyclists’ injuries and the cycling environment (BICE). Teschke K, Cusimano M (Toronto lead investigator), Chipman M, Friedman S: Canadian Institutes of Health Research. ($250,000  2007 - 2008.)

Bicyclists’ injuries and the cycling environment (BICE). Teschke K, Cusimano M (Toronto lead investigator, Chipman M, Friedman S: Heart and Stroke Foundation. ($329,000  2007 - 2008.)


Compromised driving ability in trauma and neurosurgery patients: A driving simulator study of patients with focal cerebellar lesions. Cantelmi D, Cusimano MD, Schweizer TA: Trauma/Neurosurgery Program, Internal Multi-Disciplinary Small Grant Program, St. Michael’s Hospital. ($1,500  2007 - 2008.)

Currently investigating novel strategies for intra-operative navigation during spinal instrumentation surgery. Ginsberg H, Cobbold R: National Sciences and Engineering Research Council (NSERC) of Canada - $15,000 and DePuy Spine - $30,000 (Johnson and Johnson). ($45,000 2006 - 2008.)

Development of a Novel Computer Program to evaluate patients with emergencies in the fluid, electrolyte and acid-base area. Halperin ML, Kamel KS, Mazer D, Ginsberg HJ, Bohn D, Davids MR: Keenan Award. ($25,000  2006 - 2007.)

Hippocampal radiosurgery exposure and memory. Menard C, Cusimano MD: Brain Tumor Foundation. ($22,950  2007 - 2008.)


Pedicle Screw Insertion Simulator Study. Ginsberg H, Whyne C, Massicotte E, Martin A: Trauma and Neurosurgery Multi-Disciplinary Small Grant Program, St. Michael’s Hospital. ($2,000  2008 - 2009.)


Secondary neurological injury after subarachnoid hemorrhage in dogs: Role of thromboembolism, microcirculatory spasm and delayed neuronal apoptosis. (Summer Student Award to Mohammed Sebri, Faculty Supervisor). Macdonald RL: St. Michael’s Hospital. ($4,000 2007.)

Spinous process less invasive extendable (SPLINE) fusion - A less invasive extendable device for posterior spinal fusion. Ginsberg H, Whyne C (Director of Biomechanics Lab, Sunnybrook Hospital), Singh D: Ministry of Research and Innovation. ($10,000  2007 - 2008.)

The fractionation and localization of attentional and language processing in the cerebellum. Stuss DT, Alexander MP, Schweizer TA, Cusimano M: Canadian Institutes of Health Research. ($270,444  2006 - 2010.)

Honours Received

**Cusimano MD:** Alan R. Hudson Teaching Award. May 2008.

**Cusimano MD:** Provan Teaching Award--Undergraduate Teaching. December 2007.

**Spears JS:** Heart and Stroke Foundation Phase 1 Clinician - Scientist Award (3 Years - $192,000) Renewed.

DIVISION OF ORTHOPAEDIC SURGERY

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

Publications


Invited Visits


Daniels TR: American Orthopaedic, Foot and Ankle Society (AOFAS) Specialty Day, San Francisco, California, March 2008. Total ankle arthroplasty: Debate on the merits of total ankle arthroplasty as a treatment for end-stage ankle arthritis (TAA vs. fusion.)


Daniels TR: Kantonsspital, Orthopaedic Department (Switzerland)/Integra Life Sciences, Lyon, France, November 2007. (1) Guest Speaker - Liestal course: Total ankle arthroplasty: Hintegra Experience.


Daniels TR: American Orthopaedic Foot and Ankle Society (AOFAS), Toronto, ON, July 2007. (1) Cavus/varus foot and ankle deformities, (2) Feasibility of ankle joint replacement in the presence of moderate to severe coronal plane deformities of the ankle (varus/valgus), (3) patients with end-stage ankle and hip arthritis have similar poor health-related quality of life, (4) Reconstructive options for ankle OA: The Canadian experience - Total ankle replacement using STAR implant.


McKee MD: Orthopaedic Trauma Association, Basic Science Focus Forum, Boston, Massachussetts, October 2007. (1) Proximal humeral fractures in the older patient: Have we solved the fixation problem?, (2) The role of BMPs in nonunions: Should they be standard of care?


McKee MD: Principles and Practice of Clinical Research, Mississauga, ON, September 2007. How to minimize bias in a non-randomized trial.


Schemitsch EH: 2nd Annual Canadian Navigation User’s Meeting, Montreal, PQ, May 2008. RCTs (randomized controlled trials) and surgical navigation.


Schemitsch EH: Queens University, Department of Surgery and Division of Orthopaedics, Kingston, ON, April 2008. (1) Royal College Guest Lecturer - Current concepts in the treatment of open tibia fractures: From bench to bedside. (2) Visiting Professor: (a) BMPs (bone morphogenetic proteins) in trauma, (b) Clavicle fractures.


Schemitsch EH: Orthopaedic Trauma Association (OTA), Basic Science Focus Forum, Annual Meeting, Boston, Massachusetts, October 2007. (1) Session/symposium moderator: (a) Evidence based approach to bringing new orthopaedic devices to market, (b) BMPs (bone morphogenetic proteins): Clinical evidence and future solutions, (c) Commonly asked questions in orthopaedic research, (2) Lecture: (a) The pivotal clinical trial, (b) How to get funding for clinical research, (c) What can I do to decrease bias.

Schemitsch EH: Advances in Revision Total Knee Arthroplasty, Toronto, ON, October 2007. (1) Unstable patellofemoral joint, (2) Dealing with bone loss-metal augments, (3) Wound problems.


Schemitsch EH: Principles of Clinical Research, Nice, France, September 2007. (1) Moderator, (2) Breakout session leader: Writing a successful research proposal, (3) What are the responsibilities of site investigators.


Waddell JP: University of Iowa, Department of Orthopaedics and Rehabilitation, Senior Resident Day, Iowa City, Iowa, June 2008. (1) Current management of open fractures, (2) Options in reconstructive hip surgery.

Waddell JP: Canadian Orthopaedic Association and the American Orthopaedic Association, Combined Meeting, Quebec City, PQ, June 2008. Symposium 2, Orthopaedic Education Speaker: Practice environment: How attractive is our job?


Waddell JP: Egyptian Orthopaedic Association, Cairo, Egypt, November 2007. (1) Planning and management of complex total hip arthroplasty, (2) Planning and management of revision total hip arthroplasty.


Waddell JP: University Hospital, Cairo, Egypt, November 2007. Postgraduate training in orthopaedic surgery.


Waddell JP: 3rd Mid-East Computer Assisted Orthopaedic Surgery (CAOS) Symposium held in conjunction with the Societe Internationale de Chirurgie Orthopedique et de Traumatologie (SICOT) meeting, Marrakech, Morocco, August 2007. Templating for total hip arthroplasty.


Whelan DB: Ecuador Society of Orthopedics and Trauma and Pichincha Medical College, Quito, Ecuador, January 2008. (1) Knee dislocation or multiligament knee injury, (2) Anterior cruciate ligament diagnosis and repair, (3) Shoulder instability.

Research and Investigations

Senior Investigator’s Name Appears in Italics

A prospective randomized controlled pilot clinical study to evaluate the safety and efficacy of GEM OS2 injectable B-TCP/Collagen Matrix Plus rhPDGF-BB. Ahn H, Montanera W: Biomimetics. ($140,000 2007 - 2008.)

A prospective randomized trial investigating the effect of a novel reamer irrigator aspirator on the incidence of fat embolism and respiratory function during intramedullary nailing of femoral shaft fractures. Schemitsch EH, McKee MD: Orthopaedic Trauma Association. ($49,000 2006 - 2008.)


A prospective RCT investigating the effect of a novel reamer aspirator on the incidence of fat embolism during IM (intramedullary) nailing of femoral shaft fractures. McKee MD, Schemitsch EH, Bhandari M, Davis E: Orthopaedic Trauma Association. ($65,000 2005 - 2007.)

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 cannulated screws vs. sliding hip screws for femoral neck fractures. Bhandari M, Schemitsch EH: Canadian Institutes of Health Research. ($160,267 2008 - 2010.)

A randomized trial of fluid lavage in open wounds. Bhandari M, Petrisor B, Schemitsch EH, Flow Investigators (co-Principal Investigator and Steering Committee): Osteosynthesis and Trauma Care Foundation. ($50,000 2008 - 2010.)

A randomized trial of fluid lavage in open wounds. FLOW (Schemitsch EH: co-Investigator, Steering Committee Member): Canadian Orthopaedic Association. ($10,000 2005 - 2007.)

A randomized trial of fluid lavage in open wounds. FLOW Investigators (Schemitsch EH: co-Investigator, Steering Committee Member): McMaster University - Department of Surgery. ($12,630 2008 - 2010.)


A randomized trial of non-operative versus operative treatment of acromioclavicular injuries. *McKee MD*, Schemitsch EH, Canadian Orthopaedic Trauma Society: *Osteosynthesis and Trauma Care Foundation*. ($50,000 2007 - 2009.)


Assessment of a computerized navigation system in a cadaveric lower extremity model. *Schemitsch EH: Stryker*. ($20,000 2006 - 2007.)


Data collection and analysis from the Ontario Osteoporosis Strategy Post-fracture Osteoporosis Coordinator Program in Ontario fracture clinics. *Bogoch ER*, Beaton DE: *Ministry of Health and Long-Term Care, Province of Ontario*. ($325,000 2008 - 2009.)


GEMOS-1 randomized clinical trial. *Daniels TR: BioMimetic Therapeutics Inc*. ($100,000 2007 - 2008.)

Osteoporosis care for fragility fracture patients. *Bogoch ER: Martin Family Foundation*. ($100,000 2007.)


Randomized clinical trial of ankle fusion versus ankle arthroplasty. Daniels TR, Younger A, Glazebrook M: American Orthopaedic Foot and Ankle Society Research Grant. ($10,000 2007 - 2008.)

Refining the coordinator model of post fracture osteoporosis care. Bogoch ER: Procter and Gamble Pharmaceuticals. ($50,000 2007.)


To brace or not to brace in stable thoracolumbar burst fractures: A pilot prospective randomized controlled trial. Wai E, Ahn H: Physicians’ Services Incorporated. ($25,000 2007 - 2008.)


Trial to re-evaluate ultrasound in the treatment of tibial fractures. Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D: TRUST Investigators (co-Investigator and Steering Committee): Canadian Institutes of Health Research/Smith & Nephew. ($2,025,469 2007 - 2010.)


Use of a novel scaffold to accelerate fracture healing. Kuzyk P, Schemitsch EH, Davis J: Osteosynthesis and Trauma Care Foundation. ($10,000 2007 - 2009.)

Honours Received


Schemitsch EH: Neer Award for Best Paper, American Shoulder and Elbow Surgeons Open Meeting (McKee, Schemitsch and the Canadian Orthopaedic Trauma Society.) July 2007.

DIVISION OF PLASTIC SURGERY

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

Publications


Invited Visits

Mahoney JL: Baylor College of Medicine, Sternal Wound Management: New Surgical Strategies, Houston, Texas, June 2008. (1) Basic principles of wound care and osteosynthesis, (2) Stabilization and reconstruction of the thorax.


Mahoney JL: The University of Texas Southwestern Medical Center, Dallas, Texas, April 2008. (1) Initial management of sternal wounds, (2) Post-operative issues.


Mahoney JL: Laval University, Deep Sternal Wound Infection Symposium, Laval, PQ, August 2007. (1) History of sternal plating and current concepts, (2) The approach of the plastic surgeon, muscle flaps.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Negative pressure wound therapy (NPWT) for the treatment of chronic pressure wounds. Mahoney JL, Goeree R, Teague L: Programs for Assessment of Technology in Health (PATH) Research Institute. ($250,000 2008 - 2009.)

DIVISION OF UROLOGY

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

Publications


Invited Visits


Pace KT: Canadian Transplant Fellows Symposium, Toronto, ON, October 2007. Laparoscopic donor nephrectomy: Pro.


Research and Investigations
Senior Investigator's Name Appears in Italics

A randomized, double-blinded placebo-controlled trial of alfuzosin (Xatral) in the management of distal ureteral calculi. Pace KT, Honey RJ, Chisholm D, Laroche B: Investigator-initiated multi-centered randomized clinical trial, funded by Sanofi-Aventis. ($100,000 2007 - 2009.)

DIVISION OF VASCULAR SURGERY

Dr. F.M. Ameli – Associate Professor (Division Head)
Dr. C. Cina – Professor
Dr. V.M. Campbell – Lecturer
Dr. A.G. Lossing – Associate Professor
Dr. W. Tanner – Lecturer

Invited Visits


Honours Received
SUNNYBROOK HEALTH SCIENCES CENTRE

Heads of Divisions
Dr. S. Fremes – Cardiac and Vascular Surgery
Dr. A. Smith – General Surgery
Dr. M. Schwartz – Neurosurgery
Dr. H. Kreder – Orthopaedic Surgery
Dr. P. Binhammer – Plastic Surgery
Dr. L. Klotz – Urology

Robin Richards
Surgeon-in-Chief

Sunnybrook underwent a strategic refocusing exercise during the year confirming the role of trauma, cancer and cardiovascular interventional care as being central Institutional foci with strong surgical components. The large and long-awaited M Wing and Emergency Department expansions were underway throughout the year. These sizeable projects will open new chapters in Sunnybrook’s history.

New Staff
Markku Nousiainen was appointed as a Surgeon-Investigator in the Division of Orthopaedic Surgery to develop a practice in total joint replacement and musculoskeletal trauma and perform educational research. Andrew Dueck was appointed as a Surgeon-Investigator in the Division of Cardiac and Vascular Surgery to perform both open and percutaneous vascular surgical procedures and vascular imaging research. Doug McKay was appointed as a Clinical Associate in the Division of Plastic Surgery to provide trauma and reconstructive services. Ifikhar Haq was appointed as a Clinical Associate in the Division of Neurosurgery to augment provision of neurosurgical clinical care.

Appointments and Promotions
Peter Chu was promoted to Associate Professor in recognition of his sustained excellence in teaching in General Surgery. Calvin Law was promoted to Associate Professor for his scholarship in research in the surgical treatment of gastrointestinal malignancy. Robert Nam was promoted to Associate Professor for his research in the areas of prostate cancer, biomarkers and genetics. Albert Yee was promoted to Associate Professor in recognition of his research into the mechanisms of spinal disease processes. Terry Axelrod was promoted to Full Professor for his sustained excellence in teaching orthopaedic traumatology at the local, national and international levels.

Sender Herschorn continued in his role as the inaugural holder of the Martin Barkin Chair in Urological Research and Chair of the University Division of Urology. Andy Smith continued as the inaugural leader of knowledge translation in the Centre for Health Services Research of the Sunnybrook Research Institute, established to identify opportunities for improvement and innovation at the interface between care and research. Laurence Klotz, Editor-in-Chief of the Canadian Urological Association Journal, was installed as President of the Canadian Urology Association. Lesley Carr was elected President of the Medical-Dental-Midwifery Staff Association.

Educational Activity and Awards
Ron Kodama received a Peters-Boyd Clinical Teaching/Supervision Award. Ron also received the Tovee Award for Postgraduate Education at Gallie Day and the Division of Urology A.W. Bruce Undergraduate Teaching Award. John Murnaghan received the University of Toronto Surgical Skills Centre Distinguished Education Award for exemplary, innovative contributions to teaching and learning in the Surgical Skills Centre. Manuel Gomez and colleagues received the Best Trauma Coordinator of Canada Presentation Award at the annual scientific meeting of the Trauma Association of Canada for their presentation, “Effectiveness of the PARTY Program in Changing Youth Driving Related Attitudes.” Rob Nam received the Division of Urology Postgraduate Teaching and Lecture Awards.

Andy Smith helped to organize and also participated in the 48th Annual Update in General Surgery. Fred Brenneman, Natalie Coburn, Darlene Fenech, Claire Holloway, May Lynn Quan, Sandro Rizoli, Andy Smith, Homer Tien and Frances Wright also participated in this annual course. Oleh Antonyshyn, assisted by Jeff Fialkov, together with colleagues from the Department of Otolaryngology and Head and Neck Surgery organized a second successful craniofacial surgery symposium with live surgical demonstrations. Albert Yee and Cari Whyne organized and participated in a successful symposium on emerging spinal technologies. Mike Ford also participated in this symposium together with four guest faculty from other institutions. Jeff Gollish, together with colleagues from the Division of Orthopaedic Surgery and the Department of Anaesthesia at the Holland Orthopaedic and Arthritic Centre, organized a symposium directed towards Optimizing Function Following Total Hip and Knee Replacement. Robin Richards co-directed and participated in the 24th Annual Upper Extremity Update together with Terry Axelrod, Richard Holtby and Stewart Wright.

Research Activity and Awards
Robert Nam received an early researcher award from the Ministry of Research and Innovation. Joel Fish received the Charles H. Tator Surgeon-Scientist Mentoring Award at Gallie Day for excellence in research, commitment to mentoring and dedication to promotion of Surgeon-Scientists. Karen Cross, supervised by Joel Fish, received the Wyeth Award in Clinical Epidemiology/Education for their study “Redefining the gold standard and establishing a grading system for tissue injury” at Gallie Day. Vanessa Wong, with co-authors Manuel Gomez and Rob Cartotto, won an award for their presentation regarding the objective estimation of survival in burn patients at the annual meeting of the American Burn Association.
Albert Yee, Cari Whyne, and Joel Finkelstein received Canadian Institutes of Health Research (CIHR) funding. Anna Gagliardi received a CIHR Operating Grant and a five-year CIHR New Investigator Award in Knowledge Translation. Sandro Rizoli received a CIHR New Investigator Award. Vasundara Venkateswaran was appointed a member of the CIHR Nutrition, Food and Health grants committee.

Natalie Coburn received a substantive three-year National Cancer Institute of Canada (NCIC) grant to develop and measure quality indicators to improve gastric cancer survival.

May Lynn Quan received funding for three years from the Canadian Breast Cancer Foundation for her study of young women with breast cancer. Cari Whyne received three years funding from the Ontario Institute for Cancer Research for her study on the impact of photodynamic therapy on the biomechanical stability of the metastatic spine. Veronica Wadey received funding from the ACMS Academic Trust for her study of interactive on-line training on knowledge and skills acquisition in patients with inflammatory arthritis. Sandro Rizoli received The Physicians’ Services Incorporated (PSI) Foundation funding for a study of occult pneumothoraces in mechanically ventilated patients. Robin Richards and co-investigator, Chris Robertson, received funding from the PSI Foundation for a study of the influence of BMP-2 on graft incorporation.

Other Awards and Activities
Joe Schatzker was appointed as a Member of the Order of Canada for his contributions to orthopaedic surgery, particularly for introducing surgical procedures for the internal fixation of fractures to North America. Robert Nam was named the recipient of the 2008 Medal in Surgery from the Royal College of Physicians and Surgeons of Canada for his work on gene fusion and prostatic cancer. Robert delivered a presentation regarding prostate cancer genetics in a symposium on the role for surgeons in oncology research at Gallie Day. Sandro Rizoli was appointed as the de Sousa Chair in Trauma Research for a five-year term.

Andy Smith was unanimously selected as the James IV Travelling Fellow for 2009, having been reappointed for a second term as Head of the Division of General Surgery after external review by Dr. Don Buie of the University of Calgary. Daryl Kucey was installed as President of the Canadian Society for Vascular Surgery. Hans Kreder received a Presidential Medal and Jeff Gollish received the Laurin Award at the Annual General Meeting of the Canadian Orthopaedic Association. Ron Kodama was appointed President of the Canadian Academy of Urologic Surgeons.

Dr. Steve Fremes’ appointment as Head of the Division of Cardiac and Vascular Surgery was extended following an internal review. Steve was elected to the American Surgical Association. Joel Fish was appointed Chief Medical Officer at St. John’s Rehabilitation Hospital. Robert Cartotto was appointed acting Medical Director of the Ross Tilley Burn Centre. Andy Smith and Laurie Klotz received the Tile Award for outstanding service to the Department. Michael Ordon, Steve Lopushinsky, Mansour Alvi and Robert Hamilton received Harrison Awards for clerkship teaching. Several fundraising events were held in support of the establishment of the Dr. Bernard Goldman Chair in Cardiovascular Surgery. Dr. Goldman gave the W.G. Bigelow Lecture at the Canadian Cardiovascular Society.

Retirements and Sabbaticals
Joel Fish completed his sabbatical in New Zealand where he had been asked to establish a national burn care system. Joel completed his term as Medical Director of the Ross Tilley Burn Centre, remaining at Sunnybrook as a burn surgeon. Fred Brenneman completed a two-year term as President of the Trauma Association of Canada.

Conclusion
As the year concluded efforts were underway to appoint new staff in cardiac and vascular surgery, neurosurgery, orthopaedic surgery and neurosurgery. The institution welcomed Dr. Barry McLellan as President and Chief Executive Officer in September and Dr. Keith Rose as Chief Medical Officer in April. The department looked forward to working with the institution in implementing the strategic refocusing exercise, recognizing the need to continually focus its activity in the context of limited provincial surgical capacity. The department remains thankful for both present and future opportunities and the substantive role it has been asked to play within our institution and by our university department, our faculty, the Toronto Central Local Health Integrated Network, our surrounding Local Health Integrated Networks and the Province.
DIVISION OF CARDIAC AND VASCULAR SURGERY

Dr. G.T. Christakis – Professor
Dr. G. Cohen – Assistant Professor
Dr. A. Dueck – Assistant Professor
Dr. S.E. Fremes – Professor (Division Head)
Dr. B.S. Goldman – Professor
Dr. D.S. Kucey – Assistant Professor
Dr. R. Maggissano – Associate Professor

Publications


Invited Visits


Fremes SE: Dalhousie University, Annual Department of Surgery Research Day, Cardiac Surgery, Halifax, NS, April 2008. Improving the outcomes of cardiac surgery.

Goldman BS: Toronto Rehab, 3rd Annual Cardiac Rehabilitation Symposium, Toronto, ON, May 2008. Whatever happened to coronary bypass surgery?

Goldman BS: Five Chiefs Family Medicine Clinic Day, Markham, ON, April 2008. Whatever happened to the coronary bypass.

Goldman BS: Southlake Regional Health Sciences Centre, Newmarket, ON, April 2008. Whatever happened to the coronary bypass.


Goldman BS: Edith Wolfson Medical Center, 2nd Angela and Sami Shamoon Seminar on Congenital and Adult Cardiac Surgery, Holon, Israel, October 2007. To stent or not to stent - State of the art of stentless prosthesis.

Goldman BS: Dalhousie University, Halifax, NS, September 2007. Implantation of cardiac rhythm devices.


Kucey DS: MEDCAN, Toronto, ON, June 2008. Screening for asymptomatic carotid disease.


Research and Investigations

Senior Investigator’s Name Appears in Italics


CABG off or on pump revascularization study (CORONARY). Lamy A, Yusuf S, Taggart D, Murkin J, Fremes SE: Canadian Institutes of Health Research. ($6,580,411 2007 - 2014.)


FREEDOM Trial - Future revascularization evaluation in patients with diabetes mellitus: Optimal management of multivessel disease. Fuster V, Fremes SE, the FREEDOM Study Investigators: National Heart, Lung and Blood Institute. ($162,000 2006 - 2011.)


Honours Received


DIVISION OF GENERAL SURGERY

Dr. F.D. Brenneman – Associate Professor
Dr. P.T.Y. Chu – Associate Professor
Dr. N.S. Coburn – Assistant Professor
Dr. D.S. Fenech – Assistant Professor
Dr. A.R. Gagliardi – Assistant Professor
Dr. S.S. Hanna – Associate Professor
Dr. C.M.B. Holloway – Associate Professor
Dr. C.H.L. Law – Associate Professor
Dr. M.L. Quan – Assistant Professor
Dr. S. Rizoli – Associate Professor
Dr. T.M. Ross – Associate Professor
Dr. A.J. Smith – Associate Professor (Division Head)
Dr. H.C. Tien – Assistant Professor
Dr. L. Tremblay – Assistant Professor
Dr. F.C. Wright – Assistant Professor

Publications


Invited Visits


Brenneman FD: Johnson and Johnson, Professional Education Seminar, Quebec City, PQ, April 2008. (1) Laparoscopic ventral hernia repair - Tips and techniques, (2) UHS for inguinal hernia repair.

Brenneman FD: Trauma Association of Canada, Annual Scientific Meeting, Whistler, BC, April 2008. (1) AIS 2005 yields lower injury severity scores in trauma patients, (2) Dosage of factor VIIa (rFVIIa) and mortality in bleeding trauma patients, (3) Factor VIIA (rFVIIa) and thromboembolic complications in bleeding trauma patients, (4) Glycemic control in severe trauma patients - How many become hyper or hypoglycemic, (5) High frequency oscillatory ventilation of trauma patients with acute respiratory distress syndrome who fail conventional mechanical ventilation, (6) Holiday weekend motor vehicle related trauma, 6) President's address - TAC: Strengths and future directions.
**Brenneman FD:** Royal College of Physicians and Surgeons of Canada, Annual Meeting, Surgical Society, Kamloops, BC, March 2008. Speaker: (1) Clinical updates in trauma, (2) FAST - Where are we today.

**Brenneman FD:** Johnson and Johnson, Professional Education Seminar, Saint John, NB, November 2007. Advances in laparoscopic ventral hernia repair.

**Brenneman FD:** Portuguese Society of Surgery/University of Minho, Trauma Conference, Braga, Portugal, November 2007. Keynote Speaker: (1) Management of abdominal trauma, (2) FAST trauma ultrasound course.


**Brenneman FD:** Greater Niagara Falls Hospital, Niagara Falls, ON, October 2007. OR teaching - Advanced inguinal hernia repair techniques - Dr. Rajagopaul.

**Brenneman FD:** Johnson and Johnson, Professional Education Seminar, Thunder Bay, ON, October 2007. Advances in laparoscopic ventral hernia repair.

**Brenneman FD:** Thunder Bay Regional Health Centre, Thunder Bay, ON, October 2007. OR teaching - Advanced laparoscopic ventral hernia repair techniques - Dr. Chris Decker.


**Brenneman FD:** International Association of Trauma and Surgical Critical Care (IATSSC), Trauma Association of Canada (TAC) Symposium, International Surgery Week (ISW 2007), Montreal, PQ, August 2007. Moderator: Health resource teams and major incident response.

**Brenneman FD:** McGill University, Health Centre, Montreal, PQ, August 2007. Course Instructor: Definitive surgical trauma care (DSTC).

**Brenneman FD:** Johnson and Johnson, Professional Education Seminar, Alliston, ON, July 2007. Advances in laparoscopic ventral hernia repair.

**Brenneman FD:** Stevenson Memorial Hospital, Alliston, ON, July 2007. OR teaching - Advanced laparoscopic ventral hernia repair techniques.

**Coburn NG:** Update in General Surgery 2008, Toronto Convention Centre, Toronto, ON, April 2008. Modern management of gastric cancer.

**Coburn NG:** 3rd Annual Surgical Oncology Education Day, Odette Cancer Centre, Toronto, ON, February 2008. Caring for patients with gastric cancer.

**Coburn NG:** Cancer Care Ontario/Canadian Association of General Surgeons, Toronto, ON, July 2007. Defining quality in gastric cancer surgery.

**Fenech DS:** Colon Cancer Association of Canada, Patient Support Group, Toronto, ON, May 2008. Surgical management of colon and rectal cancer.

**Fenech DS:** Canadian Surgery Forum, Toronto ON, September 2007. Anastomotic stricture.

**Gagliardi AR:** Ottawa Health Research Institute, Ottawa, ON, October 2007. Developing capacity for knowledge translation: Identifying and evaluating factors that improve the effectiveness of practice guideline implementation.


**Hanna SS:** Nanjing First Hospital Cancer Symposium, Nanjing, China, November 2007. (1) Advances in the treatment of pancreatic cancer, (2) Surgical management of cholangiocarcinoma, (3) Surgical management of gallbladder cancer.

**Hanna SS:** Nanjing First Hospital, Nanjing, Jiangsu Province, China, October 2007. Visiting Professor.

**Holloway CMB:** Nanjing First Hospital, Nanjing, Jiangsu, China, November 2007. (1) Advances in minimally invasive techniques of breast surgery, (2) Locally advanced breast cancer: A multidisciplinary approach.

**Law CHL:** Lakeridge Health Association, Oshawa, ON, June 2008. Gastrointestinal stromal tumour: A multidisciplinary case based discussion.

**Law CHL:** Markham Stouffville Hospital, Division of General Surgery, Markham, ON, June 2008. An update from the Society of Surgical Oncology annual meeting: New frontiers in liver metastases, neuroendocrine tumour and initial results of adjuvant therapy for GIST.

**Law CHL:** Credit Valley Hospital, Mississauga, ON, May 2008. Surgical management of carcinoid tumour of the gastrointestinal tract.

Law CHL: Multidisciplinary Oncology Meeting, Saskatoon, Saskatchewan, March 2008. GIST – A multidisciplinary update.


Law CHL: Train the Trainer: Best Practice in the Management of Colorectal Cancer Patients, Toronto, ON, February 2008. Current management of colorectal metastases to the liver.


Law CHL: Kingston Regional Cancer Centre, Oncology Grand Rounds, Queen’s University, Kingston, ON, December 2007. Neoadjuvant treatment for metastatic colorectal cancer to the liver. Why? When? Where?


Law CHL: Nanjing First Hospital, Nanjing Medical University, Nanjing Cancer Symposium, Nanjing, China, November 2007. (1) Adequate lymphadenectomy in gastric cancer, (2) Cystic and mucinous disorders of the peritoneum, (3) Surgical management of gastrointestinal stromal tumours.


Law CHL: Grand River Regional Hospital, Oncology Grand Rounds, Kitchener, ON, October 2007. Carcinoid tumours of the gastrointestinal tract.


Quan ML: Canadian Association of General Surgeons/Canadian Society of Surgical Oncology, Toronto, ON, September 2007. New technology in the treatment of breast cancer.

Smith AJ: American Society of Colon and Rectal Surgeons, Boston, Massachusetts, June 2008. Improving the quality of care through the use of population data - a comparison of four countries: How we do it in Canada?


Tien HC: Trauma Association of Canada, Whistler, BC, April 2008. Advanced trauma life support - Rest in peace?


Tien HC: International Association for Trauma Surgery and Intensive Care/Trauma Association of Canada (IATSIC/TAC), Main Session, International Surgical Week (ISW), Montreal, PQ, August 2007. Military role in disasters.


Tremblay L: Canadian Association of General Surgeons, Annual Meeting, Halifax, NS, September 2007. What’s new in the ICU?

Wright F: Canadian Society of Surgical Oncology, Toronto, ON, May 2008. Multidisciplinary cancer conferences: Exploring obstacles and facilitators to their establishment and function.

Wright F: Queen’s University, Department of General Surgery, Kingston, ON, May 2008. Surgical issues in locally advanced breast cancer.


Wright F: Ontario Medical Association, Tariff Committee, Toronto, ON, April 2008. Multidisciplinary cancer conferences - should they be billable?

Wright F: Canadian Association of General Surgeons (CAGS), Toronto, ON, September 2007. Applications of new technology in the management of breast disease (Imaging).

Wright F: Cancer Care Ontario, Multidisciplinary Cancer Conferences, Toronto, ON, September 2007. (1) Considerations for the hepatobiliary community of practice, (2) Considerations for the thoracics community of practice.

Research and Investigations


Exploring the cancer-related information needs of general surgeons. Gagliardi A, Smith AJ, Wright FC: Grant Miller Cancer Research Grant. ($20,000 2006 - 2011)


Factors influencing lymph node staging practice in colorectal cancer. Gagliardi A, Wright F, Smith A: Dean's Fund. ($9,797 2006 - 2009)


How does collegial interaction address the oncology information needs of community-based general surgeons? Gagliardi A, Wright FC, Smith AJS: Grant Miller Cancer Research Grant. ($20,000 2006 - 2009)


Mentoring for continuous professional development of surgical skills: Qualitative study to establish performance measures. Gagliardi A, Wright F: Research and Development Grant. ($3,937 2007 - 2008)


Priorities for knowledge translation research in colorectal cancer. Gagliardi A, Wright FC, Smith AJS: *Canadian Institutes of Health Research*. ($15,000 2006 - 2007.)

Priorities for knowledge translation research in colorectal cancer. Gagliardi A, Wright FC, Smith AJS: *National Cancer Institute of Canada*. ($15,000 2006 - 2007.)

Quality of breast cancer sentinel lymph node biopsy practice in Ontario. Quan ML, Gagliardi A, Wright F, McCready D, Urbach D: *Canadian Breast Cancer Foundation*. ($350,000 2007 - 2009.)


The role of thromboelastography in minimizing blood transfusions in trauma patients. Tien H, Rizoli S: *Department of National Defence*. ($185,000 2006 - 2007.)

The role of thromboelastography in trauma. Rizoli S, Tien H, Tremblay L, Reis M: *Defence Research and Development Canada*. ($244,388 2006 - 2008.)


**Honours Received**

Gagliardi AR: Named an Exceptional Reviewer for 2006-07 by Medical Care, which includes the top 5% of all peer reviewers for 2007 who are chosen on the basis of quality, timeliness and number of reviews performed. June 2008.


Smith AJ: Marvin Tile Distinguished Service Award, Department of Surgery, Sunnybrook Health Sciences Centre. December 2007.

DIVISION OF NEUROSURGERY

Dr. M. Fazl – Associate Professor
Dr. D.A. Houlden – Assistant Professor
Dr. F. Pirouzmand – Assistant Professor
Dr. M.L. Schwartz – Professor (Division Head)

Publications


Invited Visits


Honours Received

Houlden DA: Sunnybrook Health Sciences Centre Team Award, Surgical Neuromonitoring Department, Trauma. September 2007.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. T.S. Axelrod – Professor
Dr. H.U. Cameron – Associate Professor
Dr. J.C. Cameron – Assistant Professor
Dr. G.R. Fernie – Professor
Dr. J.A. 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 – Professor (Division Head)
Dr. B. Maki – Professor
Dr. B.W. Malcolm – Assistant Professor
Dr. P.H. Marks – Associate Professor
Dr. J.J. Murnaghan – Associate Professor
Dr. M. Nousiainen – Assistant Professor
Dr. R.R. Richards – Professor
Dr. J. Schatzker – Professor
Dr. D.G.S. Stephen – Associate Professor
Dr. M. Tile – Professor
Dr. V.M.R. Wadey – Assistant Professor
Dr. I. Weller – Assistant Professor
Dr. C. Whyne – Associate Professor
Dr. C.S. Wright – Assistant Professor
Dr. A.J.M. Yee – Associate Professor

Publications


Invited Visits


Axelrod TS: AO Foundation Education, AO Hand and Wrist Course, Davos, Switzerland, December 2007. (1) Panel discussions: (a) Distal radius fractures (Chairman), (b) Scaphoid Fractures (Chairman), (c) Phalangeal fractures, (2) Lectures: (a) Review of principles of internal fixation (Day 1), (b) Scaphoid non-unions, (3) Moderator of case-based 10 discussion small group sessions.


Cameron JC: Canadian Orthopaedic Association, Quebec City, PQ, June 2008. Paper presentations: (1) Rotational osteotomy of the proximal tibia for mal-tracking/dislocation of the patella, (2) External tibial torsion as a cause of lateral compartment osteoarthritis of the knee.


Finkelstein JA: Canadian Orthopaedic Association, Quebec City, PQ, June 2008. Instructional Course Lecture: Management of the spine in the multiple trauma patient - Unique aspects of fixation in combined lumbar-pelvic trauma.


Ford MH: The Dewar Orthopaedic Society, Corner Brook, NFLD, September 2007. Management of high energy burst fractures with kyphoplasty and prodense (preliminary biomechanical results.)


Hall H: University of Alberta, Department of Physiotherapy, Edmonton, AB, April 2008. Assessment of the lumbar spine.


Hall H: Bluewater Emergency Care Conference, Sarnia, ON, October 2007. Dealing with back pain in the ER.


Hall H: University of British Columbia, Vancouver, BC, October 2007. The top ten things you should know about back pain.


Hall H: Dr. Fabian Curry Annual Memorial Clinic Day, Huntsville, ON, September 2007. Understanding back pain.


Kreder HJ: Laval University - Division of Orthopaedic Surgery and the Quebec Orthopaedic Association Meeting, Quebec, PQ, April 2008. Visiting Professor: (1) How not to fix fractures: Staying out of trouble.


Kreder HJ: Association Internationale pour l’Osteosynthese Dynamique Canada, Mississauga, ON, September 2007. (1) Principles and practice of clinical research: How to design, analyze and participate in orthopaedic research, (2) Designing a non-randomized study: What are the types? From case series to prospective cohorts.


Maki BE: Canadian Institutes of Health Research Institute on Aging, National Forum on Mobility in Aging, Ottawa, ON, September 2007. Invited Participant: Mobilizing researchers and stakeholders.


Richards RR: 16th Herbert Stark Visiting Professor, University of California, Los Angeles, California, January 2008. (1) Top ten tips for upper extremity trauma surgery, (2) Open shoulder reconstruction, (3) Reconstruction for irreparable brachial plexus injury, (4) Assessment of the patient with a work related upper extremity disorder.


Wadey VMR: MEDEC Committee, Quebec City, PQ, June 2008. Update on MSKHealth.ca website.

Wadey VMR: Stanford University, Founder’s Day, Department of Orthopaedic Surgery, Stanford, Connecticut, June 2008. Speaker: How necessary are intraoperative AFB and Fungal Cultures?


Wadey VMR: Orthopaedic Research Society and the American Association of Orthopaedic Surgeons, Combined Meeting, Honolulu, Hawaii, October 2007. (1) Functional outcomes observed in patients with total knee arthroplasty (TKA) discharged four days after surgery (a pilot study), (2) Protocols for patients presenting with joint infections (completed - implementation in process at Stanford University and now working with Dr. Andrew Simor to establish protocols for implementation at Sunnybrook and Holland Centre sites), (3) Functional ability of patients discharged 4 days after primary total knee arthroplasty: A pilot study.

Wadey VMR: International Society of Physiotherapists, August 2007. Presenter: So...you think you need a total joint?


Whyne C: Bonus Symposium, MaRS, Toronto, ON, March 2008. Image-based quantification and minimally invasive local treatments for spinal metastases.

Whyne C: Canadian Student Conference on Biomedical Computing, Toronto, ON, March 2008. Medical imaging and computer aided interventions: Musculoskeletal applications.

Yee AJM: Canadian Orthopaedic Association (63rd Annual)/American Orthopaedic Association (121st Annual), Combined Meeting, Quebec City, PQ, June 2008. J.A. Nutter Award Presentation: A novel composite elastin and hyaluronan scaffold for nucleus pulposus tissue engineering.

A biomechanical assessment of floor and overhead lifts using one or two caregivers for patient transfers. *Fernie GR: Workplace Safety and Insurance Board.* ($61,088 2007 - 2009.)


A novel delivery system for BMP 2 to enhance ACL graft integration. *Richards R*, Yee A, Roberston C: *The Physicians’ Services Incorporated Foundation.* ($80,000 2008.)

A prospective randomized trial comparing open reduction and internal fixation, non-spanning external fixation, and closed reduction with percutaneous fixation in displaced distal radius fractures with joint congruity. *Berry G*, Kreder HJ, Canadian Orthopaedic Trauma Society: *Orthopaedic Trauma Association.* ($210,806 2008 - 2009.)


Centre for research in image-guided therapeutics. *Hynynen K*, Multiple collaborators, including Whyne CM: *Research Hospital Fund Large Scale Institutional Endeavours, Canada Foundation for Innovation.* ($14,337,919 2008 - 2011.)

Clinical trial of novel technology to improve hand hygiene (year 1). *Fernie GR: Health Research Grants, Ministry of Health and Long-Term Care.* ($177,165 2008 - 2009.)

Cloud nine. *Fernie GR: Ontario Research Commercialization Program.* ($50,000 2008 - 2009.)

Development and testing of a perturbation-based balance training program to improve balance reactions and prevent falls in older adults. Maki BE, Mansfield A: *Ontario Neurotrauma Foundation*. ($7,000 2007.)


Hand hygiene compliance audit tool. Fernie GR, McGeer A, Muller M: *Mississauga Halton Infection Control Network (Ministry of Health and Long Term Care-Regional Infection Control Networks).* ($43,142 2008 - 2009.)

Health care technology and place - research training program. Coyte PC, McKeever P, Fernie GR, et al: *Canadian Institutes of Health Research*. ($1,980,000 2002 - 2007.)


Intelligent multiple user mounted hand hygiene dispenser. Fernie GR: *Ontario Research Commercialization Program-Technology Transfer Toronto*. ($50,000 2008 - 2009.)


Modeling thin bone structures of the human skeleton. Whyne C: *Natural Sciences and Engineering Research Council*. ($165,000 2006 - 2011.)


Patient transfer and lifting device. Fernie GR: *Ontario Research Commercialization Program*. ($50,000 2007.)

Portable sleep apnea diagnostic device for home use. Bradley TD, Alshaer H, Fernie GR: *Ontario Research Commercialization Program -Technology Transfer Toronto (Ministry of Research and Innovation).* ($10,000 2008.)


Recombinant elastin-like polypeptide based materials for use in artificial spinal disc repair. ($51,400 Elastin Specialties Funding, $50,000 over 2 years). Woodhouse K, Yee AJ, Whyne CM, Ontario Research Development Challenge Fund (ORDCF) through EMK matched by Elastin Specialties through ARTEC: *Advanced Regenerative Tissue Engineering Centre, Emerging Materials Knowledge Project (Ontario Centre for Excellence Project, with ORDCF funding).* ($101,400 2006 - 2008.)
Rehabilitation Engineering Research Center on Universal Design and the Built Environment at Buffalo [Joint initiative between Toronto Rehab and the State University of New York (SUNY) at Buffalo.]

Steinfeld E, Fernie G: National Institute on Disability and Rehabilitation Research. ($5,538,000 2005 - 2009.)

Retrospect comparison of two anesthetic techniques (regional or general anesthesia) in the same patient for hip and knee arthroplasty. McCartney C, Gollish JD, Kummer C, Robinson S, Katz J, Mawani A: Holland Centre Hip and Knee Arthroplasty Research Fund. ($5,000 2007.)

Risk factors and indicators that predict the progression of osteoarthritis after knee injury. Marks PH, Hurtig M, White L, Weller I: Canadian Institutes of Health Research. ($300,000 2004 - 2009.)

Safe activities following elective total hip replacement (SafeT). Weller IM, Corey PN, Gignac MA, Gollish JD, Hawker GA, Kennedy DM, Kreder HJ, MacDonald SJ: Canadian Institutes of Health Research. ($930,000 2007 - 2012.)


Spinous process less invasive extendable fusion: A less invasive extendable device for posterior spinal fusion. Ginsberg H, Whyne CM, Singh D: Ministry of Research and Innovation. ($10,000 2008.)


The impact of photodynamic therapy on the biomechanical stability of the metastatic spine: Characterization independent and combined treatment effects with bisphosphonates and radiation therapy. Whyne CM, Yee A, Wilson, Burch S, Bisland S: Ontario Institute for Cancer Research. ($530,361 2008 - 2011.)

Two versus one caregiver substudy. Fernie GR: Institute for Work and Health (OPLES). ($25,000 2007 - 2008.)

Use of video games to improve processing of visual information needed for balance control: Development and pilot testing of a new approach to falls prevention. Maki BE, McKay S: Ontario Neurotrauma Foundation. ($12,000 2008.)

Visual processing and postural reactions: Development and pilot testing of a visual training program to improve balance control and prevent falls in older adults. Maki BE, McKay S: Ontario Neurotrauma Foundation. ($10,000 2007.)

Honours Received


Whyne C: Gallie-Bateman Award, 2nd Place - University of Toronto, Department of Surgery (Moss I, Gordon L, Woodhouse K, Whyne CM, Yee A). May 2008.


Yee AJM: Sunnybrook Research Institute Merit Pool Award: Albert Yee ($10,000) - for academic achievements 2006/07. June 2008.
DIVISION OF PLASTIC SURGERY
Dr. O. Antonyshyn – Associate Professor
Dr. P. Binhammer – Assistant Professor (Division Head)
Dr. R.C. Cartotto – Associate Professor
Dr. J.A. Fialkov – Assistant Professor
Dr. J.S. Fish – Associate Professor
Dr. M. Gomez – Assistant Professor
Dr. S. Shahrokhi – Lecturer

Publications


**Fish J, Cartotto R, Gomez M, Knighton J, Smith K:** Improved survival following thermal injury in adult patients treated at a regional burn centre. Journal of Burn Care and Rehabilitation: January 2008: 29: pp 130-137.

**Fish J, Davidge K:** Older adults and burns. Geriatrics and Aging: June 2008: 11: pp 270-275.


Invited Visits


**Antonyshyn O:** About Face Conference “Inspiration 2007,” Toronto, ON, October 2007. Shared decision making.

**Cartotto RC:** Canadian Burn Survivors Conference, Toronto, ON, June 2008. An overview of burn care: Applying what we know.

**Cartotto RC:** University of Calgary, Calgary, AB, May 2008. Visitor/Trauma and Critical Care Speaker: (1) Pawn to G4: The chess match of caring for a major burn patient, (2) Current concepts and controversies in the acute management of a major burn injury.


**Cartotto RC:** Shriners Hospital for Children, Inhalation Injury Consensus Conference, Coeur d’Alene, Idaho, November 2007. High frequency oscillatory ventilation after inhalation injury.


Fish JS: Power Workers Union, Toronto, ON, March 2008. Update on electrical injury program.


Fish JS: Sudbury Trauma Society, Sudbury, ON, October 2007. Update on burn trauma for emergency room physicians.

Research and Investigations
Senior Investigator’s Name Appears in Italics


Defining psychological recovery following electrical injury and the longitudinal outcomes. Fish J, Atkins J: Electrical Injury Research Foundation. ($60,000 2007 - 2010.)


Prospective study of imiquimod in the treatment of patients with positive margins following surgical excision of basal cell carcinoma and squamous cell carcinoma. Barnes EA, Assaad D, Antonyshyn O, Barnes EA, Fialkov J, Choo R, Breen D: 3M Pharmaceuticals. ($150,000 2006 - 2009.)

Retrospective review of pain management during electrical injury. Fish J, Li A: Electrical Injury Research Foundation. ($7,000 2007 - 2008.)

Honours Received


Antonyshyn O: Advanced Craniomaxillofacial Forum (Stryker CMF) Educational Grant, $190,000 in support of the Craniofacial Symposium, University of Toronto CME Program. November 2007.

Antonyshyn O: Nominee, Colin Woolf Award for Excellence in Course Coordination for developing the First Annual Craniofacial Symposium, by the Office of Continuing Education and Professional Development (CEPD), Faculty of Medicine, University of Toronto. January 2008.


Fish JS: Dr. Charles Tator Surgeon Scientist Mentoring Award, Department of Surgery, University of Toronto. May 2008.

Gomez M: Best Trauma Coordinators of Canada Presentation Award (Co-Author). April 2008.
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 – Associate Professor
Dr. V. Venkateswaran – Assistant Professor

Publications


Invited Visits


**Herchorn S**: 8th Annual Basic Science Course in Urology for Urology Residents, Toronto, ON, February 2008. Basic voiding dysfunction and urodynamics: What you need to know.


**Herschorn S**: General Hospital Kuala Lumpur, Department of Gynecology, Kuala Lumpur, Malaysia, February, 2008. Review of OAB.

**Herschorn S**: Ipoh General Hospital, Department of Family Practice, Ipoh, Malaysia, February 2008. The x’s and y’s of OAB.

**Herschorn S**: Malaysian Urological Society, Kuala Lumpur, Malaysia, February 2008. The x’s and y’s of OAB: How gender differences affect the presentation, diagnosis and management of LUTS.

**Herschorn S**: Queen’s University, Department of Urology, Kingston, ON, February 2008. Visiting Professor: (1) New developments in the treatment of male overactive bladder, (2) Advances in slings for female stress incontinence, (3) Surgical demonstration and teaching of new sling for male stress incontinence.


**Herschorn S**: Second Changsha Hospital of the Central South University Medical School, Urology Seminar, Changsha, Hunan, China, November 2007. (1) Advances in surgery for female stress incontinence, (2) Management of vesicovaginal fistulas.


**Klotz LH**: Orange County Urological Society, Orange County, California, May 2008. PSA Kinetics in prostate cancer.

**Klotz LH**: University of Manitoba, Division of Urology, Winnipeg, MB, May 2008. Visiting Professor: Active surveillance for favorable risk prostate cancer.


**Klotz LH**: Brazilian Urology Association, Salvador, Brazil, November 2007. Invited Speaker.


Klotz L.H: Massachusetts General Hospital, Radiation Oncology Department, Harvard University, Boston, Massachusetts, November 2007. Visiting Professor.

Klotz L.H: Baylor College of Medicine, Annual Update, Santa Fe, New Mexico, October 2007. Invited Speaker.


Nam RK: Prostate Cancer Research Foundation, United Kingdom and Canada, June 2008. Prostate cancer genetics.

Venkateswaran V: Canadian Prostate Cancer Research Initiative and the Canadian Prostate Cancer Network, Canadian Prostate Cancer Conference, Toronto, ON, September 2007. Micronutrient combination and time of administration influences development of prostate cancer.

Research and Investigations

Senior Investigator’s Name Appears in Italics

12-week, randomized, double-blind, double-dummy, placebo-controlled, parallel-group, multicenter trial to evaluate the efficacy and safety of fesoterodine in comparison to tolterodine ER in patients with overactive bladder. Herschorn S, Carr LK: Pfizer. ($60,000 2007 - 2008.)

A multicenter, double-blind, randomized, placebo-controlled, parallel-group study of the safety and efficacy of a single treatment with two dose levels of botox (Botulinum Toxin Type A) purified neurotoxin complex followed by a treatment with botox in patients with urinary incontinence due to neurogenic detrusor overactivity. Herschorn S, Carr LK: Allergan. ($50,000 2008.)

A placebo-controlled randomized, 12-week, dose-ranging, double-blind study versus placebo using tolterodine as a study calibrator, to evaluate efficacy and safety of SSR240600C in women with overactive bladder including urge urinary incontinence. Herschorn S, Carr LK: Sanofi. ($50,000 2008.)

A randomized, double-blind, parallel group, active controlled, multi-center long-term study to assess the safety and efficacy of the beta-3 agonist YM178 (50 mg qd and 100 mg qd) in subjects with symptoms of overactive bladder (The 178 CL-049 Study.) Herschorn S: Astellas Pharma. ($30,000 2008.)


CORAL study - Fosamax versus placebo in patients initiating therapy with LHRH analogues. Investigator initiated multicentre trial, initiated by L.Klotz, with funds provided to CURC by Abbott Laboratories Canada. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium. ($800,000 2005 - 2008.)

CURC/CUOG Casodex dose intensification study (CHICS). Investigator-initiated study by L Klotz. Funds provided to CURC by Astra Zeneca Canada. Funds include per patient reimbursement ($450,000) and project management costs ($450,000). Klotz L: Canadian Urology Research Consortium. ($900,000 2005 - 2007.)


Dutasteride versus placebo in patients initiating intermittent androgen deprivation. Investigator-initiated multicentre trial, initiated by L Klotz, with funds provided to CURC by Glaxo Smith Kline US. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium. ($800,000 2006 - 2009.)


Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner NE, Haider M, Venkateswaran V: Prostate Cancer Research Foundation of Canada. ($60,000 2007 - 2008.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner NE, Haider M, Venkateswaran V: Abbott Grant Competition, Canadian Urological Association. ($25,000 2007 - 2008.)

Individual risk assessment for prostate cancer using risk factors, tumour markers and new biomarkers. Nam RK, Narod S: Canadian Institutes of Health Research. ($708,000 2006 - 2009.)


Micronutrients and prostate cancer: Prevention to treatment. Vasundara V, Klotz L: Canadian Institutes of Health Research. ($247,413 2006 - 2008.)


SELECT (selenium and vitamin E cancer prevention) trial - Vitamin E and selenium for prevention of prostate cancer: A randomized trial. Coltman C, many co-Investigators with the South Western Oncology Group, including Klotz LH: National Institutes of Health. ($170,000 1999 - 2009.)

A randomized double-blind study to assess the safety and efficacy of solifenacin succinate (vesicare) in comparison to oxybutynin for overactive bladder patients. Herschorn S: Astellas Canada. ($15,000 2007 – 2008.)
Honours Received

**Herschorn S:** 5-Star Rating for Presentations at the Annual Meeting of the Canadian Urological Association in Edmonton, AB: (1) The use of botulinum toxin A in patients with neurogenic detrusor overactivity: Preliminary results from a Canadian multicentre randomized trial, (2) Add-on tolterodine extended release improves overactive bladder symptoms in men receiving alpha-blocker therapy. 2008.

**Herschorn S:** Vice-Chair, Canadian Male Sexual Health Council. 2008.

**Herschorn S:** Vice-President, Canadian Urological Association. 2008.

**Klotz LH:** Naming the Conference Room of the Prostate Cancer Research Foundation of Canada “Dr. Laurence Klotz Room.” June 2008.

**Klotz LH:** President, Canadian Urological Association. June 2008.

**Klotz LH:** Tile Award for Meritorious Service to Sunnybrook. June 2008.

**Kodama RT:** A.W. Bruce Undergraduate Teaching Award, Division of Urology. June 2008.

**Kodama RT:** Bruce Tovee Postgraduate Resident Teaching Award. May 2008.

**Kodama RT:** Peters-Boyd Clinical Teaching/Supervision Award. May 2008.

**Kodama RT:** Postgraduate Resident Teaching Award - Clinical, Division of Urology. June 2008.

**Nam RK:** Faculty Postgraduate Teaching Award, Surgical, Division of Urology, University of Toronto. June 2008.

**Nam RK:** Postgraduate Lecture Award, Division of Urology, University of Toronto. June 2008.

**Nam RK:** Royal College of Physicians and Surgeons of Canada, Medal Award in Surgery. February 2008.
The Department of Surgery has been involved in Safer Health Care Now and Wait Time Strategies initiatives. Computerized Provider Order Entry across the organization has involved surgical input for clinical order sets designed by Division, then integrated with multidisciplinary teams. Peter Weiler has been our clinical lead in this impressive endeavor planned for November 2008. HSMR reviews were presented at the Medical Quality Assurance Committee to understand our processes. Our Ambulatory Care Unit underwent a change in management with separate Medical and Surgical budgets. An external review by Dr. Robert Bear [Calgary Regional Health Center] was undertaken for the Surgical Clinics with recommendations for development of an Ambulatory Care Council with governance and a Physician Lead Laura Tate.

The Surgical Department of the Toronto East General Hospital has 20 active surgeons including 4 urologists, 6 orthopedic surgeons, 5 general surgeons including 3 thoracic surgeons and 3 plastic surgeons.

Critical Care
The Division of Critical Care has grown to include Dr. Mary Anne Aarts, our second surgeon-intensivist, along with Division Head, Dr. Carmine Simone. The Division has implemented a number of initiatives this past year. Most notably, there has been an increased teaching commitment to the Department of Surgery and to the Adult Critical Care Training Program. We now have regular Critical Care Fellows and PGY2 General Surgery Residents rotating through our ICU.

We have a Multidisciplinary Patient Simulator Program employed in resident and fellow teaching and soon we will have ‘in house’ ACLS training. TEGH has a fully operational Critical Care Rapid Response Team and a new Sepsis Alert Initiative, which is being developed in parallel with our Electronic Patient Record.

General Surgery
Minimally Invasive Surgery has continued to be our focus in General Surgery with increasing laparoscopic procedures in hernia repair, bowel resection, cholecystectomy and solid organ surgery. Bob MacKenzie has successfully set up our integrated Time to Treat Breast Referral Clinic, which includes participation from Jamie Cyriac, Tom Gilas and Brett Beber [Plastic Surgery.] TEGH has the 2nd lowest Wait Times for Breast Cancer. Jamie Cyriac continues his role in ASCM teaching. Jamie Cyriac and Paul Bernick had outstanding TES scores this year. Sentinel node biopsy is now available at TEGH with Tom Gilas as our surgical resource.
Orthopedics
Paul Wong was promoted to Assistant Professor this year. Gianni Mastrelli has stepped down as Division Head and Medical Director and is on Modified Active Staff. Peter Weiler is our new Division Head and Medical Director Orthopedics. Bill Kraemer continues as PostGraduate Program Director, Orthopedics. TEGH has the lowest Wait Time statistics for hip replacements in the province and 3rd in the province, 1st in the LHIN for knee replacements. Physician Assistants have been integrated into our Orthopedic Division with continued development of their roles. Advanced Practice Physiotherapists have been trained and are working with a multidisciplinary team.

Plastic Surgery
Marc Dupere is no longer on active staff. There is a recruitment process going on for a new Head for the Division. Dimitri Anastakis conducted an external review this year with a focus on TEGH’s teaching potential, University/community needs and hospital resources. Atul Kesarwani has reduced his clinic and OR time to concentrate on his private clinic opening this year. Brett Beber continues to focus his strengths on breast reconstruction and is on Courtesy Staff at Women’s College Hospital where he participates in Breast Clinic. This year a two-month rotation for PGY 5 residents began for the first time in 24 years. The Division is developing a closer tie with the University and is planning to structure for regular resident assignments in the coming years.

Thoracic Surgery
TEGH has become a Level 1 Thoracic Center. Simon Yu has joined our staff from North York General [NYG] to continue in thoracic cancer surgery here while still maintaining his general surgery practice at NYG. TEGH is covering the thoracic surgery needs of Sunnybrook and North York.

Urology
Dr. Singal is working closely with the Foundation to bring robotic capabilities to TEGH. Postgraduate residents have started rotating through TEGH this year. An annual Fellowship is registered with the University.
DIVISION OF GENERAL SURGERY

Dr. P.E. Bernick – Assistant Professor
Dr. J. Cyriac – Lecturer
Dr. T. Gilas – Assistant Professor
Dr. R.L. Mackenzie – Assistant Professor
Dr. C. Simone – Lecturer
Dr. R. Zeldin – Assistant Professor (Division Head)

Publications


Invited Visits

Bernick PE: Canadian Society of Colon and Rectal Surgeons-Canadian Society for Surgical Oncology (CSCRS-CSSO), Canadian Surgical Forum Toronto 2007, Toronto, ON, September 2007. Postgraduate Course in Colorectal Cancer: The malignant polyp.

Simone C: Lung Cancer Canada and Columbus Centre, Toronto, ON, May 2007. Conoscere il cancro del polmone (per vincarlo): Understanding lung cancer (diagnosis, treatment, survivorship.)

Simone C: Ontario Hospital Association, Exploring a New Era in Critical Care Design, Delivery and Evaluation (Ontario’s Critical Care Strategy – Year One Results), Toronto, ON, April 2007. Leadership and physician engagement in the ICU.

Simone C: Fourth Annual Toronto Radiation Medicine Conference, King City, ON, April 2007. Collaborating to strengthen thoracic oncology services. (with Dr. M. Dahele)


DIVISION OF ORTHOPAEDIC SURGERY

Dr. M. Catre – Lecturer
Dr. W. Kraemer – Assistant Professor
Dr. G. Maistrelli – Associate Professor
Dr. F. Mastrogiacomo – Lecturer
Dr. P. Weiler – Assistant Professor
Dr. P. Wong – Assistant Professor

Publications


Invited Visits


Maistrelli G: Surgical Advances in Revision Total Knee Arthroplasty, Continuing Medical Education Course Symposium, Toronto, ON, October 2007. Presenter: (1) Osteolysis, (b) Two-stage revision for infected total knee, (3) Revision of unicompartmental arthroplasty.


Honours Received


DIVISION OF PLASTIC SURGERY

Dr. B. Beber – Lecturer
Dr. L. Tate – Assistant Professor (Division Head)

DIVISION OF UROLOGY

Dr. R. MacMillan – Assistant Professor
Dr. R. Singal – Lecturer (Division Head)
Dr. P. Vlaovic – Lecturer
Surgical Programs and Critical Care continue to be a dominant program in the administrative structure at the University Health Network, contributing to all other programs in the organization. Budgeted surgical volumes were for the most part realized, and all divisions and departments strived to meet wait times targets mandated by the Ministry of Health. The initial stages of the “GATES” strategic planning process were completed, and a planning document was published and distributed. “Growing Academically, Technologically, Efficiently and Safely” captured the major future initiatives in the department.

UHN Surgery was one of two North American centres to participate in the World Health Organization Checklist Project as part of the World Alliance for Patient Safety, and was a prominent player in the formal kick-off celebration on June 25th in Washington, DC. UHN Surgery also played a major role in the CSSC (Clinical Specialty Supply Chain) initiative in collaboration with the Ministry of Health.

Exciting new clinical and research initiatives involved the GTx (Guided Therapeutics) Program and the I³ Program (Innovation, Intervention, Imaging) both of which benefited from input from surgery, imaging and basic science. The design of the MPOR (multipurpose operating room) was completed in preparation for construction of a multidisciplinary minimally invasive operating room to carry out advanced cardiac and vascular procedures.

Stefan Hofer was recruited as Head of Plastic Surgery and became holder of the Wharton Chair in Plastic and Reconstructive Surgery. Rajiv Gandhi and Christian Veillette joined the Orthopedic Service, Rajiv in the field of arthroplasty surgery and Christian in upper limb surgery with a special interest in medical informatics. Carol-Anne Moulton and Sean Cleary were appointed to the HPB Program in General Surgery at the Toronto General site. Carol-Anne has an academic interest in education while Sean’s focus is in genetics and epidemiology.

Major university posts continue to be held by Shaf Keshavjee as Chair of Thoracic Surgery and Thomas Lindsay as Chair of Vascular Surgery. Richard Weisel completed his second five-year term as Chair of Cardiac Surgery and will go on as the Director of the Toronto General Research Institute. Wayne Johnston was elected President of the Society of Vascular Surgery, and Sid Radomski was appointed as Special Advisor to the Chair on Education. Michael Fehlings was appointed as co-director (along with Albert Yee) of the University of Toronto’s Department of Surgery Spine Program, and Charles Tator completed five years as Director of Alumni Advancement.

In July 2007 Joan Lipa was promoted to Associate Professor; Barry Rubin, Thomas Lindsay, Michael Tymianski and Neil Fleshner to Full Professor. For July 2008, R.J. Cusimano was promoted to Associate Professor.

The members of the department continue to have prodigious output in grant capture, manuscripts published and papers presented. The most recent figures boasted a total of $38 million in research funding, 342 publications, and 303 invited lectures. These metrics compared favourably to the Mayo Clinic.
Surgical Services now has members who hold no fewer than 28 endowed chairs. The most recent chairs to be awarded are the Wyeth/CIHR Clinical Research Chair in Surgical Oncology (Michael Jewett), the Wyeth/CIHR Clinical Research Chair in Transplantation (Shaf Keshavjee), the Crashley Chair in Gynecologic Oncology (Joan Murphy), the Love Chair in Prostate Cancer Prevention (Neil Fleshner) and the Kevin and Sandra Sullivan Chair in Surgical Oncology (Jonathan Irish). The Belinda Stronach Chair in Breast Reconstruction was announced, and it is anticipated that funding will be complete in the coming months prior to a formal search for the inaugural chairholder.

A large number of teaching awards were won by UHN surgeons, including Wightman-Berris Awards to Rod Davey, Thomas Lindsay, Michael Fehlings and Sid Radomski, the Ross Fleming Award to Andrew Pierre, and the highly coveted University of Toronto Aiken’s Award to Chris Wallace. Doug Wooster won the Colin Woolf Award for Long-term Contributions in Continuing Education, and also received the David Fear Fellowship for further study in the field of education. Other major awards were the Order of Spain for meritorious civil service given to Andres Lozano, and the University Health Network Global Impact Award won by alumnus Bernie Langer. The UHN Department of Surgery looks forward to further exciting developments in recruitment in our various specialties and to work on a number of innovative quality initiatives.
DIVISION OF CARDIAC SURGERY

Dr. S.J. Brister – Associate Professor
Dr. R.J. Cusimano – Associate Professor
Dr. T.E. David – University 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


Brister SJ: Canadian Cardiovascular Congress, Workshop, Quebec City, PQ, October 2007. Aspirin resistance - Fact or fiction!


Brister SJ: Zong Shan Hospital, Xiamen University, Henan Province, People’s Republic of China, August 2007. Race, culture and cardiovascular disease.


Cusimano RJ: Wuxi People’s Hospital, Wuxi City, Jiangsu, China, March 2008. (1) Demonstrator - pacemaker and off pump cardiac surgery, (2) Teacher/Lecturer: Heart transplantation, techniques and tricks.


Cusimano RJ: Canadian Cardiovascular Congress, Canadian Cardiovascular Society Poster Session, Quebec City, PQ, October 2007. Moderator.


David TE: Brazilian Society of Cardiovascular Surgery, 35th Annual Congress, Sao Paulo, Brazil, April 2008. (1) Guest Speaker: Surgery of the aorta, (2) Live teleconference: The David procedure.

David TE: Sutter Pacific Heart Centers, Hospital Sponsored, San Francisco, California, April 2008. The McClelland Visiting Professorship in Cardiovascular Medicine: (1) Is aortic valve endocarditis a surgical disease?, (2) Which mitral valve pathology is the most difficult to repair?, (3) Is aortic valve repair ready for “prime time,” (4) The changing face of the patient with valvular heart disease: How the new demographics and technology affect patient management, (5) Current controversies in the spectrum of mitral regurgitation (Bonow RO, David TE.)


David TE: University of Zurich, Zurich, Switzerland, August 2007. Visiting Professor: (1) Surgical demonstration - (a) mitral valve repair, (b) aortic valve repair (two cases); (2) Lecture: Choices of valve for aortic valve replacement.


Li R-K: University of Alberta, Cardiovascular Research Group, Department of Pediatrics, Edmonton, AB, April 2008. Cell transplantation to restore cardiac function: Bench to bedside and back to bench.

Li R-K: Queen’s University, Department of Anatomy and Cell Biology, Anne Croy’s Reproductions Seminar, Kingston, ON, February 2008. Cell therapy for cardiac regeneration and function restoration.


Li R-K: UC Davis Medical Center, Focus Workshop on Biophotonics in Regenerative Medicine, Sacramento, California, November 2007. Invited Speaker: Cardiac regeneration by cell transplantation: Bench to bedside.

Li R-K: Canadian Cardiovascular Congress 2007, Chair, Quebec City, PQ, October 2007. Signal transduction and vascular remodeling.
Rao V: Albert Einstein Medical Center, Success with Heart Failure Symposium, Perspective from the Big Apple, Montefiore-Einstein Heart Center, New York, New York, June 2008. When is LV dysfunction a contraindication to MV repair or replacement?

Rao V: Toronto Adult Congenital Heart Network, Adult Congenital Heart Symposium, Toronto, ON, June 2008. Ventricular assist devices as a bridge to transplant.

Rao V: Toronto Adult Congenital Heart Network, 3rd Annual Canadian Congenital Cardiac Patient Conference, Toronto, ON, May 2008. The failing heart: Road to transplant?

Rao V: McGill University, Division of Cardiovascular Surgery, Transplantation and Mechanical Circulatory Support, 2nd Canadian Residents and Fellows Summit for Heart Failure, Montreal, QC, April 2008. (1) Devices and patient management in a hub and spoke network; second and third generation devices.


Weisel RD: Symposium on Adult Congenital Heart Disease, Toronto, ON, June 2008. Tissue engineering: Creating a new heart.

Weisel RD: Missouri Baptist Medical Center, St. Louis, Missouri, March 2008. Myocardial protection strategies.


Weisel RD: Association of Thoracic and Cardiovascular Surgeons of Asia, Bali, Indonesia, November 2007. (1) Cardiac regeneration by stem cell therapy, (2) Cardiac restoration by tissue engineering, (3) Cell therapy.

Weisel RD: Heart Failure Management Symposium, Riyadh, Saudi Arabia, November 2007. (1) Cardiac regeneration by stem cell therapy, (2) Cardiac restoration by tissue engineering contracts.

Weisel RD: Canadian Cardiovascular Society, Trainee Day, Quebec City, PQ, October 2007. The future of cardiac surgery.


Yau TM: Canadian Cardiovascular Congress, Scientific Sessions, Quebec City, PQ, October 2007. (1) Chair and Moderator: Surgical poster session I, (2) Co-Chaired: Oral abstract session - Stem cells.
Research and Investigations

Senior Investigator’s Name Appears in Italics

A randomized, double-blind, placebo-controlled, multi-center study to evaluate the cardioprotective effects of MC-1 in patients undergoing high-risk coronary artery bypass graft (CABG) surgery. Yau TM: MEND-CABG II. ($200,000 2006 - 2007.)

An angiogenic progenitor cell niche in the uterus: Potential implications for cell therapy. Li R-K: Canadian Institutes of Health Research. ($681,120 2008 – 2013.)

Autologous tissue-engineered grafts for congenital heart surgery. Li R-K: Canadian Institutes of Health Research. ($647,655 2003 – 2008.)


Cardiac regeneration by cell transplantation. Weisel RD, Fazel S: Heart and Stroke Foundation. ($70,717 2007 - 2008.)

Cardiac regeneration: Improving the response to injury. Weisel RD, Fazel S: Heart and Stroke Foundation. ($73,602 2007 - 2008.)


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 Y, 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.)

Inflammation, infection, trauma and repair cluster – Canada Research Chair in Cardiac Regeneration. Li R-K: Canadian Institutes of Health Research. ($1,400,000 2006 – 2014.)

Matrix modulation is required to restore cardiac function after cell therapy. Li RK: Heart and Stroke Foundation of Ontario. ($185,740 2007 – 2009.)


Polyarginine treated vein grafts (PATENT.) Brister SJ, Ralph-Edwards RE, Yau T: Lumen Therapeutics, LLC. ($700,000 2005 - 2008.)

Predictors of massive blood loss in cardiac surgery: Value of intraoperative coagulation testing. Karkouti K, Yau TM: Canadian Institutes of Health Research. ($82,652 2006 - 2008.)

Restoration of cardiac function: Cellular regeneration and matrix reconstruction. Li R-K: Heart and Stroke Foundation of Ontario. ($439,750 2006 - 2011.)

STICH (Surgical Therapy for Ischemic Congestive Heart Failure) Trial. Rao V, Australia, Brazil, Europe, India, New Zealand/Southeast Asia, North America, Southern South America, Duke University, et al: National Institutes of Health. ($40,000 2007 - 2008.)

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

The cardiac regeneration project: Quantitative cell tracking and response for cardiac regenerative approaches (CARE Project.) Li RK, Weisel R, Jaffray D, Neverova I, Sefton M, Wilson B: Canadian Institutes of Health Research. ($2,287,690 2006 – 2012.)

The interplay of recruited stem cells and the matrix after myocardial infarction: Shifting the balance toward repair. Li RK, Fazel S: Canadian Institutes of Health Research. ($738,073 2004 – 2009.)


Transplant vasculopathy: The role of endothelium. Rao V: Canadian Institutes of Health Research. ($50,000 2007 - 2008.)
Honours Received

**Brister SJ**: Honorary Doctorate Degree, Xinxiang Medical College, Xinxiang City, Henan Province, People’s Republic of China. August 2007.

**Cusimano RJ**: Ordine al Merito Award. October 2007.

**David TE**: Distinguished Alumnus Award. October 2007.

**Li R-K**: Vincenzo Panagia Distinguished Award. November 2007.
DIVISION OF GENERAL SURGERY

Dr. M.S. Cattral – Professor  
Dr. S.P. Cleary – Assistant Professor  
Dr. J.M. Escallon – Associate Professor  
Dr. S. Gallinger – Professor  
Dr. R.M. Gorczynski – Professor  
Dr. D. Grant – Professor  
Dr. P.D. Greig – Professor  
Dr. E.D. Kennedy – Assistant Professor  
Dr. W.L. Leong – Assistant Professor  
Dr. D.R. McCready – Professor  
Dr. I. McGilvray – Assistant Professor  
Dr. C. Moulton – Assistant Professor  
Dr. A. Okrainec – Lecturer  
Dr. T.P. Penner – Lecturer  
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.C. Wei – Assistant Professor

Publications


Gorczynski RM, MacRae S: Role of genes in murine major histocompatibility complex (MHC) in the ontogeny of B cells with restricted capacity for cooperation with adherent cells in the production of antibody to thymus dependent (TFD) and thymus independent type II (TI-II) antigens. Journal of Immunology: September 2007: 128: pp 2543-2546.


Invited Visits


Cleary SP: Canadian Institutes of Health Research Team - Institute for Cancer Research and Treatment (CHIR-IRCC), Annual General Meeting, St, John’s, NFLD, June 2008. C-CFR population-based MYH study.

Escallon J: Latin American Federation of Surgical Societies, Annual Meeting, Santiago de Chile, Chile, November 2007. Selection of antibiotic in surgical infection: Guidelines for the implementation of new technology in surgery.


Gorczynski RM: Akdeniz University, 3rd Annual Conference on Aging, Antalya, Turkey, November 2007. (1) Alterations in regulatory T cell number/function in the mucosal immune system is important in regulating immune changes with age, (2) Regulation of immunity during aging. A role for altered TLR signaling?

Gorczynski RM: Clinique La Prairie (CLP) Institute, Montreux, Switzerland, November 2007. Induction of Treg during aging is controlled by altered expression of TLRS and activation of CD200Rs.

Gorczynski RM: International Congress of Nephrology, Antalya, Turkey, November 2007. CD200 as an important regulator of immunity and inflammation.
Grant D: National Taiwan University Hospital, Hepatitis Research Center, Taipei, Taiwan, December 2007. Surgical treatment of hepatocellular cancer.

Grant D: International Intestine Transplant Society/University of California Los Angeles, Santa Monica, California, September 2007. Update of the International Intestinal Transplant Registry.


McCready DR: Canadian Association of General Surgeons, Canadian Surgical Forum, Toronto, ON, September 2007. (1) Applications of new technology in the management of breast disease, (2) Postgraduate course: Role of lymph node dissection in melanoma.

Moulton C: Conjoint Annual Scientific Congress (CASC), Hong Kong, May 2008. (1) Surgical education surgical simulation: You can learn a lot from a dummy, (2) Plenary session: Credentialling the surgeon for new technologies: An optional or essential process, (3) Keynote lecture: Slowing down when you should: An approach to surgical judgment, (4) Research in surgical education, (5) Surgical trainee’s experience in Hong Kong, (6) The myth of self assessment.


Moulton C: University of Ottawa, Staff Surgical Rounds, Ottawa, ON, April 2008. Slowing down when you should: A new model of expert judgment.


Okrainec A: Canadian Association of General Surgeons-Canadian Society of Colon and Rectal Surgeons (CAGS-CSCRS), Canadian Surgical Forum, Toronto, ON, September 2007. Minimally Invasive Surgery Postgraduate Course: (1) Laparoscopic appendectomy: Tips and tricks, (2) Endomechanical devices in minimally invasive surgery


Reznick RK: Danish Surgical Society, 100th Anniversary, Copenhagen, Denmark, June 2008. Keynote Speaker: How do we learn to operate?

Reznick RK: Methodist Hospital/Cornell University, Department of Surgery Grand Rounds, Houston, Texas, May 2008. A new model of training - Can we afford to wait?

Reznick RK: Royal Australasian College of Surgeons, International Conference on Surgical Education and Training, Melbourne, Australia, March 2008. (1) Skills and attributes of tomorrow’s surgeons: What are we looking for?, (2) What is the role of simulation?


Reznick RK: Memorial Sloan Kettering Cancer Center, New York, New York, December 2007. Do focused specialists need generalist training?

Reznick RK: Albert Einstein College of Medicine, Department of Obstetrics and Gynecology, Women’s Health Fall Symposium ‘Autumn in New York,’ New York, New York, November 2007. Turning it upside down.

Reznick RK: Cervical Spine Research Society, Annual Meeting, San Francisco, California, November 2007. Presidential Address: 80, 70, 60, 50 - Fine tuning our educational model or radical change?

Reznick RK: University of Pittsburg, Grand Rounds, Pittsburgh, Pennsylvania, October 2007. 80, 70, 60, 50 - Fine tuning our educational model (or radical change?)


Rotstein LE: First University of Zhengzhou, Zhengzhou, China, November 2007. Invited Speaker: Advances in the management of differentiated thyroid cancer.

Rotstein LE: Sinchuan University, Chengdu, China, November 2007. Invited Speaker: (1) Advances in the management of differentiated thyroid cancer, (2) Minimally invasive parathyroidectomy, (3) Evolution not revolution.

Rotstein LE: Xinxian Medical College First Affiliated Hospital, Weihui, China, November 2007. Invited Speaker: Management of thyroid cancer.


Taylor BR: Association for Surgical Education, Faculty Development Workshop, Toronto, ON, April 2008. Leading the change for surgery in medical education: Strategies for getting what you need and defending what you have – the rules of the game.


Taylor BR: Ontario Hospital Association, Operating Room Supply Chain Conference, Toronto, ON, October 2007. Clinical specialty supply chain solution. What’s in it for me?


Urbach DR: Canadian Institute of Underwriters, 30th Annual Education Seminar, Toronto, ON, January 2008. Gastric ulcers, Barrett’s esophagus and their cancer risk.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Altered immune function with aging. Goreczynski RM, Terzioglu E: Turkish Science Foundation. ($300,000 2006 - 2008.)


Breast cancer clinical research program. Vallis K, McCready DR: University Health Network. ($800,000 2005 - 2009.)


Cancer Risk Evaluation (CaRE) program. Zanke B, Gallinger S, Hudson T, Kustra R: National Cancer Institute of Canada, Program Project. ($300,000 2007 - 2010.)


CIHR team in interdisciplinary research on colorectal cancer. McLaughlin L, Gallinger S, and 25 others: Canadian Institutes of Health Research. ($3,627,210 2006 - 2011.)


Clinical research in breast cancer. McCready DR: Princess Margaret Hospital Foundation. ($150,000 2007.)


Combined surgical resection of intra-and-extra hepatic metastases from colorectal cancer: Effect on patient outcomes and correlation with stem cell markers. Wei AC, Gallinger S, Dick J: Connaught New Staff Matching Grant. ($15,000 2008 - 2010.)


Development of a surgical oncology atlas. Urbach DR: Cancer Care Ontario. ($189,276 2006 - 2007.)


Evaluating the quality of sentinel lymph node biopsy practice in Ontario. Quan ML, Gagliardi AR, Wright FC, McCready DR, Urbach DR: Canadian Breast Cancer Foundation. ($284,745 2007 - 2009.)

Fellowship in surgical oncology. McCready DR: Alfred Hertz Endowment. ($1,000,000 2007.)


Mechanism(s) for immunoregulation induced in aging by interactions of LPS and hemoglobin. Gorczynski R: CLP Research. ($300,000 2005 - 2009.)


Pancreatic cancer linkage consortium. Petersen GM, Gallinger S, and 27 others: National Institutes of Health. ($7,000,000 2002 - 2008.)


Randomized clinical trials for breast cancer. McCready DR: National Surgical Adjuvant Breast and Bowel Project. ($120,000 2007.)


Role of fg12 in transplantation and cardiac development. Grant D, Levy G: Heart and Stroke Foundation of Canada. ($227,750 2005 - 2008.)

Role of immediate dendritic cell precursors in immunity and tolerance. Cattral MS: Canadian Institutes of Health Research/Astellas. ($850,000 2005 - 2010.)

Social, prognostic, and therapeutic factors associated with breast cancer survival in Canada and the US: Health care access and effectiveness in diverse urban and rural areas, 1985-2010. Govey KM, McCready DR, Holowaty E: Canadian Institutes of Health Research. ($374,000 2004 - 2009.)

The assessment of risk for colorectal tumors in Canada (ARCTIC) genome project. Zanke B, Hudson T, Gallinger S, Cotterchio M, Lemmens T: Genome Canada. ($9,600,000 2004 - 2007.)

The association of cigarette smoking and genetic polymorphisms in carcinogen metabolizing enzymes with pancreatic cancer risk. Cleary SP: Grant Miller Research Grant: University of Toronto. ($20,000 2008.)


Therapeutic notch inhibition in breast cancer; toward identifying a predictive test and a mode of action. Reedijk M: Canadian Breast Cancer Foundation. ($198,836 2008 - 2010.)


Honours Received


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. A.R. Hudson – Professor
Dr. W.D. Hutchison – Associate Professor
Dr. K.M. Johnston – Assistant Professor
Dr. S. Karimi-Abdolrezaei – Assistant Professor
Dr. A.M. Lozano – Professor
Dr. E.M. Massicotte – Assistant Professor
Dr. J.A. Saint-Cyr – Professor
Dr. C. Tator – Professor
Dr. M. Tymianski – Professor
Dr. T. Valiante – Assistant Professor
Dr. A.A. Velumian – Assistant Professor
Dr. M.C. Wallace – Professor (Division Head)

Publications


Invited Visits


Davis KD: Organization for Computational Neuroscience, 16th Annual International Meeting, Toronto, ON, July 2007. What can brain imaging add to neuronal and network representations of pain and attention?

Fehlings MG: AOSpine North America, Coronado, San Diego, California, June 2008. (1) Setting the standard in research: Summary of activities and challenges for SCICOM (Scientific Committee), (2) Wrap up/Summit evaluation/Take away message.


Fehlings MG: The Multidisciplinary Team in Locomotor Rehabilitation, Montreal, PQ, June 2008. (1) Co-organizer of meeting on Spinal Cord Function, Repair and Rehabilitation After Injury, (2) Repair and regeneration of the acutely injured spinal cord: Opportunities for clinical translation of basic discoveries.


Fehlings MG: Canadian Association for Neuroscience, Montreal, PQ, May 2008. (1) Chair - Therapeutic approaches for spinal cord injury: From neuroprotection to neural repair, (2) Lecture - Translational opportunities in SCI with an update on current clinical trials.

Fehlings MG: Christopher and Dana Reeve Foundation, Spinal Cord Symposium, Atlanta, Georgia, May 2008. Keynote address - A special overview of spinal cord injury: Including a unique perspective on potentially viable therapies either in clinical trials or on their way to trials.


Fehlings MG: AO North America, Baltimore, MD, April 2008. STASCIS and its importance in contemporary cervical spinal cord injury management participants cases.


Fehlings MG: ONE Spine, Cancun, Mexico, February 2008. (1) Optimal treatment in immediate posterior reduction and instrumentation, (2) The optimal management involving immediate decompression and reconstruction, (3) Best treatment options - Minimally invasive TLIF preferred over open TLIF.


Fehlings MG: Spine Trauma Study Group, Denver, Colorado, January 2008. What is the optimal timing of surgical intervention in the setting of acute SCI?


Fehlings MG: AO Spine North America, Davos, Switzerland, December 2007. Invited Faculty: (1) Trauma and Tumor Course: Where are we in research on SCI (spinal cord injury)?, (2) Cervical Spine Course: General principles on cervical trauma, polytrauma patients management - role of the spine surgeon, (3) Trauma and Tumor Course: Technical aspects for resection in the occipitocervical and cervical spine, (4) The voices of the masters, where are we in research on spinal cord injury?, (5) Thoracolumbar Spine Course: Treatment options, (6) The voices of the masters, current research on spinal cord injury.


Fehlings MG: AO Spine Asia Pacific and AO Spine North America, Hong Kong, October 2007. (1) Faculty, (2) How I manage cervical myelopathy.


Fehlings MG: Congress of Neurological Surgeons, San Diego, California, September 2007. (1) Special course II - Future advances: Stem cell therapy, regeneration, and robotics, (2) Spine trauma and spinal cord injury: Advances in medical and surgical management.


Fehlings MG: University of Melbourne, Department of Surgery, Melbourne, Australia, July 2007. Repair and regeneration of the injured spinal cord with a focus on neural stem cell based remyelination strategies.


Gentili F: University of Trier, Guest, 6th Hands-on Workshop: Endoscopic Transnasal Approaches to the Skull Base, Trier, Germany, May 2008. (1) Faculty cadaver dissection, (2) Moderator of a live surgery, (3) Presentation: Extended endoscopic approaches to the skull base.


Gentili F: All Institute of Medical Sciences and Skull Base Surgery Society of India, New Delhi, India, December 2007. Live satellite transmission of endoscopic pituitary surgery.


Guha A: Mount Sinai School of Medicine, Department of Oncological Sciences, Grand Rounds, New York, New York, May 2008. Transgenic glioma models as gene discovery tools.


Guha A: Dartmouth University, 3rd Annual Fall Conference on Neurooncology and Supportive Care, Providence, Rhode Island, October 2007. (1) Molecular biology of gliomas: Bench to bedside.


Guha A: Children Tumor Foundation (sponsored by National Cancer Institute), Quebec City, PQ, October 2007. Neurological diseases of childhood: Summary of proceedings.


Guha A: Congress of Neurological Surgeons, Utah, September 2007. (1) GATA-6 is an astrocytoma tumor suppressor gene identified by gene trapping of genetically engineered mouse glioma astrocytes, (2) Genetic alterations in the initiation and progression of NF1 deficient Schwann Cells in Peripheral Nerve Sheath Tumors (PNST), (3) Characterization of GATA4 in the human and mouse CNS and its role as a candidate tumor suppressor in gliomas, (4) Differential role of Neuropilin1 in regulating angiogenesis vs. invasion in the center vs. periphery of human glioblastoma multiforme (GBM), (5) FDG-PET/CT in the differentiation of benign from malignant peripheral nerve sheath tumors in patients with neurofibromatosis 1.


Johnston K: Hockey Canada, Dr. Tom Pashby Sport Safety Fund, ThinkFirst Foundation of Canada, Ottawa, ON, November 2007. The concussion road show.

Johnston K: Toronto Rehabilitation Institute, Toronto, ON, November 2007. The concussion road show.

Lozano AM: Bellaria Hospital, Department of Surgery, Neuromodulation Conference, Como, Italy, June 2008. Invited Speaker: New trends in neurostimulation: Where does the pipeline go?


Lozano AM: The Rockefeller University, Paul Greengard Laboratory of Molecular and Cellular Neuroscience, New York, New York, May 2008. Stimulating the neural substrates of depression in mice and man.

Lozano AM: University of Kiel, Neuroscience Symposium, Kiel, Germany, April 2008. Speaker: Should we use neurosurgery to modulate mood and cognition?


Lozano AM: Queen’s University, Centre for Neuroscience Studies Seminar Series and Maitland Baldwin Memorial Lecture, Kingston, ON, February 2008. Speaker: (1) Adjusting the activity of brain circuits to improve neurological function. (2) Treating depression with deep brain stimulation.

Lozano AM: University of Florida, McKnight Brain Institute, Department of Neurological Surgery, Gainsville, Florida, February 2008. Visiting Professor: (1) Adjusting the activity of brain circuits to improve neurological function, (2) Treating depression with deep brain stimulation.

Lozano AM: Mount Sinai Hospital, Neurology Grand Rounds, New York, New York, January 2008. Traveling through the brain adjusting the activity of various circuits.


Lozano AM: World Federation of Neurology, XVIth WFN World Congress on Parkinson’s Disease, Amsterdam, The Netherlands, December 2007. (1) Co-Chairman, Session on Neurosurgical Interventions (DBS, cell transplantation and gene therapy), (2) Surgical strategies in parkinsonism.


Lozano AM: Institute of Electrical and Electronic Engineers (IEEE) Biomedical Circuits and Systems Conference, Montreal, PQ, November 2007. Fine tuning the circuits of the brain to improve function.

Lozano AM: Vanderbilt University Children’s Hospital, Cully Cobb Lecture, Nashville, Tennessee, October 2007. DBS in psychiatric disease.

Lozano AM: Parkinson’s Disease Foundation, 50th Anniversary, Frontiers of Science and Clinical Advances in Quality of Life in Parkinson’s Disease, New York, New York, October 2007. Basal ganglia - Physiology and DBS.

Lozano AM: 16th Symposium on the Treatment of Parkinson’s Disease, Tokyo, Japan, September 2007. Invited Speaker: What can we learn from DBS and pathophysiology of gait disorders.


Massicotte EM: Congress of Neurological Surgeons, San Diego, California, September 2007. Adult and pediatric spinal trauma surgery.


Research and Investigations

Abnormal involuntary movements (AIMs) and synaptic plasticity in human basal ganglia. Hutchison WD, Eliasmith C, Dostrovsky JO, Lozano AM, Hodaie M: Michael J. Fox Foundation for Parkinson’s Research. ($534,110 2006 - 2009.)


Attenuated NMDA receptor development in MeCP2-deficient mice: Relevance to Rett syndrome. Eubanks JH, Zhang L, Brotchie JM: Canadian Institutes of Health Research. ($610,225 2006 - 2011.)


Childhood Tumor Foundation: Validation of rapamycin as an effective therapy for human NF1-associated MPNST. Guha A: Malignant Peripheral Nerve Sheath Tumor. ($26,443 2007.)


Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulators, using a pilocarpine seizure model. Hodaie M, Lozano A: Dean’s Fund New Staff Grant. ($9,800 2005 - 2010.)

Examination of the key imaging and clinical determinants of outcome after traumatic spinal cord injury (R003-07). Fehlings MG: Rick Hansen Man in Motion Foundation. ($132,796 2007 - 2008.)


GATA4 and GATA6 as prognostic indicators of glioblastoma multiforme patients. *Guha A*; *Radiation Therapy Oncology*. ($15,000 2008 - 2009.)


Microenvironment induced molecular heterogeneity in glioblastoma multiforme (GBM). *Guha A*: *Canadian Institutes of Health Research*. ($125,000 2007 - 2012.)


Neural stem progenitor cells for remyelination and recovery in MS. *Tator CH*: *Multiple Sclerosis Society of Canada*. ($93,702 2008 – 2010.)


Neuroprotection: Preventing cell death and neuronal damage from stroke. *Tymianski M*: *Canadian Stroke Networks*. ($71,430 2006 - 2008.)

New emerging team in spinal cord injury research. *Fehlings MG*: *Krembil Foundation*. ($1,500,000 2006 - 2011.)


Pathological oscillations in basal ganglia and synaptic plasticity. *Hutchison W*, Lozano AM, Hodaie M, Dostrovsky J: *Parkinson Society Canada*. ($42,000 2006 - 2008.)


Protein expression profile of NF1 deficient Schwann cells (using mass spec based proteomics on LCM isolated schwann cells from varying types of peripheral nerve tumors in NF1 patients). *Guha A*: *US Army, Department of Defense Concept Award*. ($68,000 2007 - 2008.)

Protein nitration in traumatic and ischemic brain damage. *Tymianski M*: *Canadian Institutes of Health Research*. ($668,710 2006 - 2011.)


Regenerative approach to intervertebral disc research. *Fehlings MG*: *Synthes Spine Company*. ($210,000 2008 - 2009.)

Regional variation in inhibitors of apoptosis (IAPs) in GBMs and their role in apoptosis and therapeutic resistance. Guha A: National Brain Tumor Foundation. ($52,886 2007 - 2008.)

Regional variations in IAPs in GBMs (laser capture microdissection of center and periphery of human GBM samples and quantification of IAPs. Guha A: National Institutes of Health. ($339,711 2008 - 2009.)


Role of TRP channels in ischemic brain damage. Tymianski M: Canadian Institutes of Health Research. ($3,000,000 2004 - 2009.)

Role of TRPM channels in ischemic brain damage. Tymianski M: Canadian Institutes of Health Research. ($100,000 2005 - 2008.)

Role of TRPM channels in ischemic brain damage. Tymianski M: Canadian Institutes of Health Research, Five-Year MOP-89720. ($180,000 2008 – 2013.)

SCI-TRN acute care and treatment practice network grant. Fehlings MG: Rick Hansen Foundation. ($621,511 2007 - 2008.)


The ischemic axon: Cross-talk with myelin in K+ channel terms. Fehlings MG, Velumian AA: Heart and Stroke Foundation of Canada. ($158,178 2006 - 2008.)

The living myelin sheath: Functional organization and role in dynamic modulation of axonal function in CNS. Velumian AA, Fehlings MG: Natural Sciences and Engineering Research Council of Canada. ($125,000 2008 - 2013.)

The oscillation model of the basal ganglia. Chen R, Moro E, Lang A, Lozano AM: Michael J. Fox Foundation for Parkinson’s disease. ($548,427 2006 - 2009.)


The role of somatosensory activity on cortical plasticity and functional motor outcomes following upper extremity peripheral nerve lesions. Davis KD, Anastakis D: The Physicians’ Services Incorporated Foundation. ($142,500 2007 - 2009.)

The role of TRP channels in the cellular mechanism of stroke and aging. Tymianski M, MacDonald J: Canadian Institutes of Health Research. ($750,000 2004 - 2009.)

Tissue factor in tumor progression, angiogenesis. Guha A, Rak J: Grant No. 018173, National Cancer Institute of Canada. ($117,000 2007 - 2010.)
Towards the correction of rett phenotype by exogenous gene delivery. *Eubanks JH, Burnham WM, Snead OC: Canadian Institutes of Health Research.* ($585,685  2004 - 2009.)

Transforming neuropathic pain research in Canada. *Salter MW, Davis KD, De Koninck Y, Mogil J, Zhuo M, Kapur S: Brain Repair Program, Neuroscience Canada.* ($1,750,000  2004 - 2008.)


Transplantation of neural stem cells and tissue engineering approaches to repair chronic, severe spinal cord injury. *Fehlings MG, Hawryluk G: Craig H. Neilson Foundation.* ($132,000  2007 - 2008.)

Transplantation of spinal cord derived adult neural stem progenitor cells for axonal regeneration and myelination of the injured spinal cord. *Tator CH: International Institute for Research in Paraplegia [IRP].* ($105,000  2007- 2009.)

Treatment of stroke with peptide and small molecule inhibitors of NMDA receptor-PSD95 interaction. *Tymianski M: Canadian Stroke Networks.* ($329,000  2006 - 2008.)

Validation of rapamycin as an effective therapy for human NF1-associated MPNST (examining the in-vivo effects of blocking mTOR pathway in human MPNST explant models). *Guha A: Childhood Tumor Foundation, USA.* ($25,000  2007.)


**Honours Received**

**Fehlings MG:** Award for Individual Teaching Excellence, 2007-08, The Wightman-Berris Academy, University of Toronto.  May 2008.

**Fehlings MG:** 2nd Best Poster at the 2008 Annual Meeting of the American Spinal Injury Association (ASIA) to Dr. Furlan (Fehlings MG, co-author).  June 2008.

**Fehlings MG:** 2nd Place, the Clinical Research Award from the Cervical Spine Society for “The impact of age at the timing of injury on the mortality and neurological outcome after acute traumatic spinal cord injury: Examination of the NASCIS database.  November 2007.

**Fehlings MG:** 1st place (with Dr. W.R. Yu), the Basic Science Research Award from the Cervical Spine Research Society for Development of a novel strategy, based on inhibition of Fas signaling, to reduce cell death and promote functional recovery in a mouse model of cervical spondylotic myelopathy.  November 2007.

**Fehlings MG:** 1st Place Research Award at the 15th Interurban Spinal Cord Injury Conference for an abstract “Mortality and neurological outcome in the geriatric population following spinal cord injury: A retrospective cohort study of 485 patients.”  October 2007.

**Lozano AM:** Designated a “highly cited” scientific author by Thompson Scientific Essential Science Indicators 2007 (Lozano ranks 5th worldwide among 23,117 authors across the field of Parkinson’s disease for a 10-year period ending December 2006).  July 2007.

**Lozano AM:** Meacham Society Lecture, Vanderbilt University.  July 2007.

**Lozano AM:** Order of Spain for contributions to Parkinson’s disease and depression research, Spanish Embassy, Ottawa.  November 2007.

**Tator C:** Arbor Award for Outstanding Voluntary Service to the University of Toronto.  2007.

**Tator C:** ThinkFirst Charles Tator Annual Lecture on Brain and Spinal Cord Injury Prevention.  2007.

**Tator C:** Penfield Lecturer.  2008.

**Valiante T:** Epilepsy Toronto HOPE (Helping Out People With Epilepsy) Award for making an outstanding contribution to the epilepsy community.  May 2008.

**Wallace MC:** Aikins Award for Undergraduate Teaching, Department of Surgery, University of Toronto.  May 2008.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. J.R. Davey – Associate Professor (Division Head)
Dr. W.M. Erwin – Assistant Professor
Dr. R. Gandhi – Lecturer
Dr. B.A. Graham – Assistant Professor
Dr. J. Lau – Assistant Professor
Dr. S.J. Lewis – Assistant Professor
Dr. N.N. Mahomed – Associate Professor
Dr. K.W. Marshall – Assistant Professor
Dr. D.J. Ogilvie-Harris – Associate Professor
Dr. Y.R. Rampersaud – Assistant Professor
Dr. K.A. Syed – Lecturer
Dr. C.J.H. Veillette – Assistant Professor
Dr. H.P. von Schroeder – Associate Professor

Publications


Invited Visits


Lau J: Dewar Orthopaedic Society, Corner Brook, NF, September 2007. Hallux rigidus: Fusion or replacement?


Rampersaud YR: University of Alberta, Department of Radiology and Diagnostic Imaging, Expert Panel Meeting, Toronto, ON, September 2007. The appropriateness of MRI study.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Alternative role of physiotherapists in improving access to total joint replacement. Badley E, Mahomed N, Davis A, Mackay C: Canadian Institutes of Health and Research. ($98,250 2007 - 2008.)

An epidemiological investigation of the risk of lumbar disc herniation and cauda equina syndrome following chiropractic care. Cote P, Cassidy D, Boyle E, Rampersaud Y: Canadian Chiropractic Association. ($400,000 2008 - 2010.)

Apoptosis and molecular signaling in intervertebral disc notochordal cells cultured under hypoxic conditions. Erwin WM, Fehlings MG: AOspine North America. ($30,000 2008 - 2009.)


Investigation of DRS-induced recovery of IL-1-induced degeneration of IVD NP cells. Erwin WM: Skoll Foundation. ($53,000 2007 - 2008.)


Measuring and understanding gender equity in access to care. Brown AD, Mahomed N: Canadian Institutes of Health Research. ($103,254 2006 - 2009.)


Regenerative medicine applications to the IVD. Erwin WM, Fehlings MG, Robert Inman: Synthes Corporation. ($210,000 2008 - 2010.)

Surgical treatment of focal spinal stenosis compared to hip and knee replacement. Rampersaud R: Canadian Spine Society. ($60,000 2007 - 2009.)


Honours Received


Lau J: Roger A. Mann Research Award, American Orthopaedic Foot and Ankle Society. 2007.


Mahomed NN: The Spine Journal Outstanding Paper Award in Surgical Science from the North American Spine Society 2007 for “Assessment of health related quality of life following surgical treatment of focal symptomatic spinal stenosis compared to osteoarthritis of the hip or knee.”

Rampersaud YR: 2007 Arbor Award for Outstanding Volunteer Service at the University of Toronto. September 2007.


DIVISION OF PLASTIC SURGERY

Dr. D.J. Anastakis – Associate Professor  
Dr. T.A. Bell – Lecturer  
Dr. P. Bray – Assistant Professor  
Dr. L.T. Dvali – Assistant Professor  
Dr. B. Graham – Assistant Professor  
Dr. S.O.P. Hofer – Associate Professor (Division Head)  
Dr. J.A. Lipa – Associate Professor  
Dr. R.T. Manktelow – Professor  
Dr. H.P. Von Schroeder – Associate Professor

Publications


Invited Visits

Anastakis DJ: King Faisal Specialist Hospital, Riyadh, Kingdom of Saudi Arabia, December 2007. Visiting Professor/Lecturer: (1) Chronic neurogenic pain following peripheral nerve injury, (2) Cortical plasticity following upper extremity reconstruction.


Hofer SOP: First Annual QMP Reconstructive Surgery Symposium, St. Louis, Missouri, September 2007. (1) Breast reconstruction with the transverse myocutaneous gracilis flap, (2) Indications for microsurgical reconstruction in the face, (3) Tailor-made flaps for reconstructive challenges.

Research and Investigations


Development of an injury severity score for hand trauma. Dvali LT, Graham B: Physicians’ Services Incorporated. ($33,000 2007 - 2009.)


Mental imagery proficiency as a predictive marker of surgical skill in medical students. Okhowat A, Brydges R, Anastakis DJ, Reznick RK, Dubrowski A: Undergraduate Medical Education, University of Toronto. ($7,500 2007 - 2008.)


The role of somatosensory activity on cortical plasticity and functional motor outcomes following upper extremity peripheral nerve lesions. Anastakis DJ, Davis KD: The Physicians’ Services Incorporated Foundation. ($142,500 2007 - 2009.)


Honours Received
Anastakis DJ: 2008 CAME (Canadian Association for Medical Education) Certificate of Merit Award. March 2008.
DIVISION OF THORACIC SURGERY

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

Publications


Invited Visits


de Perrot M: The Moncton Hospital, Pulmonary Hypertension Rounds, Teleconference, Moncton, NB, February 2008. Surgical and non-surgical advances in the treatment of chronic thrombo-embolic pulmonary hypertension and associated PAH.

de Perrot M: Dalhousie University, Pulmonary Hypertension Rounds, Halifax, NS, January 2008. Surgical and non-surgical advances in the treatment of chronic thrombo-embolic pulmonary hypertension and associated PAH.


Keshavjee S: Canadian Society of Transplantation, Mont Tremblant, PQ, February 2008. Enhancing the precision of extended donor selection and utilization.


Research and Investigations

Senior Investigator’s Name Appears in Italics


Cell replacement therapy for cystic fibrosis. Waddell TK: Canadian Cystic Fibrosis Foundation. ($189,716 2007 - 2010.)

CF transplant center grant. Keshavjee S, Singer L: Canadian Cystic Fibrosis Foundation. ($60,241 2008.)

Development of a novel therapeutic strategy with Pemetrexed and regulatory T cell depletion for malignant pleural mesothelioma: A translational research project. de Perrot M: Mesothelioma Applied Research Foundation. ($100,000 2008 - 2009.)

Ex-vivo gene repair of injured donor lungs for transplantation. Keshavjee S: Wyeth Pharmaceuticals/Canadian Institutes of Health Research, Rx and D Clinical Research Chairs: Transplantation. ($1,100,000 2008 - 2013.)

GABAergic regulations of airway epithelium in asthma. Lu WY, Inman M, Liu MY: Canadian Institutes of Health Research. ($675,414 2007 - 2012.)

High risk seed grant - regenerative medicine: The role of marrow stromal cells in prevention of chronic lung allograft rejection.  
_Waddell TK: Canadian Institutes of Health Research._ ($150,000  2005 - 2007.)

Repair of damaged lungs for transplantation using an ex-vivo gene therapeutic strategy. _Keshavjee S: Center for Gene Therapy of Cystic Fibrosis and Other Genetic Diseases, University of Iowa/National Institutes of Health Pilot Grant._ ($34,560  2006 - 2008.)

Signal cross-talk in acute lung injury. _Liu MY: Canadian Institutes of Health Research._ ($659,750  2003 - 2008.)


The role of galectin-3 in xenograft rejection. _Waddell TK: Heart and Stroke Foundation of Ontario._ ($275,934  2007 - 2010.)


**Honours Received**

_Keshavjee S:_ Andrew Lazarovits Lecturer, Canadian Society of Transplantation. February 2008.

_Keshavjee S:_ Lister Prize in Surgery, Department of Surgery, University of Toronto. April 2008.

_Pierre AF:_ Gail E. Darling Award for Excellence in Undergraduate Teaching 2007-08, Division of Thoracic Surgery, University of Toronto. June 2008.

_Pierre AF:_ Robert J. Ginsberg Award for Excellence in Postgraduate Teaching 2007-08, Division of Thoracic Surgery, University of Toronto. June 2008.

_Pierre AF:_ Ross Fleming Surgical Educator Award 2007-08, Department of Surgery/Surgical Services, University Health Network. June 2008.
DIVISION OF UROLOGY

Dr. A. Finelli – Assistant Professor
Dr. N.E. Fleshner – 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


Invited Visits

Finelli A: Kidney Cancer Canada, Toronto, ON, March 2008. Imaging tests for staging and surveillance of RCC.


Fleshner NE: Prostate Cancer Research Foundation, Toronto, ON, June 2008. Anterior prostate tumors: How to avoid missing them.


Fleshner NE: University of Kansas Medical Centre, Kansas, Missouri, March 2008. (1) Starting an academic career, (2) The role of diet in the prevention of prostate cancer.

Hassouna MM: University of Laval, Quebec, PQ, March 2008. Visiting Professor: Advances in pelvic neuromodulation for voiding dysfunction.


Hassouna MM: International Neuromodulation Society (INS), 8th World Congress, Acapulco, Mexico, December 2007. (1) Chair of Session: Neuromodulation in visceral pain, (2) Pelvic neuromodulation in voiding dysfunction: What we have learned in the last 20 years, (3) Urological disorders and pelvic neuromodulation.

Jewett MAS: Laval University, Division of Urology, Quebec City, PQ, June 2008. Visiting Professor: Management of testis cancer stage by stage.
Jewett MAS: European Society of Medical Oncology, Testicular Cancer Symposium, Munich, Germany, May 2008. (1) Is there still a need for primary surgical staging and treatment in clinical stage I non-seminoma?, (2) Primary chemotherapy in stage II a/b non-seminoma.

Jewett MAS: Us Too!, Brampton, ON, April 2008. What does the future hold for prostate cancer treatment?


Jewett MAS: University of Berne, Department of Urology, Berne, Switzerland, February 2008. Visiting Professor: The role of needle biopsy in the management of small renal masses.


Jewett MAS: 25th World Congress of Endourology and Shockwave Lithotripsy (SWL), Cancun, Mexico, October 2007. Invited Faculty: (1) Debate: One year later, update on radical cystectomy, (2) Incidental renal masses: Watchful waiting, in whom?


Jewett MAS: Blue Ribbon Prostate Cancer Patient Forum, St. Catharines, ON, September 2007. What does the future hold for prostate cancer treatment?


Matthew AG: Simcoe County Palliative Care Program, Orillia, ON, May 2008. Sexuality and cancer.


Trachtenberg J: University of Graz, Graz, Austria, November 2007. Image-guided focal therapy of low risk prostate cancer.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A phase 2, randomized, double-blind, parallel group, placebo-controlled, multi-centered study to evaluate the urodynamics and safety of YM178 in male subjects with lower urinary tract symptoms (LUTS) and bladder outlet obstruction (BOO). Radomski SB: Astellas Pharma US, Incorporated. ($38,500 2007 - 2008.)


A randomized double-blind study to assess the safety and efficacy of slifenacin (vesicare) in comparison to oxybutynin for overactive bladder patients. Radomski SB: Astellas Pharma Canada Incorporated. ($26,000 2006 - 2008.)

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.)


Comparison between 2 of M3 receptors antagonists on detrusor overactive bladder in spinal cord injured patients. Hassouna M: Ontario Neurotrauma Foundation. ($10,000 2007.)

Development of a prostate cancer prevention clinic. Trachtenberg J, Ritvo P, Paterson A, Squire J, Yue C, Matthew AG: Princess Margaret Hospital Foundation. ($1,000,000 2000 - 2010.)

Development of novel minimally invasive surgical techniques. Trachtenberg J: Princess Margaret Hospital Foundation. ($2,500,000 2003 - 2008.)


Does directed self-audit of urologists stimulate reflection and improved lymph node retrieval in patients with bladder cancer? Finelli A, Gagliardi AR, Kulkarni GS, Fleshner NE: Continuing Education and Professional Development, Faculty of Medicine, University of Toronto. ($5,000 2008 - 2009.)


Effect of RANK ligand inhibition on metastatic prostate cancer. Trachtenberg J: Amgen. ($90,000 2008 - 2009.)


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.)


Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner N, Haider M, Venkateswaran V: Canadian Urological Association/Canadian Urologic Oncology Group/Abbott Prostate Cancer Research Grant. ($25,000 2007 - 2008.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early state prostate cancer. Fleshner N, Haider M, Venkateswaran V: Prostate Cancer Research Foundation of Canada. ($60,000 2007 - 2008.)

In bore robotic assisted image-guided focal ablation of prostate cancer. Trachtenberg J, Haider M, Goldenberg A, Kucharczyk W: Princess Margaret Hospital Foundation. ($160,000 2006 - 2007.)


Program project grant: Photodynamic therapy-basic science studies. Project 3-prostate preclinical. Hetzel FWI, Chen Q, Wilson BC, Trachtenberg J: National Institutes of Health (United States). ($1,000,000 2002 - 2009.)

Prospective randomized double-blind trial of intravesical injection of botulinum toxin A versus saline for neurogenic detrusor overactivity and urinary incontinence related to spinal cord injury or multiple sclerosis. Herschorn S, Radomski SB: Allergan Canada. ($39,000 2006 - 2007.)


Randomized study to investigate the efficacy and safety of treatment with dutasteride and tamsulosin once daily for four years on the improvement of symptoms and outcome of benign prostatic hyperplasia. Hassouna MM, Radomski S: Glaxo-Smith-Kline Pharmaceutical. ($15,000 2004 - 2008.)

Randomized trial of the effects of cholecalciferol on prostate cancer associated lesions and on cholecalciferol metabolites in prostate tissue. Veith R, van der Kwast T, Fleshner N, Klotz L: Canadian Institutes of Health Research. ($262,730 2006 - 2008.)

Reduction in progression among men on watchful waiting using dutasteride. Fleshner N, REDEEM Study Group: Glaxo Smith Kline. ($8,000,000 2006 - 2011.)


Wyeth/Canadian Institutes of Health Research Clinical Research Chair in Oncology. Jewett M: Canadian Institutes of Health Research. ($1,100,000 2008 - 2013.)
Honours Received


DIVISION OF VASCULAR SURGERY

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

Publications


Invited Visits

Lindsay TF: Winnipeg Vascular Symposium, Winnipeg, MB, April 2008. Is there a role for stem cells in peripheral arterial disease.


Rubin BB: Eicosanoid Research Foundation, 10th International Eicosanoids Conference, Montreal, PQ, September 2007. (1) Microsomal prostaglandin E2 synthase-1 deletion leads to adverse left ventricular remodeling after myocardial infarction.


Wooster DL: AVID, New York, New York, November 2007. (1) Barriers to AAA screening: Lessons learned from a survey of primary care practitioners [co-authors: Dueck AD, Wooster EM], (2) Structured report audit system for quality assurance and improvement of your vascular lab reports.
Research and Investigations

Complement activation following ruptured abdominal aortic aneurysm: Combining human observation with animal experimentation to establish a framework for human therapy. Lindsay TF: The Physicians’ Services Incorporated Foundation. ($161,000 2007 - 2009.)

Continuing education strategies in the implementation of clinical practice guidelines: Addressing a care gap. Wooster D, Dueck A, Wooster E: Office of Continuing Education, Faculty of Medicine, University of Toronto. ($5,000 2007 - 2008.)


Role of microsomal prostaglandin E2 synthase in ventricular remodeling after myocardial infarction. Rubin BB: Canadian Institutes of Health Research. ($384,000 2007 - 2011.)

Study on AAA guidelines implementation. Wooster D: Continuing Education Research and Development Grant. ($10,000 2007- 2009.)


Honours Received


The New Women’s College Hospital continues to evolve as an academic ambulatory surgical centre that is fully integrated with the hospital’s ambulatory programs and services and is a designated facility for ambulatory surgery in the Toronto Central LHIN. Women’s College will develop as a fully academic affiliated site for inter-professional research and education in ambulatory surgery focused on minimally invasive and specialized ambulatory procedures in subspecialty areas of Urology, Orthopedics, Plastic Surgery and General Surgery.

New Staff
Dr. John Theodoropolous in Orthopedic Surgery joined us in November of 2007 in partnership with Mount Sinai Hospital. John brings several years of clinical experience in the community as well as being the designate physician for several professional sports teams. Dr. Theodoropolous will be a key surgeon in the Orthopaedic Sports Medicine Program here at Women’s College.

Dr. Brett Beber, a Plastic Surgeon, with a primary appointment at Toronto East General Hospital was recruited as an “affiliate” surgeon (part-time) to assist in reducing the wait times of breast reconstruction at Women’s College Hospital. Dr. Beber will carry out a clinic and participate in the OR in immediate breast reconstruction at Women’s College Hospital.

Women’s College will continue to actively recruit in surgical areas that are central to key programs.

Appointments and Activities
Dr. Mitch Brown and Dr. John Semple co-chaired the 8th Annual Toronto Breast Surgery Symposium held this past April. Dr. Semple stepped down as Research Director of the Division of Plastic Surgery after eleven years of service. Dr. Brown has taken on the important position of Program Director of the Division of Plastic Surgery. Dr. Brown was an invited lecturer for the Korean Society of Plastic and Reconstructive Surgery in Seocho-Ku, Seoul, Korea in May of 2008. Women’s College Hospital has one of two sites (the other being UHN) to be designated under the new Allergan Breast Cancer Reconstruction Fellowship. In January 2008 our first international fellow, Dr. Meredith Simcock (from New Zealand), became the inaugural clinical fellow at Women’s College Hospital. This has become a very popular international fellowship with upcoming fellows from Switzerland and Israel. Dr. Brown as a supervisor in research, along with a final year U of T plastic surgery resident (Dr. Laura Snell), has recently won two awards for their research. Research on “Breast Implant Capsules and Sub Clinical Infections,” won best clinical paper at the University of Toronto, Division of Plastic Surgery, Resident Research Day as well as best poster at the recent Canadian Society of Plastic Surgery Annual Meeting in St. John’s, Newfoundland.

Dr. Semple won a research award at the Canadian Breast Cancer Alliance, Canadian Breast Cancer Foundation Conference in Vancouver, BC in April 2008 for best poster entitled “Quantification of Lymphatic Function Following Lymph Node Excision: The Development of a Lymphedema Model in Sheep,” which he co-supervised with Dr. Miles Johnston of the Sunnybrook Research Centre and Dr. Dalia Tobbia (a surgical research fellow). His work, “Microsurgical Auto Transplantation of Lymph Nodes and the Prevention of Experimental Lymphedema” also won the Zeiss Award for Best Podium presentation during the recent meeting of GAM (Group of Advancement of Microsurgery) at the Canadian Society of Plastic Surgeons’ Annual Meeting in St. John’s, Newfoundland.

A new Surgical Clinical area is currently under construction within the Women’s College Hospital, which will provide office/administrative and clinical space for the core surgical activities and programs. This construction should be completed by Fall 2009. The New Women’s College continues to build surgical partnerships and integrate with existing services in other hospitals and health organizations across the LHIN.
DIVISION OF GENERAL SURGERY

Dr. G.Y. Hiraki – Assistant Professor
Dr. L. Lickley – Professor

Publications


Research and Investigations

Senior Investigator’s Name Appears in Italics


Clinical trials support. Lickley HLA: Bennett Family Foundation. ($400,000 2006 – 2008.)

DIVISION OF ORTHOPAEDIC SURGERY

Dr. J. Theodoropoulos – Lecturer

Publications

DIVISION OF PLASTIC SURGERY

Dr. M.H. Brown – Associate Professor
Dr. J.L. Semple – Associate Professor

Publications


Invited Visits


Research and Investigations

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

Advanced Regenerative Tissue Engineering Centre (ARTEC) program based at Sunnybrook Health Sciences Centre, in partnership with University of Toronto, APOTEC Research Incorporated, Rimon Therapeutics, Elastin Specialties and matRegen, for multiple projects.  **Semple JL**, Woodhouse K, Sefton M, Shoichet M, Dumont D, Midha R, Fish J: *Ontario Research Development Challenge Fund.* ($12,568,500  2003 - 2008.)


Honours Received

**Brown MH**: W.K. Lindsay Research Award, Division of Plastic Surgery. April 2008.
DIVISION OF UROLOGY

Dr. E. Grober – Assistant Professor

Publications


Invited Visits


Research and Investigations

*Senior Investigator’s Name Appears in Italics*


Honours Received

**Grober ED**: 1st Prize for Best Scientific Poster, “Comparison of Strict Morphology among Fertile and Infertile Males (Grober ED, collaborator), Kimbrough Award from the Society of Government Service Urologists, July 2007.
De part ment of Sur gery an nual re port - 2007/2008

Publications


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. Morshede C: Premier’s Research Excellence Award. ($100,000 2004 – 2009.)


Development of an in situ 3D computer model to investigate movement/stability characteristics of lumbar back muscles. Agur A: Dean’s Fund, University of Toronto. ($10,000 2004 – 2009.)


Full thickness tears of the supraspinatus tendon: A clinical ultrasonographic study. Agur A, Boynton E: Canadian Orthopaedic Foundation. ($10,000 2006 – 2007.)

Functional partitioning of the lumbar multifidus: An analysis of muscle architecture, nerve and fiber type distribution using a novel 3D in situ approach. Agur A: AO/ASIF (Arbeits-gemeinschaft für Osteosynthese/Association for the Study of Internal Fixation) Foundation, Switzerland. ($68,000 2004 – 2007.)
In vivo monitoring of neural recovery following stem cell therapies to treat stroke. Stanisz G, Morshead C, Lobough N: Canadian Institutes of Health Research. ($450,000 2007 – 2010.)


Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application. Fehlings MG, Morshead C, van der Kooy D, Tator 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 extracellular matrix in adult CNS neurodegeneration. Koeberle P: Connaught New Staff Grant. ($10,000 2007 – 2008.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koeberle P: Dean's Fund, University of Toronto. ($10,000 2007 – 2010.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koeberle P: Connaught New Staff Matching Grant. ($30,000 2007 – 2009.)


The role of RGMa in retinal cell degeneration. Koeberle P, Monnier P: Glaucoma Research Society of Canada. ($10,000 2006 – 2007.)


Honours Received


Taylor I: Harry Whittaker Memorial Award. Faculty of Medicine. May 2008.

Research in Education

Dr. H. Carnahan – Professor
Dr. A. Dubrowski – Assistant Professor
Dr. G. Regehr – Professor
Dr. N. Woods – Assistant Professor

Publications


Invited Visits

Carnahan H: Department of Psychology, York University, Toronto, ON, November 2007. Enabling health professions education: The role of simulation.

Carnahan H: Third Annual Everyday Technology for the Alzheimer Care Symposium, Chicago, Illinois, October 2007. The application of a tactile way-finding belt to facilitate navigation.


Regehr G: Queen’s University, Faculty of Medicine Evaluation Retreat, Kingston, ON, March 2008. Keynote Address: Representing competence without scales: Toward a model of authentic clinical evaluation.


Regehr G: University of British Columbia, Department of Medical Education, Education Rounds, Vancouver, BC, February 2008. Kids these days: Promoting and exploiting adult learning in medical students.

Regehr G: Vanderbilt University, Department of Medical Education, Education Rounds, Nashville, Tennessee, January 2008. It’s NOT rocket science: Rethinking the research agenda in health professions education.

Regehr G: McMaster University Health Sciences Program for Education Research and Development, Education Rounds, Hamilton, ON, December 2007. It’s NOT rocket science: Rethinking the research agenda in health professions education.


Regehr G: Peninsula University Medical School, Medical Education Rounds, Plymouth, United Kingdom, June 2007. Invited Address: Measuring the social in health professional education: Epistemological and rhetorical issues.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Arthroscopy equipment. Safir O, Carnahan H, Dubrowski A: Liventek Canada Incorporated. ($100,000 2007 - 2008.)

Documenting and disseminating the daily educational innovations of clerks: A pilot project in surgery. Woods N, Mylopoulos M, Regehr G: University of Toronto, Faculty of Medicine, Educational Development Fund. ($20,000 2007 – 2009.)


Model and curriculum development for training rehabilitation specialists using simulation. Carnahan H, McKee P: Faculty of Medicine Educational Development Fund. ($20,000 2007 - 2008.)

Motion analysis system to quantify manual skills. Carnahan H: National Sciences and Engineering Research Council of Canada. ($76,000 2007 - 2008.)


Team Talk II: A multi-institutional evaluation of a checklist intervention to structure communication and promote patient safety in the operating room. Lingard L, Regehr G, Baker GR, Bohnen JM, Doran DM, Orser BA, Reznick RK, Rotstein L: Canadian Institutes of Health Research. ($311,735 2004 - 2009.)


The role of skilled tongue pressure format. Steeles CM, Bressman T, Carnahan H: Canadian Institutes of Health Research. ($81,636 2007 - 2008.)

The role of tongue pressure generations kill in the oral phase of swallowing. Steeles CA, Bressman T, Carnahan H: Canadian Institutes of Health Research. ($244,316 2007 - 2010.)


CROSS APPOINTMENTS

Dr. A.J. Baker (Anaesthesia)
Dr. B. Bapat (Laboratory Medicine and Pathobiology)
Dr. P. Birek (Dentistry)
Dr. A. Campbell (Medicine)
Dr. J. Carson (Family and Community Medicine)
Dr. W.A. Cassar-Demajo (Anaesthesia)
Dr. A. Daar (Public Health Sciences)
Dr. A. Damyanovich (Medical Imaging)
Dr. J.E. Davies (Dentistry)
Dr. W.A. Demajo (Anaesthesia)
Dr. A.D. DePetrillo (Obstetric and Gynaecology)
Dr. E. Diamandis (Laboratory Medicine and Pathobiology)
Dr. R.J. Eby (Medicine)
Dr. V.L. Fornasier (Laboratory Medicine and Pathobiology)
Dr. A. Fox (Medical Imaging)
Dr. J. Freeman (Otolaryngology)
Dr. R. Gilbert (Otolaryngology)
Dr. M. Greenberg (Pediatrics)
Dr. M.D. Grynpass (Laboratory Medicine and Pathobiology)
Dr. P.J. Gullane (Otolaryngology)
Dr. B. Harvey (Public Health Sciences)
Dr. J. Irish (Otolaryngology)
Dr. J. Irvine (Psychiatry)
Dr. G. Jackowski (Laboratory Medicine and Pathobiology)
Dr. M.G. Johnston (Laboratory Medicine and Pathobiology)
Dr. R. Kandel (Laboratory Medicine and Pathobiology)
Dr. W. Kucharczyk (Medical Imaging)
Dr. M. Lee (Anatomy)
Dr. G.A. Levy (Medicine)
Dr. C. Lumsden (Medicine)
Dr. A. McDonald (Medicine)
Dr. J. McGlade (Medical Biophysics)
Dr. D.A.G. Mickle (Laboratory Medicine and Pathobiology)
Dr. M. Milner (Rehabilitation Sciences)
Dr. W. Montanera (Medical Imaging)
Dr. J. Mullen (Laboratory Medicine and Pathobiology)
Dr. S. Narod (Public Health Sciences)
Dr. M. Ojha (Rehabilitation Sciences)
Dr. K.P.H. Pritzker (Laboratory Medicine and Pathobiology)
Dr. P. Ritvo (Public Health Sciences)
Dr. A. Romaschin (Laboratory Medicine and Pathobiology)
Dr. J. Rutka (Otolaryngology)
Dr. A. Slutsky (Medicine)
Dr. D. Stewart (Psychiatry)
Dr. K.G. terBrugge (Medical Imaging)
Dr. T. van der Kwast (Laboratory Medicine and Pathobiology)
Dr. Q. Wan (Physiology)
Dr. I. Weller (Public Health Sciences)
Dr. L. White (Medical Imaging)
Dr. R. Willinsky (Medical Imaging)
Dr. L. Wilson-Pauwels (BioMedical Communications)
Dr. I. Witterick (Otolaryngology)