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Dr. R.K. Reznick (May 24, 2010)
Dr. D.A. Latter [Interim Chair July 1, 2010 to March 31, 2011]

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Dr. C. Caldarone  Cardiac Surgery
Dr. A. Smith  General Surgery / Bernard and Ryna Langer Chair
Dr. J.T. Rutka  Leslie Dan Professor and Chair of Neurosurgery
Dr. B. Alman  A.J. Latner Professor and Chair of Orthopaedic Surgery
Dr. D. Anastakis  Plastic Surgery
Dr. S. Keshavjee  F.G. Pearson / R.J. Ginsberg Chair in Thoracic Surgery
Dr. S. Herschorn  Martin Barkin Chair in Urological Research
Dr. T. Lindsay  Vascular Surgery
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In May of 2010, Richard Reznick, our 10th Chair of the Department of Surgery, accepted the position of Dean, Faculty of Health Sciences at Queen’s University. As a search for the next Chair began, Dean Whiteside asked if I would accept the role of Interim Chair of this incredible department. I was honoured but also somewhat worried about taking this challenge on. With reassurances from my wife and my cardiac surgery partners, and some strong arm twisting from my fellow surgical colleagues in the Banting offices, I accepted. It is with pride that I write this annual report for this wonderful Department.

First of all, I must thank all of you, the surgeons of our Department, for your support. I am especially grateful to the administrative staff of the Banting for their patience and help, and my fellow executive officers and education leaders for their wise counsel and assistance. I would also like to acknowledge the dedicated work of our University Division Chairs, our Program Directors, our Surgeons-in-Chiefs, and our site chiefs who so effectively manage our clinical programs, our research efforts, and our teaching programs.

In the brief period of time from May to this writing, I have gained a significant appreciation of just how broad and deep the expertise of our faculty truly runs. Each of our divisions is populated with expert surgeons, teachers, and scientists; and all of our divisions effectively deliver expert health care, teach, and advance medical care and science through scientific research. We truly do have world experts in every one of our divisions. Through our clinical training programs and our Surgeon Scientist Program, we are preparing our students to be our successors in these roles.

It is often said that the sheer size of our medical faculty and campuses at the University of Toronto is a strength, but it also has its challenges. Our 250 surgeons and scientists, in eight divisions, spread over ten core teaching hospitals represent the largest surgical faculty in Canada by far. Collegial cooperation in such a large faculty is essential for us to leverage that size distinction to our advantage. I believe we have met that challenge and function more collaboratively and effectively than ever before.

The most important activity the Department can do to ensure its health is to recruit well. With mandatory searches for every recruit, we ensure that each new faculty member brings new strengths and guarantees our future. Into full-time appointments, the Department welcomes: Jean François Boileau (General Surgery, Sunnybrook Health Sciences Centre), Gregory Borschel (Plastic & Reconstructive Surgery, The Hospital for Sick Children), Tessa Gordon (Plastic and Reconstructive Surgery, The Hospital for Sick Children), Jeremy Hall (Orthopaedic Surgery, St. Michael’s Hospital), Timothy Jackson (General Surgery, University Health Network), Marc Jeschke (Plastic and Reconstructive Surgery, Sunnybrook Health Sciences Centre), Todd Mainprize (Neurosurgery, Sunnybrook Health Sciences Centre), Faad Moussa (Cardiac Surgery, Sunnybrook Health Sciences Centre), Lucas Murnaghan (Orthopaedic Surgery, Women’s College Hospital, The Hospital for Sick Children, and Mount Sinai Hospital), Graham Roche-Nagle (Vascular Surgery, University Health Network), Marcus Selzner (General Surgery, University Health Network), Fiona Webster (Research, Sunnybrook Health Sciences Centre), and Thomas Willett (Research, Mount Sinai Hospital).

The Department also made a number of part-time and adjunct appointments. We welcome John Dickie (Thoracic Surgery, Toronto East General Hospital), Peter Stotland (General Surgery, North York General Hospital), Pradeep Alexander (Orthopaedic Surgery, William Osler), Thomas Bertoia (Orthopaedic Surgery, Southlake Regional Hospital), Gopal Bhatnagar (Cardiac Surgery, Trillium Health Centre), Peter Dauphinee (General Surgery, Royal Victoria Hospital), Cory Goldberg (Plastic and Reconstructive Surgery, Trillium Health Centre), Peter Hagen (General Surgery, Trillium Health Centre), Mariana Kappala (General Surgery, Trillium Health Centre), Ziv Margaliot (Plastic and Reconstructive Surgery, Trillium Health Centre), Donald Munnings (General Surgery, Trillium Health Centre), David Latter (Orthopaedic Surgery, Southlake Regional Hospital), Morris Rebot (Plastic and Reconstructive Surgery, Trillium Health Centre), Mark Taylor (General Surgery, Lakeridge Hospital), Michael Weinberg (Plastic and Reconstructive Surgery, Trillium Health Centre), and Joseph Wen (General Surgery, Trillium Health Centre).

Nineteen surgeons were successfully promoted this past academic year. Promoted to Assistant Professor were John Hagen. Promoted to Associate Professor were Najma Ahmed, David Fisher, Stephen Lewis, Eric Massicotte, Andrea McCort, Ian McGillivray, Kenneth Pace, Yaron Shargall, and Michael Taylor. Promoted to Full Professor were Darius Bagli, Magdy Hassouna, John Honey, Nizar Mahomed, Barry McLellan, Vivek Rao, William Tucker, Thomas Waddell, and Terrence Yau.

Over this past academic year, six respected and esteemed colleagues passed away. Sadly, we lost Clare Baker...
1922-2010 [cardiac surgeon, St Michael’s Hospital], David Hastings 1932-2010 [orthopaedic surgeon, St Michael’s Hospital], Robert Jackson 1932-2010 [orthopaedic surgeon, University Health Network], Philip Klotz 1925-2010 [urologist, Mount Sinai Hospital], Robert Salter 1924-2010 [orthopaedic surgeon, The Hospital for Sick Children] and Shafe Fazel 1972-2010 [resident in cardiac surgery, University of Toronto].

Jim Rutka completed his second term as Chair of the Division of Neurosurgery. In the eleven years that Jim served, the Division of Neurosurgery thrived and solidified its position as one of the premier neurological divisions anywhere in the world. A vigorous search for a new Chair took place and resulted in the appointment of Andres Lozano as the new Chair of the division.

In 2010, Shaf Keshavjee was appointed as the Surgeon-in-Chief of University Health Network. This important position necessitates Shaf’s full attention and accordingly Shaf stepped down from his position as Division Chair for Thoracic Surgery. Tom Waddell accepted my request to serve as Interim Chair while the Department conducts a search for the new Chair for the Division of Thoracic Surgery.

I would like to take this opportunity to thank Bryce Taylor for his loyal service for eleven years as Surgeon-in-Chief of University Health Network and also for his roles as Associate Chair of the Department of Surgery and Chair of the Continuing Appointment Review Committee for our Department.

The research activities of the Department will be reported in greater detail by Ben Alman in his Vice-Chair of Research report. In brief, our Department continues to enjoy great success in all areas of research with captured grant monies totalling over 38 million dollars. The highlight of our year was the Surgeon Scientist Program 25th Anniversary Gala held May 6th. The evening was a remarkable acknowledgement and celebration of the hundreds of scientists who have trained under the Surgeon Scientist Program. In attendance during this celebration were former Governor-General of Canada Adrienne Clarkson, CBC journalist/broadcaster Susan Ormiston, the Gordon Murray Lecturer Dr. Joseph Vacanti, Dean Catherine Whiteside, and over 500 hundred surgeons, residents and guests.

During this past year our faculty won many awards both in areas of research and for teaching. The winners of our Departmental educational awards are: Robert Mustard [Bruce Tovee Postgraduate Award], Robert Stewart [Bruce Tovee Undergraduate Award], Richard Holtby [Surgical Skills Laboratory Award], Rashid Jinnah [D.R. Wilson Award], and Osami Honjo [Zane Cohen Clinical Fellowship Achievement Award]. Our Departmental research awards went to: Barry Rubin [Lister Prize], Subodh Verma [George-Armstrong Peters Award], Rebecca Gladys [Langer Surgeon Scientist Award], and Richard Reznick [Charles Tator Award].

Faculty of Medicine teaching award winners were: Peter Ferguson, Ron Kodama, and Mike Wiley all won W.T. Aikins Awards. Mike Wiley also won the university’s highest teaching award, the President’s Teaching Award. William Kraemer won an Excellence in Post-Graduate Medical Education Award. Subodh Verma and David Backstein were co-winners of the Silver Shovel Chute Award.

There are too many research awards, grants and accomplishments by our faculty to fully list them here. The following examples will give some scope of the nature of their accomplishments: Ben Alman published in Nature Medicine, Michael Cusimano was awarded a 5-year CIHR strategic team grant, Michael Fehlings won the prestigious Olivecrona Award, Bernard Goldman and Patrick Gullane were both appointed to the Order of Canada, Andres Lozano was named as a Fellow of the Royal Society of Canada, Richard Reznick won the 2010 Karolinska Institute Prize, Jim Rutka was named the President of the American Association of Neurological Surgeons, Charles Tator received the Canadian Neurosurgical Society’s Lifetime Achievement Award, Michael Taylor was a 2010 Royal College of Physicians and Surgeons of Canada Medalist, Subodh Verma was named as a “Top 40 Under 40” recipient, Richard Weisel received the American Association for Thoracic Surgery Scientific Achievement Award, and Hugh Scully was awarded the Canadian Medical Association Medal of Service.

Integrated Medical Education (IME) has developed into one of the major focuses of our Faculty of Medicine with the Mississauga campus for medical students officially opening September 2011. As a result, Trillium Health Centre and Credit Valley Hospital, are poised to become fully integrated medical education campuses over the next few years. There are numerous issues associated with the implementation of such a sudden and large expansion of integrated medical education to our partner community hospitals including remuneration, appointments, evaluations of learners and teachers, etc. The Department of Surgery will play a significant role in this initiative and will continue to ensure the best possible education to all our undergraduate and postgraduate students.

Another issue, which is clearly relevant to our Department, is the development of a University of Toronto policy regarding industry relationships with the University. Surgery has always had a good working relationship with our industry partners leading to innovations and cutting edge surgery. As well, industry support of our various educational and research efforts have been significant over the years. To be sure, conflict of interest does occur and must be managed if we are to remain true to our ideals. Be assured that the Department will work hard to influence the formulation of a policy that is a realistic workable document that manages conflict of interest but also allows appropriate industry support to continue.

Continued medical education has for too long been underappreciated in our educational mandate. With Terry Axelrod assuming the role of Director of CME, we are moving to enhance the Department’s presence in this area of education. Increasing not just the quantity but also the quality and scholarship of Departmental CME is being promoted.
Finally, I would like to comment on the significance of the University of Toronto Department of Surgery brand name and our efforts in international surgery. To the outside world we are a leading institution and we should recognize this position of influence and use it for the benefit of others in the world. Clinical fellows from all over the globe come here to be educated and then return to their native lands to better the health of their countrymen, but through our clinical fellows we can only accomplish so much. We ought to do more, especially as the discrepancy between have and have not nations increases. A significant number of our Department faculty are already engaged in international surgery efforts ranging from tele-surgery, to medical missions, to partnerships. I hope that over the coming years the Department can better focus and coordinate its international surgery efforts and develop even more effective, longitudinal projects that have lasting benefits for our international partners.
Our academic footprint is a measure of how we impact academic surgery internationally. It is a measure of the impact of our publications, the number of our trainees who have developed successful academic careers outside of Toronto, and how our work improves the outcome for the patients we treat. We have one of the world’s largest academic footprints, and this accomplishment is in no small part due to the establishment of our Surgeon Scientist Program (SSP).

This year marked the 25th anniversary of the SSP, which pioneered a formal training program for residents to participate in graduate level research training. To celebrate the anniversary, we held a special Gallie Day event, “SHARP MINDS, SKILLED HANDS.” As part of the event, we invited former trainees to return to Toronto to update us on their research and to speak on the impact the SSP had on their lives. The work from our trainees highlighted the impact we are continuing to make in the research realm, and also showed our tremendous future potential, to continue to generate new knowledge at the highest level that will ultimately improve the outcome for the patients we treat. This program, which is the model for research training of clinicians world wide, is responsible for much of our department’s academic footprint.

The past several years have seen the development of new technologies and research paradigms that have improved the quality and clinical applicability of our research work. These developments are associated with growth in the size of the biomedical research community and the expense of undertaking high quality research studies. Indeed there has been tremendous growth in the Toronto research community over the past decade. Unfortunately, national research funding has not kept pace with the increased costs associated with undertaking this high quality research. Despite these challenges, we continue to excel at research funding – totalling more than $38,000,000 this year, which exceeds that of many other Universities in Canada. 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.

There have been hundreds of publications from our faculty members, including many 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. Notwithstanding 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 to $9,000,000 in funding received this past academic year.

The Surgeon Scientist Program continues to grow, with over thirty residents participating this year. Over 85% of our Surgeon Scientist Program trainees were successful in receiving full or partial salary support from external granting agencies. For 2009-10, Johnson & Johnson Medical Products provided financial support under the Surgeon Scientist Program to four trainees who were Barbara Haas, Gregory Hawryluk, Simon Yang and Ali Zahrai.

Gallie Day this year was a celebration of the establishment of the Surgeon Scientist Program twenty-five years ago, and the theme was decades of surgical research at the University of Toronto. The day also included a Gordon Murray Lecturer in the person of Dr. Joseph P. Vacanti [Harvard Medical School, Massachusetts General Hospital, Department of Pediatric Surgery, Boston, Massachusetts.] He gave a fascinating lecture entitled, “Tissue Engineering and Regenerative Medicine: From Science to the Surgical Armamentarium.”

There were 21 platform presentations and 50 poster presentations from trainees who were members of the Surgeon Scientist Program or non-residents training in research with our departmental faculty members. Among the SSP alumni presenters were: Peter J. Evans, Paul Fedak, John S. Ikonomidis, Douglas Kondziolka, Joan Lipa, Rajiv Midha, Sheila Singh, Larissa Temple and Dan Theodorescu. We were pleasantly taken back by our surgical leaders who conceptualized and directed the program over the years. They included: Steven Strasberg, Charles Tator and Richard Weisel.

The Gallie Bateman Awards [for Surgeon Scientist Program participants] and the McMurrich Awards [for any trainee working with a member of the faculty of surgery] were judged for both platform presentations and poster presentations. The diversity of the topics and types of trainees highlighted the diverse, yet high quality, research being conducted in our department. Attendance for the day was larger than usual and for much of the day there was a standing room only crowd.

The Gallie Bateman Award for best work by a trainee in the Surgeon Scientist Program went to Douglas J. [DJ] Cook (Michael Tymianski, supervisor): “Neuroprotection in the gyrencephalic brain: Effectiveness of the PSD-95 inhibitor NA-1 in treating experimental stroke in the cynomolous macaque”, 2nd place to Mitesh V. Badiwala [Vivek Rao,


Faculty research awards went to Rebecca Gladdy (Bernard Langer Surgeon Scientist Award, awarded to an outstanding graduate of the Surgeon Scientist Program in the Department who shows the greatest promise for a career in academic surgery), Subodh Verma (George-Armstrong Peters Prize, awarded to a young investigator who has shown outstanding productivity during his initial period as an independent investigator as evidenced by research publications in peer-reviewed journals, grants held, and students trained), Richard Reznick (Charles Tator Surgeon Scientist Mentoring Award, to recognize individual supervising participants in the SSP who emulate Professor Tator’s qualities; namely, excellence in research, commitment to SSP mentoring and dedication to promotion of Surgeon-Scientists) and Barry Rubin (Lister Prize, awarded to an investigator who has shown outstanding and continuing productivity of international stature as evidenced by research publications, grants held, students trained and other evidence of stature of the work produced.)

Our faculty includes more than 30 non-clinician scientists, all of whom are undertaking research work at the highest levels. They received numerous awards this past year, illustrating that their work is recognized internally, nationally and internationally. To name a few, Cho Pang received the Plastic Surgery Education Foundation Award for Outstanding Achievement in Basic and Translational Research; Mike Wiley, Chair of the Division of Anatomy, was the recipient of an Aiken’s award this year which is the most prestigious teaching award given to a member of the Faculty of Medicine.

Faculty accomplishments in the past year were phenomenal. 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: Andres Lozano (Division of Neurosurgery) being elected as a Fellow of the Royal Society of Canada for his work on developing novel surgical approaches to treat Parkinson’s disease, depression and Alzheimer’s disease; Michael Taylor winning the Young Investigator Award in biomedical science from the Canadian Cancer Society Awards for Excellence in Cancer Research.

The Departmental Research Committee continues 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 optimizing the strengths of Gallie Day and research educational activities. The non-clinician scientist retreat, organized by Andras Kapus and Val Cabral, was very well attended and collaborations were established.

Research will always play a leading role in our department and we have made extraordinary accomplishments in the past year. There is no doubt in the upcoming years that our research activities will continue to expand, with new avenues of investigation being developed and improvements in our research support to increase the breadth and depth of our work, ultimately improving the outcome for our patients.

Special thanks to Val Cabral for her co-ordination of all aspects of the Departmental research activities.
The Department of Surgery at the Postgraduate level is the largest in Canada with 248 residents and 194 clinical fellows. There have been many accomplishments and successes in the 2009-2010 academic year.

There are 11 surgical programs: 6 CaRMS entry and 5 subspecialty programs. The backbone of the 11 surgical programs is the Program Director and their administrative assistant. It is a huge thankless job to coordinate and maintain each of these surgical specialties.

There have been some changes this year. Dr. Richard Reznick has stepped down as Chairman after eight years to become Dean at Queen’s University. Dr. Carol Swallow has stepped down as Program Director of Surgical Oncology after she has grown Surgical Oncology at the University of Toronto to one of the best programs in North America. Dr. Swallow has been replaced by Dr. Frances Wright.

Our surgical positions for all of our CaRMS entry specialty programs are sought after by medical students from across Canada. This year’s CaRMS entry surgical positions were filled in the 1st reiteration. Most of these positions were filled with our top ranked applicants. Many of the surgical specialties also take IMGs (International Medical Graduates) and visa trainees from around the world.

The first two years of training in surgery is known as Core Surgery. Besides attending specialty-specific academic endeavors, the Core Surgery residents attend the Principles of Surgery (POS) lectures to prepare them for the POS Royal College Exam. These weekly seminars are coordinated by Dr. Robert Mustard. Dr. Mustard also organizes practice exams. The high success rate of our students at the POS Exam is a testament to all of Dr. Mustard’s hard work.

Another important part of the postgraduate curriculum in all specialties is the Surgical Skills Lab at the Mount Sinai Hospital. All PGY1 residents attend one-year surgical skills courses where they learn fundamental surgical skills. Each of the surgical specialties also run their own courses where surgical skills specific to their specialty are taught. Dr. Helen MacRae is the Director and Lisa Satterthwaite is the Manager of this unique skills lab.

There are a number of academic days to enhance the educational experience of the surgical resident. In July, the Core Surgery residents attend “The Surgeon in Society” where medical legal issues are discussed. Dr. John Murnaghan runs “Residents as Teachers” for the PGY1 and PGY3 residents. This is a workshop to teach our residents to be better teachers. There is an orientation day organized by Dr. Ron Levine for all of our new first year residents. All of our first year residents attend the ATLS course coordinated by Dr. Jameel Ali at St. Michael’s Hospital.

Case logging on POWER is now mandatory for all surgical residents. All but two of the surgical specialties are using POWER case logging. The Program Directors can monitor the operating experience of the learner at each hospital and can compare the experience from one hospital to another.

The University of Toronto, The Royal College of Physicians and Surgeons and the Ministry of Health have all mandated an increased community experience for our residents. This mandate is called Distributed Medical Education. To meet this mandate, the Department of Surgery has increased the number of residents going to community hospitals. At the present time residents are going regularly to St. Joseph’s Health Centre, Toronto East General Hospital, North York General Hospital, Humber River Regional Hospital, William Osler Heath Centre - Etobicoke General, Credit Valley Hospital and Trillium Health Centre. The feedback from residents rotating through these community hospitals has been excellent. In the future, we hope to be sending residents to South Lake.

The Competency Based Curriculum in Orthopaedic Surgery continued for the academic year 2009-2010. Three new residents were accepted into the program and thus far it seems to be extremely successful due to the hard work of Dr. Kraemer, the Program Director.

There was a new PAIRO agreement that went into effect on July 1, 2009. The new contract had the residents going home two hours post call. We felt that this would have a negative effect on the education of our residents. In the new contract there was an exemption process. Accordingly, the Department of Surgery applied for a department-wide exemption. We were the only department in the province to seek such an exemption. In September 2009, the department met with members of PAIRO, CAHO and Surgeons and the Ministry of Health have all mandated an increased community experience for our residents. This mandate is called Distributed Medical Education. To meet this mandate, the Department of Surgery has increased the number of residents going to community hospitals. At the present time residents are going regularly to St. Joseph’s Health Centre, Toronto East General Hospital, North York General Hospital, Humber River Regional Hospital, William Osler Heath Centre - Etobicoke General, Credit Valley Hospital and Trillium Health Centre. The feedback from residents rotating through these community hospitals has been excellent. In the future, we hope to be sending residents to South Lake.

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goals and objectives and uniformity of remuneration. In an effort to improve the social environment for our clinical fellows and their families, the Department hosts an annual BBQ in August specifically inviting spouses and children so that families can get to know each other.

The Women in Surgery group under the leadership of Dr. Gail Darling met three times this year. This group discusses issues of finding the balance of family life with a surgical career. It is well attended by female medical students, residents and faculty. Dr. Darling will be stepping down and Dr. Melinda Musgrave has agreed to take over.

Dr. Robert Mustard was awarded the 2010 Bruce Tovee Award for Postgraduate Teaching. Dr. Richard Holtby won the 2010 Clinical Skills Centre Distinguished Educator Award. The 2010 D.R. Wilson Award for resident teaching of medical students was won by Dr. Rashid Jinnah.

The running of the Office of Postgraduate Education with 248 residents, 194 fellows and 265 faculty members is a huge endeavor. This is masterfully done by Tess Weber and her assistant Robert Gardin.
One of the major Surgical Clerkship developments this past year was the successful expansion of our clerkship into several "community” experiences to include St. Joseph’s Health Centre and Humber River Regional Hospital. These locations add a new dynamic to our clerkship and are the result of Dr. Yaron Shargall’s hard work.

The 2009-2010 academic year saw significant planning for the implementation of the new clerkship curriculum which commences in September of 2010.

Some of the major upcoming curricular changes include:

1. A reduction in the length of the Surgical Clerkship from two 6-week rotations to a single 8-week experience.
2. The implementation of a combined Medicine-Surgery OSCE, run centrally by the Faculty of Medicine.
3. The elimination of phase I and phase II rotations with completion of all rotations, by all students, prior to the CaRMS period. The latter portion of the fourth medical school year will be focusing on synthesis of information and performance of “selectives.”

The Department of Surgery Undergraduate Education Committee (UEC) has altered the surgical curriculum to accommodate the changes mandated by the Faculty of Medicine. All changes were approved by the Chairman’s Senior Advisory Committee this past academic year.

**CURRICULUM**

1. The “Crash Course in Surgery” will remain part of the curriculum and will continue to occur during the first week. This provides an excellent opportunity for orientation and introduction to fundamental skills and seminars.

2. Following the Crash Course, students will then perform three sub-rotations. This will include a chosen two-week rotation followed by another two-week rotation and end with a three-week rotation. Students will continue to have input into their choice of rotation and the Surgical Education offices will do their best to accommodate. Having a final three-week rotation will help offset lost clinical time which inevitably occurs during the examination week.

3. General Surgery will remain a mandatory rotation. It was the opinion of the UEC that there are certain experiences that the General Surgery rotation most reliably provides. These experiences include fluid and electrolyte imbalance management as well as other critical areas. Therefore, one of the 3 sub-rotations will be mandated to include General Surgery.

**EVALUATION**

1. **Performance-based examination:** The Surgical Clerkship will utilize an expanded structured oral examination. This will be run with 4 stations and 2 examiners per station as follows:
   - Observed Directed History & Physical Examination (20 minutes)
   - Structured Oral Question 1 (20 minutes)
   - Structured Oral Question 1 (20 minutes)
   - Structured Oral Question 1 (20 minutes)

2. The “written” MCQ examination will consist of the NBME shelf exam. This exam is highly studied, psychometrically valid and different for each iteration. This examination has been in use by our Department as a supplement to our in-house examination for 6 years and has been very successful.

3. The clinical, ward evaluation will remain unchanged.

Undoubtedly, challenges will be encountered with such extensive change underway. However, with the patience and dedication of our faculty and residents, the Surgical Clerkship will continue to provide superb training for our medical students.
2009-2010 marked my inaugural year in assuming the role as Director of Continuing Medical Education (CE) for the Department of Surgery.

CE is an integral part of what we, as surgeons, do on a weekly basis. That is to teach our peers and ourselves on an ongoing basis, be it through weekly rounds, short courses, workshops, skills sessions and formal academic society meetings.

The members of this Department have continued to be extremely productive in the organization and in the implementation of a multitude of formal CE events. Most of these events were run partly or completely through the Continuing Education and Professional Development office of the University of Toronto Faculty of Medicine under the direction of Vice-Dean Ivan Silver. In total, the Department of Surgery hosted 17 courses including the Annual Update in General Surgery, Urology Update 2009, the Upper Extremity Update, The Annual Assembly of General Surgeons, 10th Annual Toronto Breast Symposium, the 40th Annual University of Toronto Symposium on Aesthetic Plastic Surgery and a multitude of others over the course of the past academic year. Registration totalled over 2,170 participants and faculty.

This past year marked the 26th year of the Upper Extremity Update chaired by Robin Richards and James Mahoney. This is one of the longest running formal CE events, chaired since its outset by the same individuals within our Department. Robin and Jim are to be congratulated for their dedication to organizing this multi-disciplinary event year after year.

All of the courses were successful; all had excellent levels of attendance. For some, such as the Breast Cancer Symposia chaired by Dr. J. Escallon, the demand has been so high that, going forward, they will be run as annual rather than bi-annual events.

Other courses were chaired by our faculty members, but were sponsored and/or accredited by organizations outside of the CEPD offices. These events include formal CE events as well as programmes within larger meetings such as Instructional Course Lectures, Symposia and Pre-Courses within the structured programmes of Specialty Society Meetings. It is difficult to estimate the number of such events, however they measure in the hundreds.

Over the next academic year, it is my intention to raise the profile of this Educational section of our Department. Almost all of us are involved in CE, as faculty, chairs or simply as members participating in a case-based discussion at weekly ward rounds. This involvement needs to be better recognized and highlighted as yet another major strength of the Department of Surgery at the University of Toronto.
This past academic year saw a number of changes that will carry the Division forward in future years. Dr. Cindi Morshead was recruited as the new Chair of the Anatomy Division. Professor Morshead completed her Ph.D. in the Department of Anatomy and Cell Biology at the University of Toronto in 1994. Following postdoctoral training at the University of Calgary, she joined the Division of Anatomy in 2000. She is known internationally for her expertise in neural stem cell biology, and she leads a very active lab group including 3 MSc students, 3 PhD students, 2 Postdoctoral Fellows, and numerous senior undergraduate project students. She is a highly innovative and successful educator, and has taught Gross Anatomy and Neuroanatomy to students in Arts and Science, Radiation Science, Physical Therapy, and Medicine. Dr. Morshead will begin her term as Chair on January 1, 2011.

Dr. Hong-Shuo Sun was recruited to join the Division as an Assistant Professor in the tenure stream. Dr. Sun received his MD from Sun Yat-Sen University and his PhD from the University of Calgary, and followed this with postdoctoral training under the supervision of Michael Tymianski and John MacDonald at the Toronto Western Hospital Research Institute. His research focus is the role of ion channels in neuroprotection against cerebral ischemia and stroke. He is the winner of the Marlene Reimer Brain Star of the Year Award for 2010 from the Canadian Institutes of Health Research (CIHR), Institute of Neurosciences, Mental Health & Addiction (INMHA). Dr. Sun will begin his appointment on July 1, 2010.

The Anatomy component of the Structure and Function course for the first year medical class underwent substantial revision this past year. It was extended from 11 to 16 weeks which had the effect of decompressing the content, creating a more satisfactory learning experience for the students. In addition, a series of ‘surgical anatomy’ lectures was introduced into the course. These lectures were organized by Dr. Darlene Fenech and given by surgeons including Drs. Darling, Di Pasquale, Dueck, Fenech, Nam, Rotstein, Simone, Stotland, and Whelan. Based on the course reviews, these were definitely a highlight of the course for the students and they will undoubtedly raise awareness and interest in surgical residency programs. In the coming year, the ‘One Day Matters’ program will be introduced to the medical students during the Structure and Function block. ‘One Day Matters’ is an opportunity for first year students to shadow in General Surgery for a full day.

In response to enrolment increases, the Division created an additional teaching lab space and, in order to meet the shift to greater emphasis on digital media in anatomical education, four iMac workstations, connected to the internet, were installed in each of our 12 dissecting rooms.

The Division continues to be active in graduate supervision with 2 students completing Master of Science programs and 1 student completing a Doctoral program in the Division this past year. There are currently 3 students in master’s programs and 5 in doctoral programs under supervision of faculty in the Anatomy Division.

HONOURS AND AWARDEES

Dr. Ian Taylor won the E. Mary Hollington Award for teaching with distinction in the preclinical or basic science portion of the medical curriculum. This is the 13th time Dr. Taylor has won this award. Dr. Wiley won the Harry Whittaker Memorial Teaching Award, the Aikins Award for Large Group Teaching, and the President’s Teaching Award. Wenjun Xu, a graduate student in the Master of Science program under the supervision of Dr. Cindi Morshead, was awarded the James H. Richardson Fellowship in Anatomy; and Kate Sauks, a doctoral student under the supervision of Dr. Anne Agur, was awarded the Harland-Smith Research Fellowship in Anatomy.
Osman Al-Radi was promoted to Assistant Professor of Surgery.

Christopher Caldarone was promoted to Professor of Surgery.

Gideon Cohen was promoted to Associate Professor of Surgery and was appointed as the Program Director for the Cardiac Surgery Residency Program.

Stephen Fremes was selected as the inaugural recipient of the Dr. Bernard S. Goldman Chair in Cardiovascular Surgery.

Bernard Goldman was appointed a member of the Order of Canada.

David Latter was appointed Interim Chair of the Department of Surgery and stepped down from his role as the Program Director after a superlative tenure.

Vivek Rao was promoted to Professor of Surgery.

Hugh Scully received the Canadian Cardiovascular Society Annual Achievement Award 2010.

Subodh Verma was named one of Canada’s Top 40 Under 40 for 2009. Dr. Verma was elected as the co-winner of the 2010 Silver Shovel Chute Award. Dr. Verma also received the George-Armstrong Peters Prize for Research at Gallie Day 2010. Additionally, Dr. Krishan Singh, under the supervision of Dr. Verma, received the 2009 Vivien Thomas Young Investigators Award from the American Heart Association for their work elucidating the role of the tumor suppressor gene BRCA1 as a regulator of endothelial dysfunction and atherosclerosis.

Richard Weisel received the 2010 AATS Scientific Achievement Award which represents the most prestigious scientific award bestowed by the AATS.

Terrence Yau was promoted to Professor of Surgery.

Matthew Howard, Chief of the Division of Neurosurgery at the University of Iowa, presented the Bigelow Lecture “From the Brain to the Heart: A Technology Transfer Story” on October 2, 2009.

Keith Horvath, Director of Cardiothoracic Surgery Research at the National Heart, Lung and Blood Institute and Chief of Cardiothoracic Surgery at the National Institutes of Health Heart Centre presented “Stem Cell Therapy and Transmyocardial Laser Revascularization: Is There Synergy?” during the University Rounds on November 20, 2009.

Eugene Blackstone, Director, Clinical Investigations Cleveland Clinic’s Heart and Vascular Institute presented ‘A Learning Healthcare System: Infrastructure To Make It Work’ at the March 26, 2010 University Rounds.

Mitesh Badiwala received second prize in the Gallie-Bateman Competition at Gallie Day 2010.

Edward Hickey received the Postgraduate Medical Trainee Leadership Award from the University of Toronto.

Gilbert Tang received the Canadian Cardiovascular Society 2010 Trainee Excellence in Education Award. Dr. Tang also received Residents Research grant awards from The Physicians’ Services Incorporated Foundation under the supervision of Dr. Verma. Additionally, Dr. Tang successfully completed his RCPSC examination.

Bobby Yanagawa was the 2010 recipient of the AATS Lillihei Research Award. Dr. Yanagawa also received Residents Research grant awards from The Physicians’ Services Incorporated Foundation under the supervision of Dr. Verma.

Surgical Skills Sessions: A summer skills course has been established with the goal of providing junior residents additional practice in basic surgical skills. These sessions run bi-weekly throughout the summer in the Surgical Skills Centre at Mount Sinai Hospital. Using anatomical models, the specific objectives include gaining skill in coronary anastomoses, aortic tube graft placement, closure of atriotomy/aortotomy, and aortic valve replacement. These sessions will be supervised by Dr. Fuad Moussa, staff surgeon at SHSC. Drs. Gilbert Tang, Jack Wallen and Bobby Yanagawa are responsible for the planning and organization of the sessions. Generous corporate sponsorship has been provided by Sorin Group, St. Jude Medical, and Covidien.

On January 17, 2010 the Division lost one of its members. Dr. Shafie Fazel was respected and admired as a uniquely
gifted surgeon and his dedication and insights as a scientist identified him as a resident destined to make important contributions to our field. Perhaps more importantly, he was cherished as a colleague and friend. Few could balance his commitment to his patients and research with his devotion to his family and friends. He inspired us and will be remembered with respect.

GRANTS

**Stephanie Brister** holds a Canadian Institutes of Health Research grant.

**Christopher Caldarone** holds two Heart and Stroke Foundation of Ontario grants, a LeDuq Foundation grant, a Children’s Heart Foundation grant, and administers the CHSS Datacenter with a budget of $260,000 per annum.

**John Coles** continues to hold two Heart and Stroke Foundation of Ontario grants and a Canadian Institute of Health Research grant.

**Gideon Cohen** was awarded two Cardiothoracic Surgery Network (NIH/CIHR) grants for “Mitral valve repair versus replacement for functional mitral regurgitation. A multicentre trial” and for “Coronary bypass surgery alone versus coronary bypass surgery plus mitral valve repair for moderate ischemic mitral regurgitation. A multicentre trial.”

**Christopher Feindel** holds two Heart and Stroke Foundation of Ontario grants.

**Stephen Fremes** was awarded a Canadian Institutes of Health Research grant for “Steroids in Cardiac Surgery.” Dr. Fremes continues to hold a National Heart, Lung and Blood Institute grant, two additional Canadian Institutes of Health Research grants, a CANNeCTIN grant, and a Schering-Plough Research Institute grant.

**Vivek Rao** was awarded a Heart and Stroke Foundation of Canada grant for “EGFL-7, Rapamycin and transplant vasculopathy.”

**Glen Van Arsdell** was awarded a Heart and Stroke Foundation of Ontario grant for “Mechanical lung assist as a means to achieve primary in-series palliation for single ventricle neonates: a proof of concept study in neonates and infants.” Dr. Van Arsdell continues to hold three additional Heart and Stroke Foundation of Ontario grants.

**Subodh Verma** was awarded a Heart and Stroke Foundation of Ontario grant for “Neuregulin-1 as a novel treatment for endothelial dysfunction and atherosclerosis.” Dr. Verma was also awarded two Canadian Institutes of Health Research grants for the “Role of the tumor suppressor gene BRCA1 in adverse cardiac remodeling” and for “Evaluation of BRCA1 as a novel therapeutic strategy for endothelial dysfunction and atherosclerosis.” Dr. Verma continues to hold two additional Heart and Stroke Foundation of Ontario grants and one Canadian Institutes of Health Research grant.

**Richard Weisel** continues to hold two Heart and Stroke Foundation of Ontario grants and one Canadian Institutes of Health Research grant.

**Terrence Yau** was awarded a Heart and Stroke Foundation of Ontario grant for “Electrophysiological implications of regenerative therapy” and a Heart and Stroke Foundation of Canada grant for “Advance targeted transfusion in anaemic cardiac surgical patients for kidney protection.”
The Division of General Surgery continues to grow and develop. There has been significant accomplishment in all realms of academic endeavour including clinical care, research and education.

**DIVISIONAL GROWTH AND DEVELOPMENT**

New full-time faculty joined our ranks at our University affiliated hospitals. Timothy Jackson bolstered the ranks of the MIS program at UHN, Jean François Boileau joined the breast cancer surgery team at Sunnybrook Health Sciences Center and Shiva Jayaraman joined Richard Hart at St. Joseph’s Health Centre as that unit became the 3rd centre of excellence for hepatobiliary surgery in Toronto.

Importantly, a number of adjunct and part-time appointments have been made at community-based hospitals that have formally joined the academic enterprise of the University of Toronto, Faculty of Medicine. Adjunct faculty appointments for this academic period included Peter Dauphinee (Royal Victoria Hospital), Norm Hill, Don Munnings, Mark Pope, Joe Wen (Trillium Health Centre) and Mark Taylor at the Lakeridge Health Centre. Peter Stotland joined as an Assistant Professor (part-time) at North York General Hospital. These appointments are important in the Faculty’s development of integrated medical education.

Developments in education span the entire educational spectrum. The Division continues to expand its impact on the “early years” class in the medical school. Darlene Fenech has assumed the role of Course Director of the new second year medical school course, *Mechanisms, Manifestations and Management of Disease*. Furthermore, the *One Day Matters* program has been vigorously embraced by General Surgery faculty. One hundred and one (101) first year students had an opportunity to participate in this program in 2009-10 that allows students to gain exposure to General Surgery by positioning them in the operating room with active faculty.

The General Surgery Residency program proudly graduated the following newly minted surgeons:

Abdurrezagh Abujazia  
Fayez Quereshy

Shady Ashamalla  
Alia Qureshi

Gus Azoubel  
Jensen Tan

Karen Devon  
Andreas Tassis

William Johnson  
Patrick Tawadros

Nicole Look Hong  
Monica Torres

Sabrena Noria  
Max Seddigh

In addition, the Division welcomed new trainees at the PGY1 level. The new residents come from diverse medical schools:

Solomon Azou (University of Texas Medical School, San Antonio, Texas, USA)  
Balisi Bakanisi (University of Zimbabwe)  
Hunter Cape (University College, International Medical School, Dublin, Ireland)  
Emily Claydon (University of Western Ontario, Canada)  
Laurie Fasola (Universidad Central de Venezuela, International Medical School, Caracas, Venezuela)  
Eleanor Fung (University of Toronto, Canada)  
Pawan Kumar (International Medical School, Mumbai, India)  
Debbie Li (Dalhousie University, Canada)  
Marisa Louridas (University of Manitoba, Canada)  
Jennifer Muir (University of Toronto, Canada)  
Ashlie Nadler (University of Toronto, Canada)  
Armen Paraghamian (University of Western Ontario, Canada)  
Chetham Sathya (University of Toronto, Canada)  
Matt Strictland (Northern Ontario School of Medicine, Sudbury, Ontario, Canada)  
Elliot Wakeam (Jefferson Medical College of Thomas Jefferson University, Philadelphia, USA)  

The General Surgery residency program continues to develop under the leadership of Najma Ahmed. Najma and her team have done an outstanding job of continually molding the structure of the residency and increasing the rigor of the component parts of the training program. Much of this has involved adding modules that augment the educational experience of the various rotations in our hospitals.

The seven fellowship programs in the General Surgery division continue to mature and are becoming more structured and integrated across the University. Dr. Paul Greig has assumed the leadership of the General Surgery Fellowship Council and the leaders within the various fellowships have worked towards consolidating common structures of the fellowships to strengthen the impact of fellowship programs.
The wide array of continuing education courses offered through the division is noteworthy. Courses, both large and small, increasingly reach across the entire city and beyond in their impact. For example, John Hagen and the MIS surgeons in Toronto have developed well attended recurring courses; monthly City-Wide MIS rounds and Bariatric rounds approximately six times per year. The Update Course in General Surgery celebrated its 50th anniversary in April 2010 with a record of 530 registrants. Finally, the CE offerings developed by our trauma colleagues are increasingly multidisciplinary and multi-institutional in the contribution of surgeons from our two major trauma centres, St. Michael’s Hospital and Sunnybrook Health Sciences Centre. This reflects an ongoing trend towards multi-institutional input into our academic enterprise in the Division of General Surgery.

Finally, a highly notable change in the Department is the departure of Dr. Richard Reznick who proudly hailed from the Division of General Surgery. Dr. Reznick went on to become the Dean at Queen’s University on July 1, 2010.

ACCOMPLISHMENTS

Accomplishments in the Division are numerous and are well articulated in the summary attached to each of the hospital departmental reports in this volume. As the department celebrated 25 years of the success of the Surgeon Scientist Program, General Surgery continued to have a robust presence within the surgical scientist training program. SSTP residents in General Surgery participated in a variety of labs with wide-ranging areas of expertise. A summary of lab investigators in the Division of General Surgery can be found on our website at http://generalsurgery.utoronto.ca

Fourteen general surgical trainees, six of whom are pursuing PhDs, are in the SSP as of July 1, 2010. Importantly, three graduates of the SSP rejoined the clinical stream. They include:

- Greco, Elisa F. MEd
- Wells, Bryan J. MSc
- Yang, Simon MSc

General Surgery faculty promotions include Najma Ahmed of SMH, Andrea McCart of MSH and Ian McGilvray of UHN-TGH who all became Associate Professors; John Hagen of the Humber River Regional Hospital ascended to the rank of Assistant Professor.

Several awards were garnered by General Surgery faculty over the past year. A full list can be seen in the Departmental reports in this volume but some are noted below:

- Coburn N GIRT Levy/Thomson Award for Outstanding Poster Presentation
- Law CHL Peters Boyd Academy Clinical Teaching Award
- Rizoli S 2009 American Congress of Rehabilitation Medicine Best Paper Award
- Moulton CA Abstract of Distinction, by the International HPB Association; and Paper of Distinction, by the Association of Surgical Education
- McGilvray I Glenn Hillson Award
- Reznick RK Charles Tator Surgeon Scientist Mentoring Award
- Selzner M American Society of Transplant Surgeons Faculty Development Award
- Langer, J Pediatric Surgery Resident Teaching Award (Postgraduate)
- Wales P Best Clinical Paper, 41st Annual Canadian Association of Pediatric Surgeons
- Ahmed N Nominee, RCPSC Best Program Director
- Ali J Diaspora Award for Excellence in Medicine (Consul General Trinidad & Tobago)
- Bohnen J Donald J. Currie Undergraduate Teaching Award (St. Michael’s Hospital)
- Mustard RA Tovee Award for Undergraduate Teaching for 2002/2003
- Cohen Z Long Standing Achievement in IBD Research, University of Toronto, Division of Gastroenterology
- Gladdy RA Bernard Langer Surgeon Scientist Award, University of Toronto
- McLeod RS Robert W. Beart 2009 Impact Paper of the Year Award
- Swallow CJ First Prize, McMurrich Award
- Bernick PE TEGH Chief of Staff Choice Award in Research Leadership
- Moulton CA Abstract of Distinction, by the Association of Surgical Education

Finally, it is noteworthy that this volume shows a total of 311 publications that come forth from General Surgery faculty.

The 33rd Annual Assembly of General Surgeons, held on May 27, 2010, was an extraordinary success. The Assembly highlights the scientific and academic achievements of the division as well as celebrates the graduating resident class. Dr. Murray Brennan from Memorial Sloan Kettering Cancer Center in New York was the E. Bruce Tovee Lecturer and highlighted a day that featured the theme of "Mentorship" and also the history of our Division of General Surgery. The division has existed since 1967 and has developed considerably in the intervening years. Today the General Surgery faculty is comprised of 109 surgeons working at six fully affiliated and four partially affiliated hospitals. Divisional growth has increasingly helped us to meet our societal mandate in research and training of new surgeons.

Many metrics attest to the individual excellence that abound in the division but it should be highlighted that we are at our best, and will have the most impact, when we stretch ourselves to optimally harness all the expertise in the Toronto-wide division and work as a U of T-wide team. There is evidence that the trend towards collaborative endeavour between hospitals is increasing in research, in education programs and in clinical service delivery. One example is highlighted below.
BEST PRACTICES IN GENERAL SURGERY (BPiGS)

Our Division continues to be committed to the BPiGS initiative, now into its 4th year. Led by Robin McLeod and champions at each of our hospitals, this initiative seeks to harness our academic expertise in clinical epidemiology and guideline development as well as in stretching our ability to transfer knowledge and catalyze quality improvement in important areas that affect patients in all our hospitals. The goal is to achieve world class quality, consistently, in all of our 10 institutions. The concept is that this can best be achieved if we in the Division collaborate on achieving the goal. To support this goal, hospital administrators have been asked to "sign on" to the BPiGS initiative and adopt BPiGS as their guide to QI around key issues such as SSI, VTE and more. The hope is to get all the U of T hospitals aligned around this common approach to quality. At the time of writing this, several hospitals have committed to supporting BPiGS and this is evidence of increasing connection between our U of T hospitals.
RESIDENT ACHIEVEMENTS

ROYAL COLLEGE EXAMINATIONS

Fellows of The Royal College of Surgeons of Canada (FRCSC): Dr. Hussein Al-Ahmadi, Dr. Merdas Al-Otaibi, and Dr. Ratan Bhardwaj.

RESIDENT RESEARCH AWARDS (INTERNATIONAL/NATIONAL)

Several residents received externally funded fellowships and awards during the year:

David Cadotte - 2009-10 Codman Neurotrauma Fellowship Award; Resident/Fellow Research and Education Grant from the Cervical Spine Research Society;

D.J. Cook - 2009 Physicians Services Incorporated (PSI) Resident Research Prize; Synthes Cerebrovascular Section Resident/Fellow Award, American Association of Neurological Surgeons (AANS)

Greg Hawryluk - 2010 Synthes Resident Spine Award

Zul Kaderali - abstract for the Congress of Neurological Surgeons meeting in San Francisco ranked among the top ten submitted

Betty Kim - overall top honors in 2010 neurosurgical Top Gun Competition, AANS

Carlo Santaguida - Codman Neurotrauma Fellowship

Demitre Serletis - top honor for bone scalpel station at 2010 neurosurgical Top Gun Competition, AANS

Shobhan Vachhrajani - CIHR Fellowship

Scellig Stone - KG McKenzie Memorial Prize for Basic Science Research

RESIDENT RESEARCH AWARDS (UNIVERSITY OF TORONTO)

D.J. Cook - first prize Gallie-Bateman Award for best resident research paper and presentation; Cerebrovascular Disease Award from the Section on Cerebrovascular Surgery of the AANS/CNS;

Ryan DeMarchi - AR Hudson Annual Resident Teaching Award

George Ibrahim - first place, Horsey Prize

Greg Hawryluk - second place, Horsey Prize

Betty Kim - 2010 Sopman Humanitarian Award

Demitre Serletis - Award for Best Poster Presentation, University of Toronto’s Annual B.R.A.I.N. Neuroscience Research Day

Scellig Stone - first place, Morley Prize

Adrienne Weeks - second place, Morley Prize

Shobhan Vachhrajani - Warren Ho Memorial Scholarship

Kathryn Howe - Neurosurgery Literary Award

FACULTY ACHIEVEMENTS

HONOURS AND AWARDS

Leo da Costa - cross-appointed to the Department of Radiology at Sunnybrook Health Sciences Centre; Canadian Stroke Network grant

Michael Cusimano - 2-year grant from PSI; 5-year CIHR Strategic Team Grant in Applied Injury Research Study

Peter Dirks - Farber Lecturer, Society of Neuro-oncology

Michael Fehlings - Trustee of the AO Foundation; 3-year grant from CIHR; Associate Editor of the Journal Neurosurgery; 1-year grant from CIHR; North American Spine Society [NASS] 2009 Research Grant; North American Spine Society’s 2009 Leon Wilse Award; 3-year grant from CIHR; funding for 5 years for the NeuroDevNet Network Center of Excellence [NCE]; 2009 Olivecrona Award, 1-year Mentor-Trainee-New Investigator Award in Spinal Cord Injury Research, Ontario Neurotrauma Foundation; NCE award; Vice-President and President-Elect of the Cervical Spine Research Society; The Spinal Cord Injury Solutions Network grant; funding from Tyco Healthcare Group LP; Editorial Board of Evidence-Based Spine-Care Journal as the Deputy Editor Clinical Sciences; Hansjorg Wyss Foundation Award; 2-year grant from PSI; two-year AOSpine North America Fellowship Award.

Ab Guha - 3-year CIHR Grant; 1-year grant from Novartis; 1-year grant from B.R.A.I.N Child; funding from Novartis; Schering-Plough Canada Unrestricted Educational Grant; 5-year Grant from the Canadian Institutes of Health Research; 3-year OICR Grant; 5-year Canadian Cancer Society Research Institute Grant.
Clement Hamani - board member of the American Society for Stereotactic and Functional Neurosurgery
Moji Hodaie and Karen Davis - grant from The PSI Foundation
David Houlden - first President of the Canadian Association of Neurophysiological Monitoring.
Abhaya Kulkarni - Associate Editor for Neurosurgery
Andres Lozano - Fellow of the Royal Society of Canada 2009; 2009 recipient of Donald Calne International Award for Parkinson’s Disease Research; 2010 Hunt Wilson Lecturer, AANS
R. Loch Macdonald - grant from the PSI Foundation; Editorial Board of World Neurosurgery; 3-year grant from the New Jersey Commission on Science and Technology Edison Innovation R&D Fund
Eric Massicotte - two-year AOSpine North America Fellowship Award.
Jim Rutka - Honoured Guest, The Congress of Neurological Surgeons’ Annual Meeting; 5-year Grant from CIHR; President, American Association of Neurological Surgeons; Board of Directors, Canadian Cancer Society; President-Elect, American Academy of Neurological Surgery
Michael Taylor - Board of Directors, The Society for Neuro-Oncology; Canadian Cancer Society Award for Excellence in Cancer Research; Central Nervous System Tumor Disease Committee, Children’s Oncology Group (COG); Associate Section Editor (Pediatrics), for Neurosurgery; 3-year grant from the Canadian Institutes of Health Research; Gold Medal Award in Surgery, 2010 from The Royal College of Physicians and Surgeons of Canada; 5-year renewal from the CIHR, Clinician Scientist Phase II Award; Chair, Young Investigators Committee, Society for Neuro-Oncology
Charles H. Tator - Canadian Neurosurgical Society’s Lifetime Achievement Award from the Canadian Neurological Science Federation Congress
Michael Tymianski – 2 grants from the Heart and Stroke Foundation of Ontario
Taufik Valiante - 3-year operating grant from CIHR.
Chris Wallace - President of the Canadian Neurosurgical Society.
Gelarzeh Zadeh - BrainCHILD grant; Canadian Brain Tumor Foundation grant; neurosurgery representative on NCIC-Clinical Trials Group for CNS site; Neurosurgical Representative on CBTC-net

**U OF T NEUROSURGERY INVITED LECTURESHIPS**

Dr. Chris Getch, Northwestern University, Chicago. Annual Chairman’s Canoe Trip Visiting Professor
Dr. Daniel Barrow, Emory University, Atlanta. Botterell Lectureship
Dr. James Fawcett, Cambridge University Centre for Brain Repair. Charles H. Tator-Barbara Turnbull Lectureship
Dr. Anil Nanda, LSU Health Sciences Centre, Shreveport, Louisiana. Keith Lectureship
Mr. William Harkness, Great Ormond Street Hospital, London, England. Hendrick Lectureship
Dr. Michael Avidan, Washington University in St. Louis. Annual Marshall Lecturer
Dr. Ed Benzel, Cleveland Clinic. U of T SpineFest Visiting Professor
Dr. William Harkness, Great Ormond Street Hospital. E. Bruce Hendrick Lecturer

**CITY-WIDE ROUNDS**

Dr. Chris Shaffrey, University of Virginia. Toronto Western Hospital
Dr. Fady Charbel, University of Illinois. St. Michael’s Hospital

**COURSES OFFERED AT THE SURGICAL SKILLS CENTRE**

Lougheed Microvascular Course. Dr. Max Findlay, October 5-9, 2009
Lougheed Microvascular Course. Dr Howard Lesiuk, University of Ottawa, March 22-26, 2010

**Publications by neurosurgery faculty and residents:** 255

**Visiting Professorships by U of T Faculty:** 152

**PROMOTIONS**

Eric Massicotte, to Associate Professor in the Department of Surgery, University of Toronto
Michael Taylor, to Associate Professor in Department of Surgery, University of Toronto
William Tucker, to Full Professor in the Department of Surgery, University of Toronto
Our divisional faculty members identified a focus on working together to develop innovations in research, education, and clinical care, as our priorities during our divisional strategic planning session four year ago. I am delighted to report that this past year saw concrete results from our focus on these priorities.

In the education realm, we completed the first year of our competency-based curriculum. This pilot program, approved by The Royal College of Physicians and Surgeons of Canada, and funded by the Ontario Ministry of Health and Long Term Care is the only entirely competency-based residency training program that we are aware of in the world. Peter Ferguson, our Associate Program Director; Bill Kraemer, our Program Director; and Connie Johnson, the Administrative Coordinator, as well as all of the module leaders for the program, have done a phenomenal job in running this for its inaugural year. By all measures this program has been a phenomenal success, with residents in the program achieving levels of competency in a single year that would have taken several in the traditional stream. Some of the components have been so overwhelmingly successful, such as the initial module that we are planning to incorporate this into our training program for all residents. Our second cohort of trainees entered the program this year, and we are looking forward to reporting our results of this very innovative educational program.

In the clinical realm, we formalized our sports program, and Darrel Ogilvie-Harris was selected as its interim head. This program united clinicians from several of our hospitals and encouraged shared clinical resources for outpatient care at Women’s College Hospital towards the development of an innovative comprehensive sports clinical, education, and research program. Sports now join Spine, Foot and Ankle, and Hand as formal programs within our University framework.

Our academic footprint is a measure of how we impact orthopaedics internationally. It is a measure of the impact of our publications, the number of our trainees who have developed successful academic careers outside of Toronto, and how our work improves the outcome for the patients we treat. We have one of the world’s largest academic footprints, having ranked third in the world in peer-reviewed publications last year, and this accomplishment is in no small part due to our strong focus on research.

Sevan Hopyan and Cari Whyne, as Co-Chairs of our research committee, have done a fabulous job overseeing and mentoring the residents who entered their integrated research and clinical year. Their participation in this novel combined clinical and research training program has facilitated the ability of our trainees to participate in high-level research, resulting in an overall increase in our research productivity. As evidence of this, Ali Zahrai received the JA Nutter Award for best paper presentation at the Canadian Orthopaedic Residents Association meeting. His paper had a title “Quality of life and educational benefit among orthopedic surgery residents: a prospective, multi-centre comparison of the night float and the standard call systems.”

The past several years have seen the development of new technologies and research paradigms that have improved the quality and clinical applicability of our research work. These developments are associated with growth in the size of the biomedical research community and the expense of undertaking high quality research studies. Indeed there has been tremendous growth in the Toronto research community over the past decade. Unfortunately, national research funding has not kept pace with the increased costs associated with undertaking this high quality research. Despite these challenges, we continue to attain research funding at a high level, with funds totaling more than $6,000,000.

We welcomed two new recruits this academic year, Kellie Leitch and Lucas Murnaghan. Both are pediatric orthopaedists. Lucas has a clinical practice focused on pediatric sports and an academic focus on education. Kellie has a genetic pediatric practice, but a special interest in cerebral palsy, and an academic focus on medical leadership development and public service, and advocacy. We all welcome Kellie and Lucas to our faculty.

Congratulations to our faculty who were successful at academic promotion this year at the university. Nizar Mahomed was promoted to full Professor; and Steve Lewis was promoted to Associate Professor. Also thanks to our division member, Robin Richards, who chairs the Departmental Promotions Committee.

Our members received a number of awards on Gallie Day this year. Ali Zahrai (supervised by Valerie Palda, Aileen Davis, and Albert Yee) received the Gallie Award – 3rd prize for his work on “The development of a preliminary preoperative education tool for patients undergoing lumbar microdiscectomy utilizing multiple stakeholder interviews.” Rashid Jinnah received the D.R. Wilson Award, as the surgical resident rated by undergraduate students for being an outstanding teacher. Richard Holtby received the Surgical Skills Centre Distinguished Educator Award, which recognizes an individual who made exemplary, innovative
contributions to teaching and learning in the Surgical Skills Centre over the past year.

Our Graduation Day Visiting Professor was John Healey, Chief of Orthopaedic Oncology Service at Memorial Sloan-Kettering Cancer Center and Professor of Orthopaedic Surgery and Vice-Chair, Department of Surgery, Weill Medical College of Cornell University. He gave a fabulous and very insightful talk on "Oncologic and Functional Treatment of Osteogenic Sarcoma: An Orthopaedic Success Story" as his Salter lecture. Graduating residents presented their research work during the main Graduation Day activities.

The Lawson Award for best academic resident, as adjudicated by a committee, went to Isaac Moss, and the Meisami Award for most compassionate resident, as selected by faculty, went to Rashid Jinnah. The R.I. Harris Award for the best presentation during Graduation Day went to Isaac Moss, and the Bob Jackson Award (for the best sports medicine talk) and the Canadian Back Institute Award (for the best spine talk) went to Jas Chahal and Mehdi Sadoughi, respectively. The James Waddell Award for the best PGY 4 resident was awarded to Om Sharma. Danny Whelan received the Divisional Award for Best Teacher as selected by the residents.

Bill Maloney (Stanford University School of Medicine), Brian Snyder (Boston Children’s Hospital), Jed Davies (Faculty of Dentistry, U of T), Paul Tornetta (Boston Medical Center), Mark Myerson (Mercy, Mercy Medical Center, Baltimore, MD), John Healey, Arlen Hanssen (Mayo Clinic Rochester, Minnesota) and Dave Williams (McMaster University and Canadian Space Agency astronaut) all visited Toronto this year and gave University-wide grand rounds.

There were a large number of awards that our faculty received this past year. These are too many to mention here, and they are listed elsewhere in this annual report. Our faculty members received three University-wide education awards: Bill Kraemer, the Award for Excellence in Postgraduate Medical Education; Peter Ferguson, the W.T. Aikins for Individual Teaching Performance (Small Group); and David Backstein, the Dean Chute Silver Shovel Award for excellence in overall clinical teaching in the undergraduate medical program.

Our division lost two members who were icons in orthopaedics this year. Robert Salter, past divisional chair and faculty member for more than 50 years, was the world’s most well known orthopaedic surgeon. He revolutionized the treatment of childhood dislocated hips, and pioneered the concept of applying basic science to improve clinical care. His classification system of children’s fractures is universally used worldwide. His support for the University and The Hospital for Sick Children, where he spent his entire career, was unwavering. He was still active in teaching and research up until a few weeks before his death.

In addition to his academic achievements, Bob was known for doing his best to help anyone who came to him with a problem. Bob Jackson was a pioneer in the use of arthroscopy for intrarticular procedures, and in the development of sports medicine. He worked at the western and then became head of the osteoarthritis and arthritis hospital (now part of Sunnybrook). He played a critical role establishing the Special Olympics in Canada and supporting this endeavor worldwide. He was the only physician that Sport Illustrated named as one of the most influential figures in sports. Although he did move to Dallas towards the end of his career, he had returned to Toronto after he retired from active clinical practice. We will miss both of these individuals who were exceptional role models and gave so much to our division, Toronto, Orthopaedics, and to the world.

The University of Toronto’s Division of Orthopaedic Surgery is continuing in its long history of excellence in clinical care, teaching, and research. Our faculty's renewed focus on innovation and integration has resulted in new education, research, and clinical advances. I am proud of how well our division members are working together to develop innovative new programs, which will undoubtedly increase our division’s academic footprint.
The Division of Plastic and Reconstructive Surgery has experienced continued growth and development over the past academic year. We are the largest academic Division of Plastic and Reconstructive Surgery in North America and have become the first choice for the world’s leading plastic surgery researchers, educators, clinicians, and students. Our faculty, alumni and trainees continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

RECRUITMENT

Marc Jeschke was appointed to the Department as Surgeon-Scientist and to the Ross Tilley Burn Centre as its Medical Director. Dr. Jeschke’s clinical interests include burn and critical care. Dr. Jeschke has been caring for burn patients and conducting research in the field of burns for nearly 20 years. The quality of his research is reflected by his funding and he was just recently awarded a grant from the CFI.

Greg Borschel was recruited to The Hospital for Sick Children as a Surgeon-Scientist. His clinical interests include pediatric hand, nerve and microsurgery. His research focuses on using tissue engineering and regenerative medicine to address peripheral nerve injuries. With Dr. Borschel establishing a basic science lab in peripheral nerve research, we will see a significant growth and development in this regard.

Tessa Gordon was recruited to The Hospital for Sick Children Research Institute as a Scientist and as a Professor within the Department of Surgery. Dr. Gordon will collaborate with Dr. Borschel in his research lab. This partnership will further strengthen our position as a leader in peripheral nerve basic science.

The Trillium Health Centre is our Division’s newest teaching site and will become a new community rotation site for our residents. I look forward to the Trillium group’s active participation in our Division as we grow our capacity to provide a community experience to our trainees. We welcome five new Adjunct Lecturers to the Trillium Centre, namely: Michael Weinberg (who is also the incumbent Chief of Plastic Surgery), Cory Goldberg, Zvi Margaliot, Morris Rebot and Frank Lista.

PROMOTIONS

David Fisher now holds the rank of Associate Professor.

FACULTY AND RESIDENT GRANTS

Marc Jeschke: Research endeavour entitled ‘Characterization of Burn-Induced Hepatic Apoptosis’ funded by an NIH grant for $1,912,500 over 5 years.

Cho Pang, Stefan Hofer, Toni Zhong: Research endeavour entitled ‘Hypoxic Post conditioning of Human Skeletal Muscle Against Reoxygenation Injury’ funded by a CHIR grant for $380,000 over 3 years.

Toni Zhong: Research endeavour entitled ‘The Use of Acellular Dermal Matrix in One-Stage Breast Reconstruction: A Randomized Controlled Trial’ funded by a USDAPS-PSEF (Plastic Surgery Endowment Fund) National Endowment grant for $50,000 over 18 months.


Jeff Fialkov: The Department of Defense Peer-Reviewed Orthopaedic Research Program (PRORP) Hypothesis Development Award supports his research entitled ‘Development of a Novel Method for Stabilizing Traumatic Craniofacial Injuries’ for U.S.$100,000.

Marc Jeschke: Shriners Grant SHG 8660 funds his research entitled ‘Assessment of Mechanisms of Improved Wound Healing and Protein Metabolism of Insulin in Severely Burned Patients’ for $350,000 per year from 2008-2010.

Shriners Grant SHG 8640 supports research endeavour entitled ‘Insulin Attenuates Inflammation and Hypermetabolism After Severe Burn Via Modulation of PI3K and the PI3K Signaling Pathway’ for $250,000 per year from 2008-2010.
Carl C. Sr. and Marie Jo Anderson Charitable Foundation funds ‘Design of Custom Made Skin from Cord Lining and Amniotic Stem Cells’ for $150,000 per year from 2008-2010.

CFI Leader’s Opportunity Fund application (Project # 25407), received $1 million in 2010.

NIH RO1 GM087285-01A2 grant supports ‘Characterization of Burn Induced Hepatic Dysfunction’ for $1.9 million over 5 years from 2010-2015.

Paul Binhammer: CREMS grant supports his research, ‘Three Dimensional Cartilage Thickness Mapping of the PIP Joint’ for $2750 in 2010 while ‘Impact of Psychosocial Factors and Treatment Choice on Return to Work in Carpal Tunnel Syndrome’ will receive AFSSH funding for $16,000 from 2009-2011.

James Mahoney: His research entitled ‘Effect of Breast Reduction Surgery on Indicators of Insulin Resistance: A Pilot Study’ [Neinstein R, Ray J, Mahoney JL, Musgrave M], was funded by a PSI Foundation grant for $4,500 from 2008-2009.

Canadian Society of Plastic Surgeons grant supported the research entitled ‘Effect of Breast Reduction Surgery on Indicators of Insulin Resistance: A Pilot Study’ [Neinstein R, Ray JG, Mahoney JL, Musgrave M], for $10,000 from 2008-2009.

Innovation Fund Ministry of Health grant funded the research entitled ‘Wounds and Surgical Site Infections: Development of Web Based Tool for Patient Education’ [Mahoney JL, Musgrave M], for $7,500 from 2009 - 2010.

Innovation Fund Ministry of Health grant also funded the research entitled ‘Innovation Proposal: Chiropody Rapid Response Service’ [Ray J, Sargeant R, Mahoney JL, Leiter L] for $63,000 from 2009 - 2010.


Karen Cross: Best Basic Science Award, Division of Plastic and Reconstructive Surgery. Received her Ph.D. Title of thesis: ‘Assessment of Tissue Viability in Acute Thermal Injuries using Near Infrared Point Spectroscopy’

Mary-Helen Mahoney: Mentor Canada Prize for Best Clinical Paper Award, Division of Plastic and Reconstructive Surgery.

Ryan Neinstein: Mentor Canada Prize for Best Clinical Paper Award, Division of Plastic and Reconstructive Surgery.

Karen Wong: Best Clinical Paper Award, Division of Plastic and Reconstructive Surgery. PSI Resident Research Grant for ‘CLEFT-Q: Development of a Patient-Reported Outcome Measure for Cleft Lip and Palate.’

**FELLOWS HONOURS/AWARDS/POSITIONS HELD**

Tatiana Cypel: Received this year’s McMurrich Award presented at Gallie Day held on May 7, 2010 for ‘In Vitro Assessment of Osteoblast Behavior in Craniosynostosis,’ supervised by Dr. Christopher Forrest and co-supervised by Dr. Cho Pang, Dr. Peter Dirks and Dr. Iona Leong.

Sean Marcy: Orthodontic Research Fellow and MSc Candidate in the Post-Graduate Program, Orthodontics, Faculty of Dentistry, under the supervision of Dr. Chris Forrest, received the Clinical Science First Place - Charley Shultz Resident Scholar Award at the American Association of Orthodontists Annual Meeting in Washington, for ‘Perceptions of Plastic Surgeons, Orthodontists and Laypersons to Altered Facial Symmetry.’

Laura Snell: Masters Degree in Biostatistics (MS), the Clinical Research Methods Track, at the Mailman School of Public Health, Columbia University. Her thesis project: ‘Clarifying Expectations for Breast Reconstruction: The Development of a New Patient Assessment Tool.’

**FACULTY HONOURS/AWARDS/POSITIONS HELD**

John Semple: Chair in Surgical Breast Cancer Research by the Canadian Breast Cancer Foundation – Ontario Region. The Chair is the first Surgical Research Chair awarded by the Canadian Breast Cancer Society, and also the first endowed Chair based in the Department of Surgery at Women’s College Hospital.

Cho Pang: Plastic Surgery Education Foundation Award for Outstanding Achievement in Basic and Translational Research. This award was established to recognize outstanding achievements in basic and translational research impacting the practice of plastic surgery. This prestigious award recognizes an investigator whose novel and significant work has had or may have a far-reaching impact on the treatment of surgical disorders and the practice of plastic surgery.
### Visiting Professors

**Christopher Forrest:** Arnis Freiberg Faculty Teaching Excellence Award, 2010.

**Oleh Antonyshyn:** William K. Lindsay Faculty Research Mentor Award, 2010.

**Stefan Hofer:** Appointed to Editor of the Journal of Plastic, Reconstructive and Aesthetic Surgery (JPRAS), formerly known as the British Journal of Plastic Surgery. Dr. Hofer is the first non-British Plastic Surgeon to hold this position.

**Ralph Manktelow:** Recipient of the 2010 CSPS Lifetime Achievement Award. This award honours members of the CSPS who have made an outstanding contribution in plastic surgery as well as to Society.

### 2010 Hoyle Campbell Visiting Professor

This year’s Hoyle Campbell Visiting Professor was Dr. Douglas Ross from Dalhousie University. Dr. Ross is a graduate of the University of British Columbia [BSc, MD]. He also holds a Masters of Education from the Ontario Institute for Studies in Education at the University of Toronto. He completed his plastic surgery training at the University of Toronto.

This was followed by two years of fellowship training in Toronto [Hand and Microsurgery] and in Louisville, Kentucky [Hand Surgery]. He has been a faculty member at the University of Western Ontario since 1992. He is Chair of the Division of Plastic Surgery at UWO, a staff member at the Hand and Upper Limb Centre at St. Joseph’s Health Centre, and co-Director of the Peripheral Nerve Clinic in London. He serves as Chief Examiner for The Royal College in Plastic Surgery and Director of Education for the Department of Surgery at the University of Western Ontario. His clinical interests include upper extremity surgery, reconstructive microsurgery and peripheral nerve surgery. He also has a strong interest in surgical education. We were honored that Dr. Ross accepted the invitation to visit Toronto and teach our Residents. He has maintained professional and personal contacts within our division and our residents have benefited from his wealth of clinical and educational experience.

### 8th Annual R.T. Manktelow Hand and Microsurgery Lectureship

This year’s Ralph T. Manktelow Hand Surgery Day was held on October 16, 2009. This year’s Visiting Professor was Dr. James Chang, Chief of Plastic and Reconstructive Surgery, Stanford University Medical Centre.

### 7th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

The 7th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery was held on Thursday, September 24th, 2009. Dr. Cindy Verchere from British Columbia was the Visiting Lecturer who spoke on The Acolyte Conundrum.

### Continuing Medical Education

The 10th Annual Toronto Breast Symposium was held on April 8, 2010 at the Sutton Place Hotel and welcomed Visiting Professors: Dr. William P. Adams Jr., Dallas, Texas; Dr. Bradley Bengtson, Grand Rapids, Michigan; and Dr. Elizabeth Hall-Findlay, Banff, Alberta. This was followed by the 40th Annual University of Toronto Symposium on Aesthetic Plastic Surgery held from April 9-10, 2010. Visiting Professors included: Dr. William P. Adams Jr. of Dallas, Texas as the University of Toronto Visiting Professor; Dr. Al Aly of Coralville, Iowa as the University of Toronto Aesthetic Visiting Professor and Dr. Jeffrey Kenkel of Dallas, Texas as the W.R.N. Lindsay Visiting Professor. Both symposia were well attended and the quality of the lectures was outstanding. This year marks Dr. Wally Peter’s final year as Chair of the Aesthetic Symposium. Dr. Peters has committed an enormous amount of time to organizing this symposium since its inception. The entire Division owes Dr. Peters a large debt of gratitude for his efforts in growing this meeting into one of the best annual aesthetic surgery meetings in North America.

### Division Firsts – Academic Education Retreat

One of the highlights for the past year was the Academic Education Retreat that was held and led by Dr. Mitch Brown on April 7, 2010. This represented a first for our Division. The teaching faculty retreated and worked on several important goals that included: establishment and development of an academic down day, review of our goals and objectives for each of the teaching hospitals, review of how we can better develop and integrate the CanMEDS roles into our curriculum, further expand and integrate our research goals within the curriculum and, finally, improve the way in which we evaluate our teaching effectiveness in each of the elements of the curriculum. This important retreat has brought about significant changes in our curriculum which will be of significant value to our trainees and also to faculty as we work towards maintaining excellence in breadth of training in plastic and reconstructive surgery.

### Royal College Fellowships

The following residents have successfully passed their RCPSC fellowship examinations: Glyka Martou, Vanessa Wong and Amir Mrad.

The Division of Plastic and Reconstructive Surgery at the University of Toronto remains a powerhouse of accomplishment in research, education and clinical service. I wish to thank our faculty for their hard work and on-going cooperation and collaboration during the past academic year.
The academic year 2009-2010 marked the culmination of years of effort by Dr. Keshavjee to build the Division of Thoracic Surgery into the pre-eminent Division in the world. It continues to have the largest clinical activity of any thoracic program in Canada. The three sites include Toronto General Hospital (TGH) and the community hospitals, St. Joseph’s Hospital and Toronto East General Hospital (TEGH). Residents have long enjoyed the community surgery experience at St. Joseph’s Hospital while this year marked the first year that the resident rotated through TEGH. The Toronto General site continues 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, performing over a hundred lung transplants a year. This year marked the opening of the Menkes Family Interventional Thoracic Surgery Suite at TGH for early diagnosis, staging and treatment of patients with lung and esophageal cancer. This includes modalities such as endobronchial ultrasound (EBUS), endosophageal ultrasound (EUS), photodynamic therapy, autofluorescence and narrow band imaging as well as endoscopic surgery. Drs. Darling, de Perrot and Waddell were recognized for their accomplishments in the field with membership in the American Association for Thoracic Surgery. Dr. Keshavjee’s leadership was recognized with election to the Council of the AATS. Dr. Waddell was promoted to Full Professor. Dr. Keshavjee was selected as the new Surgeon-in-Chief for the University Health Network.

**EDUCATION**

Drs. Christian Finley, Michael Ko, Salvatore Privitera and Shona Smith completed their training this year and have taken up clinical positions in Hamilton, Toronto, Newmarket and Sudbury. 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, Thoracic Surgery Residency Program Director and Dr. Andrew Pierre, Thoracic Surgery Fellowship Director. The FG Pearson Award for Best Resident/Fellow Teacher was awarded to Dr. Michael Ko. The RJ Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Shaf Keshavjee. The GE Darling Award for Excellence in Undergraduate Teaching was also awarded to Dr. Gail Darling. The 6th Annual Pearson Day was a tremendous success – highlighting the breadth of clinical and basic science research activity in the division. The Pearson Day Visiting Professor was Dr. Alec Patterson, Chief of Cardiothoracic Surgery, Washington University, St. Louis, Missouri.

**RESEARCH**

At Pearson Day, the award for Best Basic Science Paper was awarded to Dr. Masaaki Sato for his project entitled “Restrictive Allograft Syndrome (RAS): a novel entity of chronic graft dysfunction after lung transplantation” (supervisor, S. Keshavjee). The award for Best Clinical Research Paper was awarded to Dr. Michael Ko for his project entitled “MicroRNA in esophageal cancer samples pre and post-neoadjuvant chemo-radiotherapy” (supervisor, G. Darling). Overall, the clinical research activity of the Division remains very strong as the major Canadian contributor to multi-centre clinical trials and as developer of several innovative trials, including neoadjuvant therapies for lung, mesothelial, and esophageal cancers, and CT screening for mesothelioma and recurrent lung cancer. The Latner Thoracic Research Laboratories continues to be very successful with grant capture and publications. Drs Keshavjee, Liu, Waddell, de Perrot, Hwang (Pathology) and Yasufuku work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology. Dr. Waddell has been renewed for a second term as R. Fraser Elliott Chair in Transplantation Research and was awarded the newly created Heather and Richard Thomson Chair in Translational Research.
ACADEMIC PROMOTION

Dr. John Honey, Dr. Darius Bagli and Dr. Magdy Hassouna were promoted to Professor.

Dr. Kenneth Pace was promoted to Associate Professor.

HIGHLIGHTS

SICKKIDS

Dr. Joao Pippi-Salle continued as the Site Chief of Urology at Sick Kids.

He was an invited speaker, surgeon and Visiting Professor at many locations around the world. These included Saudi Arabia, Morocco, Brazil, Russia, United States, and Canada.

Dr. Darius Bagli continued his basic research in bladder diseases with projects funded by the Research Institute at Sick Kids (Determinants of carcinogenesis in bladder augmentation in a novel animal model), and CIHR (Novel therapeutic approaches for obstructive bladder disease), as well as a new grant from the Society for Pediatric Urology [Role of sex steroids in perioperative management of hypospadias] in which he is supervising Dr. Ahmed Haddad. He was also invited to lecture in Bethesda, MD; Washington, DC; Ann Arbor, MI; Syria, and locally.

He continued as Deputy Chief of Surgery at Sick Kids and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering with funded projects. He participated in projects funded by the Ontario Research Fund and Canadian Foundation for Innovation [Disruptive technologies in pediatric and fetal intervention] and the Center for Computer-Assisted Intervention and Innovation.

He organized and directed the Fourth Annual North American Pediatric Fellows Laparoscopy Course.

He was an invited speaker in Jordan and Napa Valley, California.

Dr. Armando Lorenzo continued his work in Clinical Epidemiology and minimally invasive pediatric surgery.

He was an invited speaker in California, Florida, Puerto Rico and Canada. He was recognized by the Journal of Urology with an award as an Outstanding Reviewer.

MSH

Dr. Ethan Grober continued his work on male infertility at Mount Sinai and Women’s College. His research includes his project entitled ‘Intra-Operative Objective Structured Assessment of Technical Skill (OSATS): Correlation with Operative and Clinical Patient Outcomes.’

He received a new grant from the Association for Surgical Education - CESERT entitled ‘Validation of Real-time, Intraoperative, Surgical Competence [RISC] assessments linked to patient outcomes.’ He also received grants from PSI, Medical Council of Canada, RCPSC and CUA.

He was an invited speaker in Charlottetown.

Dr. Keith Jarvi, site chief at MSH, continued the Male Infertility Program and as Director of the Murray Koffler Urologic Wellness Centre (MKUWC). He was an invited speaker in Montreal and locally.

He continued work on infertility on projects funded by the Canadian Uro-Oncology Group [Identification of prostate cancer biomarkers in semen] and Physicians’ Services Incorporated [Use of seminal fluid protein as biomarkers for diseases in the male reproductive tract].

Dr. Kirk Lo continued his basic research in infertility with a project entitled ‘Semen proteomics – discovery of prostate cancer biomarkers funded by a private donor.’ He also organized resident and fellow presentations for the Annual Robson Research Day.

He was an invited speaker in San Francisco and Montreal.

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

He was invited speaker and/or Visiting Professor in Spain, Switzerland, Greece, Venezuela, Hamilton, Quebec City and Halifax.

He continued his research with funding from the Ontario Institute for Cancer Research for a project entitled ‘A proteomic and genetic biomarker panel for improving PSA performance,’ from CIHR for ‘Clinical significance of calcium ion transport in prostate cancer and genetic, epigenetic, and proteomic analysis of the kallikrein family in search for novel diagnostic, prognostic, and risk susceptibility algorithms for prostate cancer.’ He was associated with the Top 3 Best Posters at the Society of Urologic Oncology Meeting in Bethesda, Maryland.
Dr. Lesley Carr continued her work as an investigator in an industry grant for the use of muscle stem cells in stress urinary incontinence as well as research in overactive bladder. Dr. Carr was in charge of Journal Seminars for Urology residents.

She won the A.W. Bruce Faculty Undergraduate Teaching Award. She shared the Best Clinical Presentation Award at the International Continence Society Meeting in San Francisco.

Dr. Sender Herschorn continued as University Chair and Martin Barkin Chair in Urological Research. He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction. He was invited speaker and lecturer in San Francisco; St. Petersburg, Florida; Kingston, Ontario; Quebec City; United Kingdom, China and Japan. He also directed the 17th Annual U of T Urology Update.

He was elected President of the Canadian Urological Association. He won the Best Clinical Presentation Award at the International Continence Society Meeting in San Francisco. He was given the Lifetime Achievement Award from the Society for Urodynamics and Female Urology in St. Petersburg, Florida. He also won the Michael Jewett Award for postgraduate teaching.

Dr. Laurence Klotz served his final year as site chief at Sunnybrook and continued his research in uro-oncology. 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 China; Japan; Australia; Cleveland, Ohio; Bethesda, Maryland; Washington, DC; and Montreal.

He was elected Past-President of the Canadian Urological Association.

Dr. Ron Kodama organized the 7th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2010.

He was appointed the Chief of Urology at Sunnybrook Health Sciences Centre.

He won the Faculty of Medicine Aikins Award for Undergraduate Teaching.

Dr. Robert Nam continued his work on his peer-reviewed projects and also received new grants. His funding is currently from NCIC and CIHR.

He won the Division of Urology Postgraduate Surgical Teaching Award.

Dr. Vasundara Venkateswaran continued her basic research in prostate cancer with funding from CIHR, CPCRF, and NCIC. She won the C2R Young Investigator Award from the Canadian Urology Research Consortium/Canadian Urologic Oncology Group and the Travel Award from the Prostate Cancer Canada/Australia-Canadian Prostate Cancer Research Alliance.

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

He was invited speaker at meetings in San Francisco, Las Vegas, Bethesda, Greece and China. He was on the Scientific Committee of the 3rd World Congress on Controversies in Urology in Athens, Greece.

He continued as the holder of the Love Chair in Prostate Cancer Prevention at the Princess Margaret Hospital.

Dr. Michael Jewett continued his clinical and research work in many peer-reviewed funded projects in uro-oncology. He continued work under a CUA/CUOG Bayer Kidney Cancer Fellowship Award for renal cell carcinoma. Other projects are funded by the Kidney Foundation, Science and Engineering Council, CIHR, and Ontario Institute for Cancer Research.

He continued as the Wyeth/CIHR Clinical Research Chair in Oncology.

He was an invited speaker and/or Visiting Professor in San Francisco, Seattle, Chicago, Cleveland, Bethesda, Scotland, Germany, Switzerland, and locally.

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

Dr. John Trachtenberg continued his active research into novel therapies for prostate cancer with grants from CIHR, CPCRF, PMH, Prostate Cancer Canada, NCIC, NIH, NCI/ SWOG, and industry. He was invited speaker and Visiting Professor in North America and China.

He co-chaired the 19th Annual Issues and Controversies in Las Vegas, Nevada.

Dr. Tony Finelli continued his funded research projects in renal cancer and in men with negative biopsies for prostate cancer. Funding is from CPCRF, CUA/CUOG, CIHR, and the Faculty of Medicine Continuing Education.

He was invited speaker in Montreal, Charlottetown, Las Vegas, Spain, China, and locally.

Dr. Andrew Matthew, clinical psychologist, continued his work in outcomes after prostate cancer therapy. His projects are funded by PMH Foundation, CIHR, and the Toronto Community Foundation.
Dr. Magdy Hassouna continued his basic and clinical work in neurourology and neuromodulation. Research funding was received from the Ontario Neurotrauma Foundation, CIHR, and industry.

He became Section Editor, ‘Neuromodulation: Technology at the Neural Interface.’

Dr. Sidney Radomski continued his role as the Urology Co-ordinator in the Surgical Skills Lab and Director of the weekly postgraduate urology resident seminars. He continued his work in peer-review and industry funded grants in incontinence, overactive bladder and erectile dysfunction. He shared the Best Clinical Presentation Award at the International Continence Society Meeting in San Francisco.

He continued as the Assessor of Educational Performance for the Department of Surgery.

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 of a hands-on course at the American Urological Association (AUA) Meeting in San Francisco. He was a guest speaker in Indianapolis and Germany.

Dr. Kenneth Pace continued his work in clinical epidemiology, stone disease, and minimally invasive surgery. He continued as the fellowship coordinator for the Division of Urology.

He became part of the American Urological Association Leadership Program.

Dr. Robert Stewart continued as the principal urologist in the kidney transplantation program. He continued as Urology Residency Program Director and Director of Undergraduate Surgery Education at SMH.

He won the Division of Urology A.W. Bruce Undergraduate Teaching Award, the Department of Surgery Bruce Tovey Award for Undergraduate Education, and the St. Michael’s Hospital William Horsey Award for Postgraduate Education.

ACADEMIC EVENTS & AWARDS

The Annual Charles J. Robson Research Day was held on March 25th. The Visiting Professor was Dr. Bernard Churchill, Chief of the Division of Pediatric Urology at the University of California, Los Angeles.

There were 33 presentations. Resident Clinical winners were Melise Keays and Steven Kim; Resident Basic/Translational Raj Satkunasivam; Honourable Mention for student was Natalie Venier; Fellow Clinical winner was Robert Abouassaly; Fellow Basis/Translational winner was Bas van Rijn.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Robert Hamilton.

The PGY-5s, Drs. Robert Hamilton, Girish Kulkarni, Michael Ordon and Sunoj Punnen, successfully completed their Royal College Examinations.

VISITING PROFESSORS

Guests this year were Herbert Lepor, MD from New York University; Eric Rovner, Medical University of South Carolina; J. Christian Winters, MD from Louisiana State University; J. Stuart Wolf, MD from University of Michigan; Eric Klein, MD from the Cleveland Clinic; Joseph Presti, MD from Stanford University; Dean Bajorin, MD from Memorial Sloan-Kettering Cancer Center; Harris Nagler, MD from Albert Einstein School of Medicine; James Talcott, MD from Harvard Medical School; and Laurent Boccon-Gibod, MD from University of Paris, France.
INTRODUCTION

Academic productivity continues to evolve in the rapidly changing vascular surgery specialty at the University of Toronto. Dr. Graham Roche-Nagle was successfully recruited to the TGH/UHN site with a focus on surgical education, quality outcomes and interventional catheter based therapy. He is leading the UHN’s membership in the Vascular Study Group of New England that has developed a vascular quality improvement registry with proven best practice benefits. Simultaneously the entire university Division is working with the Cardiac Care Network to develop a quality improvement registry and network for the entire Province of Ontario. Sunnybrook was awarded EVAR funding by the Ministry of Health and Long Term Care. At St. Michael’s, recruitment is underway for a new Division Chief and for a junior staff position. Both SMH and UHN opened dedicated OR suites with fixed angiographic imaging to facilitate all types of EVAR cases. Sunnybrook has announced that the Maggisano Family Chair in Vascular Surgery was funded and approved by the University of Toronto. It is anticipated that the initial chair will be awarded in the 2010-11 academic year.

ADMINISTRATION

Dr. Oren Steinmetz of McGill University was the external reviewer of Dr. Lindsay’s initial term as Division Chair in Spring 2010. Dr. Johnston continues as R. Fraser Elliott Chair in Vascular Surgery and with his co-editor, Dr Jack Cronenwitt, realized the publication of the 7th edition of Rutherford’s Vascular Surgery. He continues as the Chair of the SVS Document Oversight Committee. Dr. Lindsay continues as a member of the SVS Document Oversight Committee. He began collaboration with Kori Kingsbury, the CEO of the Cardiac Care Network, to develop a business case to present MOHLTC for a program of quality improvement in Vascular Surgery for the Province of Ontario. A business case is being developed for presentation to MOHLTC. Dr. Rubin continues as the Chairman and CEO of the MSH/UHN Academic Medical Organization, and represents all AHSC AFP Governance Organizations in Ontario on the Academic Medicine Steering Committee. Dr. Rubin is now Program Medical Director of the Peter Munk Cardiac Center, and continues as Head of the Division of Vascular Surgery at UHN and as Chair of the SVS Audit Committee. Dr. Tanner completed his term as the Head of the Section of Vascular Surgery at the Ontario Medical Association but remains a member of the OMA Board of Directors and Chair of the Surgical Assembly of the OMA. He was chosen to be the Lead Negotiator for the upcoming 2012 OMA/MOHLTC contract. Dr. Andrew Dueck has been appointed to the Canadian Society of Vascular Surgery as the Program Chair for the 2010 meeting in Vancouver. Dr. Dueck is the Vascular Surgery representative on the tariff committee at the OMA. Dr. Rubin remain a member of the Research and Education committee and Chair of the Audit Committee of the SVS. Dr. Lindsay continues as a member of the Editorial Board of the Annals of Vascular Surgery and as a key reviewer for the Journal of Vascular Surgery. Dr. Maggisano has successfully obtained funding for a Chair in Vascular Surgery at Sunnybrook through the University of Toronto and the initial recipient will be selected in the Fall 2010.

EDUCATION

Dr. Oreopoulos has successfully completed his second year of the Educational Scholars Program and continues as the coordinator of the Vascular Surgical resident seminar series. He is taking an additional year of training in Interventional Radiology at the University Health Network. Dr. Heather Cox completed her Royal College Vascular residency and is to complete an interventional fellowship prior to accepting a position at the University of Alberta in Edmonton. Dr. Kevin Molloy completed a one-year fellowship and returned to the UK to complete his vascular surgical certification. Dr. Tony Moloney completed a one-year fellowship in vascular surgery and will begin a Master’s degree in eHealth at McMaster University in the Fall 2010.

RESEARCH

Dr. Rubin holds three independent basic science operating grants from CIHR. In addition, he is Chair of the Grant Review Panel for the Foundation for Accelerated Vascular Research in San Francisco, and is a member of the CIHR - Multiple Sclerosis Society Advisory Panel that is evaluating the role of venous stenosis in Multiple Sclerosis. Dr. Lindsay’s PSI grant to study complement activation in ruptured abdominal aortic aneurysm in both humans and animals continues. Dr. Tse has completed his Master’s Degree in the Institute of Biomedical Engineering under the supervision of Dr. Cristina Amon at University of Toronto. Dr. Papia was awarded the Patient Safety Scholar Award from Sunnybrook Hospital. Dr. Wooster is the recipient
of a Royal College of Physicians and Surgeons of Canada award for a personal practice audit tool to assess health advocacy competence in practice.

**AWARDS**

At the Canadian Society for Vascular Surgery meeting in September 2009, the Division took home the Provan, Cook, Gore and Sigvaris awards. The Provan award went to Drs. Lindsay and Molloy for an educational project on assessment of EVAR skills in trainees, Dr. Tse won the Cook Award for his project on EVAR and computational fluid dynamics, Dr. Dueck and Wooster took home the Gore Award for Aortic Aneurysm Screening in Canada and the Sigvaris Award for the Best Venous Presentation regarding an audit tool for venous duplex reports. Dr. Tse also won the Best Poster Award for Engineering in a Clinical Setting during the Institute for Biomaterials and Biomedical Engineering Scientific Day 2010.

**EXTERNAL VISITS AND VISITORS**

Drs. Johnston and Lindsay presented at the Winnipeg Vascular Surgery course in April 2010. Dr. Johnston was a guest at the University of Buffalo, Department of Surgery Faculty Development Retreat. In addition, he presented at the Saudi Society for Vascular Surgery in 2010. Dr. Lindsay gave two presentations related to his advocacy work on Aortic Aneurysm Screening at the Annual Meeting of the CSVS, and at the College of Family Physicians Annual Meeting in October 2009.
This past academic year was an extremely active one for the SAA and the advisory committee met five times during the year. We set and were able to fulfill three important objectives.

The first was to augment and improve our database of members. Over a six-month period, we increased the number of records by 1200. Data accuracy increased to 80% (the Faculty average is 75%) and merged our data into the central Faculty database. Our tracing project has had an 85% success rate (85% of all “lost” alumni have been found.)

We agreed to join the Alumni Council, an assembly of representatives from the 11 Alumni Associations across the Faculty of Medicine. This is intended to be a forum to discuss alumni relations best practices, and is a means to advise the Dean’s Office on Alumni affairs.

This year we significantly enhanced our support for the Department of Surgery’s Academic Program. In addition to our record-yielding annual appeal, we put our efforts specifically behind the Surgeon Scientist Program (SSP) where we strongly supported, planned and presented “SHARP MINDS – SKILLED HANDS,” the special 25th anniversary dinner celebrating the SSP and coinciding with the Department’s Annual Gallie Day program. The evening was a resounding success. It produced a video to be used in future presentations of the SSP, sold 54 tables, was attended by 435 guests, and generated net profits of over $60,000 for the SSP.

Your Surgical Alumni Association has now become a strong supportive part of the Department’s activities, thanks to the strong encouragement from its Chairman, Dr. Richard Reznick.
University of Toronto Surgical Oncologists continue to provide provincial and national leadership in cancer care, oncology research, and fellowship training.

This year saw a crowning achievement for Dr. Carol Swallow who has led the general surgical oncology training program for a decade and served as Chair of The Royal College Specialty Committee in General Surgical Oncology (GSO). The Royal College held its first ever quality exams in GSO. This achievement took many years of persistent work and leadership by Dr. Swallow and will benefit GSO trainees across our country. With The Royal College examination and certification in place, Dr. Swallow is passing on her Program Director role to Dr. Frances Wright (Sunnybrook) and the Specialty Chair role to Dr. Ralph George. Congratulations to Dr. Swallow who has served so well in these two positions, and best wishes as she takes on the presidency of the Canadian Society of Surgical Oncology.

On the provincial front, Dr. Jon Irish and Dr. Robin McLeod continue to lead the Cancer Care Ontario Surgical Oncology program. Under their guidance, major guidelines and directives have come in the areas of breast cancer, rectal cancer, thoracic oncology and hepatobiliary surgery. Many of these were led by other University of Toronto Surgical Oncologists. Two new provincial guideline initiatives are underway in melanoma and gastric cancer, with input from Dr. Frances Wright and Dr. Natalie Coburn.

Research is flourishing within Surgical Oncology. This year’s report will emphasize that eleven surgical oncologists are supervisors within the Surgical Scientist Program. Areas of interest range from Dr. Nancy Baxter’s focus on young adult cancer survivors, to Dr. Sean Cleary’s interest in the genetic epidemiology of hepatobiliary and pancreatic malignancy, and the efforts of Dr. David Urbach and Dr. Alice Wei in the delivery of surgical cancer care and barriers to access.

Examples of innovative projects, within surgical oncology, include Dr. David McCready’s work with rapid diagnosis, Dr. Claire Holloway’s interest in 3D imaging applied to surgery, and Dr. Rebecca Gladdy’s focus on sarcoma genomics and development of new therapeutics. These are just a few examples of the ongoing research activity.

Events in the past year have included the University of Toronto Update in Surgical Oncology 2009 with guest, Dr. Heidi Nelson, from the Mayo Clinic, the bi-annual Toronto Breast Care Symposium [co-organized by

Dr. Jaime Escallon], key presentation in the Update in General Surgery, and the 2nd annual Breast Care Symposium.

Finally, there have been a number of new recruits over the past couple of years. This year saw Dr. Jean-François Boileau join the surgical oncology group at Sunnybrook. Jean-François was recruited from Centre hospitalier de l’Université de Montréal (CHUM) and brings expertise in breast and melanoma surgery.
OVERVIEW

The Office of International Surgery is founded on the belief that improving access to surgical care in low income countries has a great potential to reduce the global burden of disease. The role of a University department of surgery within the global health field should be a scholarly role, emphasizing education and research. Provision of clinical care supports these activities within some of our projects.

ONGOING PROJECTS

PTOLEMY LIBRARY PROJECT

Through a partnership with the University of Toronto Libraries, the Office of International Surgery provides free full text access to the University of Toronto Library to surgeons and surgical trainees in low income countries. The portal at www.ptolemy.ca provides an access point to the most clinically relevant resources to simplify use. Our librarians, Sandra Kendall at Sidney Liswood library, and Warren Holder and Sian Miekle at Robarts, are true ‘librarians to the world.’ Over 600 people use this service, and tens of thousands of full text articles have been downloaded by surgeons in low income countries since we started providing access in 2001.

SURGERY IN AFRICA REVIEWS

These online reviews are narrative reviews on a broad range of surgical topics focusing on clinically relevant aspects of surgery in resource constrained settings. Authors from Africa or from low income countries often partner with a Canadian colleague who has international experience to write a review. The review connects the evidence available in the surgical literature with the realities of practice in settings more challenging, in some ways, than many U of T surgeons are accustomed to working in. A generous grant from Johnson and Johnson allows us to support authors from low income countries, and we always welcome U of T or Canadian surgeons with ideas for a review. Contact andrew.howard@sickkids.ca or brian.ostrow@bookshelf.ca if you are interested in writing a review. Reviews dating back to 2005 are online at www.ptolemy.ca/members.

BETHUNE ROUND TABLE ON INTERNATIONAL SURGERY

This annual Canadian academic meeting is one of the first to focus on surgical aspects of global health. The 2009 Bethune Round Table was held in Toronto, with highlights including Mme. Adrienne Clarkson as a guest speaker on the life of Norman Bethune, and with clinical and scientific presentations from all specialties of surgery. The 2010 meeting was held in Calgary and the 2011 meeting will be held in Montreal, in partnership with the Canadian Network for International Surgery www.cnis.ca. Watch the CNIS website for dates and abstract deadlines for the spring 2011 meeting. CNIS and other partners contribute to a scholarship fund which allows presenters with accepted abstracts from low income countries to travel to Canada and present excellent papers which greatly enhance our understanding and engagement. Canadian surgeons and doctors from across the country attend the event to share what works in all the different avenues of Canadian involvement in global health and surgery.

TORONTO ADDIS ABABA ACADEMIC COLLABORATION

Dr. Ted Gerstle and Ms. Ann Roche from The Hospital for Sick Children lead an educational mission twice annually involving teaching operative paediatric surgery within the department of surgery at Black Lion Hospital in Addis Ababa, Ethiopia – the main teaching hospital for Addis Ababa University. General surgery, ENT, ophthalmology, orthopaedics, anaesthesia, and perioperative nursing are taught together according to the needs and plans of our Ethiopian counterparts. This project represents the beginnings, in the department of surgery, in fulfilling the potential of the Toronto Addis Ababa Academic Collaboration. Many departments at U of T are linking with AAU to strengthen the teaching and academic collaboration at both institutions.

GLOBAL HEALTH EDUCATION INSTITUTE

The department of surgery is participating, in conjunction with anaesthesia and obstetrics, in teaching residents from across U of T who are taking the Global Health Education Institute course directed by Dr. Barry Pakes, an emergentologist from Sunnybrook. There is demand for an expanded surgical component to this course next year, including skills lab sessions – so we will need faculty. Including you. Please contact andrew.howard@sickkids.ca if you are interested in teaching.
EVERYTHING ELSE - YOU

Global Health and Surgery have always belonged together at U of T and every hospital and division is in some way involved. Enabling, improving and acknowledging this scholarly work is the responsibility of OIS. We do want to hear from you. Our core committee includes Dr. Mark Bernstein, Dr. Brian Ostrow, Dr. Ted Gerstle, Dr. Allan Okrainec, Dr. Georges Azzie, and myself. Please do contact us so that we can continue to build the community of faculty and trainees involved in Global Health in our department.
The Department of Surgery celebrated its rich history of research and science under our Surgeon Scientist Program with a celebratory gala held at the Westin Harbour Castle on May 6, 2010. The event, called Sharp Minds: Skilled Hands, marked the 25th anniversary of the Surgeon Scientist Program which is made up of dedicated surgeons, scientists and surgical residents who work to advance science and medical care.

The Right Honourable Madame Adrienne Clarkson, the former Governor-General of Canada, attended and gave an informative address about Dr. Norman Bethune. Also present were: Susan Ormiston, the respected journalist from the Canadian Broadcasting Corporation who served as the emcee; Dr. Joseph Vacanti, our Gordon Murray Lecturer for 2010, current faculty members, residents, alumni, friends and supporters of the Department.

Bottom Left: L-R: The Right Honourable Adrienne Clarkson, former Governor-General of Canada; Dr. Richard K. Reznick, Department of Surgery Chair; Dr. Ben Alman, Vice-Chair of Research; Ms. Susan Ormiston, CBC broadcaster

Top Photo: The distinguished Dr. Donald Wilson, former Chair of the Department of Surgery (1972-1982)

Bottom Right: L-R: Dr. Paul Kongkham, Dr. Dini Kongkam (SSP neurosurgery trainees), Dr. Scellig Stone, Dr. Ange Stone - The future of medicine
Top Left: Dr. R. Reznick delivering his address
Bottom Photo: Warming up before dinner
Top Right: L-R: Dr. Bernard Goldman; Dr. Catherine Whiteside, Dean of the Faculty of Medicine; and Dr. Paul Walker, exchanging pleasantries
The Department of Surgery at The Hospital for Sick Children has had a productive year. Dr. James Wright continues to lead the Canadian Paediatric Surgical Wait Time Project. The project, funded by Health Canada, measures wait times for children’s surgery in 11 surgical subspecialties. In June 2010, the project contributed high-level findings to the Wait Time Alliance ‘Report Card on Wait Times,’ garnering national media coverage for paediatric surgical wait times. From January-December 2009, of 64,095 completed paediatric surgeries in 15 Canadian pediatric academic hospitals, more than 17,000 children exceeded access targets. The project currently focuses on generating benchmark reports and supporting knowledge sharing for its participating hospitals, while moving towards a self-sustaining model.

Targeted funding from the Ministry of Health and Long Term Care continues to make a substantial impact on wait time for surgery at SickKids. While waits are still not ideal, the number of children waiting has dropped from over 3,000 to approximately 2,000. Great strides have been made in reducing wait times for cardiac surgery and children requiring dental treatment under anesthesia.

**NEW STAFF**

New recruits include Drs. Greg Borschel, Tessa Gordon and Joel Fish all of the Division of Plastic and Reconstructive Surgery, Dr. Lucas Murnaghan (joint recruit with Women’s College Hospital) and Dr. Kellie Leitch (interim, locum assignment) of the Division of Orthopaedic Surgery.

**DEPARTURES**

Dr. Robert B. Salter passed away, having just completely retired from the Hospital in March 2010.

**APPPOINTMENTS & PROMOTIONS**

Dr. David Fisher, of the Division of Plastic and Reconstructive Surgery was promoted to Associate Professor. Dr. Stephen Lewis, Division of Orthopaedic Surgery, was promoted to Associate Professor. Dr. Michael D. Taylor, Division of Neurosurgery, was promoted to Associate Professor.

**DIVISION OF CARDIAC SURGERY**

Sickkids’ cardiovascular surgeons hold nine external peer-reviewed grants: five Heart and Stroke, two CIHR, and two from the Children’s Heart Foundation. There were 27 peer-reviewed publications. The Heart Centre (in which
the division is a key participant) held a two-and-a-half day symposium attended by over 150 individuals, many from around the world. Division members were also key participants in American and overseas conferences including the American Heart Association annual meeting and the American Association for Thoracic Surgery annual meeting.

DIVISION OF GENERAL AND THORACIC SURGERY

The Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI) [www.cigiti.com], developed by a team headed by Dr. Peter Kim, was officially opened. Dr. Kim's team is developing new innovative technologies focused on paediatric and fetal applications in three areas: image-guided surgical intervention, simulation for educational applications and miniaturized robotic surgery. The CIGITI is funded by approximately $20 million in grants, from a variety of governmental and industrial sources. Dr. Priscilla Chiu was co-principal investigator on a $20 million CIRM-CSF grant in support of novel treatments to target cancer stem cells. The amount allocated for her work is $730,000 over four years.

Dr. Jack Langer was part of the team that established the SickKids Obesity Management Program (STOMP), which ultimately anticipates performing 10-15 bariatric surgical procedures per year. Dr. Langer is also Chair of the Research Committee of the newly formed University of Toronto Collaborative Bariatric Surgery Program, and sits on the provincial Bariatric Surgery Steering Committee. Drs. Georges Azzie and Ted Gerstle established a pediatric simulator for teaching laparoscopic skills in neonatal patients, which is being validated at several major pediatric surgical meetings and will soon be adopted by pediatric surgical training programs world-wide. Drs. Azzie and Gerstle, along with Doruk Ozgediz (pediatric general surgery fellow) are involved in a number of important initiatives in Africa developing training programs and surgical expertise, and measuring the burden of surgical disease on population health.

Dr. Azzie continues to develop an innovative tele-mentoring program teaching minimal access surgical skills to surgeons in Botswana. Dr. Gerstle is co-principal investigator on a grant from the Canadian International Development Agency (CIDA) which provides $420,000 over three years for healthcare leadership development in Tanzania and Ethiopia. Dr. Gerstle is also co-principal investigator on a grant from the Children’s Oncology Group to study the management of adrenal adenocarcinoma. Dr. Paul Wales continues to advance the treatment of intestinal failure through the Group for Improvement of Intestinal Failure and Treatment (GIFT), and is involved in translational studies using a porcine model of short bowel syndrome in order to develop novel medical and surgical approaches to this problem. Dr. Annie Fecteau served as Chair of the American Pediatric Surgical Association Ethics committee. Members of the Division published 41 papers and delivered numerous invited lectures around the world on a variety of topics.
The Division of Plastic and Reconstructive Surgery has had a productive year in terms of recruitment. Dr. Greg Borschel completed his residency training at the University of Michigan and was recruited from Washington University, St. Louis. His clinical field of expertise is peripheral nerve, upper extremity and microsurgery. He is cross-appointed as surgeon-scientist with a research focus devoted to improved understanding and outcomes in peripheral nerve injury using growth factor delivery systems for motor nerve injury and the use of type I collagen conduits for the repair of peripheral nerve gaps. Dr. Borschel’s recruitment has been instrumental in attracting, to the Division of Plastic and Reconstructive Surgery, Dr. Tessa Gordon who has an international reputation as a basic scientist in the field of peripheral nerve injury and repair. Tessa’s work has attracted international attention for her studies of neurophysiology, nerve regeneration, electrical stimulation and novel surgical paradigms.

Dr. Joel Fish joined our division as the Medical Director of the Burn Program. Dr. Fish is a graduate of the University of Toronto surgeon-scientist program in Plastic Surgery and was on staff at the Ross Tilley Burn Unit for many years. He has a strong research interest in the application of infrared spectroscopy in determination of burn wound depth.

Dr. Cho Y. Pang received the inaugural Award for Outstanding Achievement in Basic Science and Translational Research, Plastic Surgery Education Foundation, American Society of Plastic Surgeons. Divisional peer-reviewed funding was obtained from CIHR, PSI, PSEF and KomedyPlast. Educational activities during the past year included the 6th Annual Lindsay-Thomson Symposium in Pediatric Plastic Surgery with Dr. Cindy Verchere from the University of British Columbia as the INCO-Vale Visiting Professor.

During the past academic year, divisional members published 8 peer-review papers, presented 34 scientific papers and participated in 19 invited lectures.

Dr. João Pippi-Salle continued his educational activities and successfully chaired the 3rd World Congress of the Society of Hypospadias and Disorders of Sex Development when he was elected president of this medical association. In addition, he finalized the video component of the Reconstructive Pediatric Urological Video-Atlas which now will be edited and placed online. He was an invited speaker, surgeon and Visiting Professor at many locations around the world. These included Qatar, Bosnia, the United Kingdom, Brazil, Egypt, USA, China, Japan and Canada.

Dr. Darius Bagli continued his basic research in bladder diseases with projects funded by the Research Institute at Sick Kids, CIHR, Kidney Foundation of Canada, Society For Pediatric Urology, American Foundation for Urological Disease and PSI Foundation. He was a Visiting Professor in the United States and Brazil. He continued as Associate Chief of Surgery at Sick Kids and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering. He participated in new projects funded by the Ontario Research Fund and the Canadian Foundation for Innovation (Disruptive technologies in pediatric and fetal intervention). He organized and directed the Third Annual North American Pediatric Fellows Laparoscopy Course. He was an invited speaker in Edmonton, USA, Kuwait and Lebanon. He became the associate editor of the pediatric section of the Journal of Urology.

Dr. Armando Lorenzo continued his work in Clinical Epidemiology and minimally invasive pediatric surgery. He was an invited speaker in Chile and USA. He won the Michael A.S. Jewett Award for Excellence in Postgraduate Teaching in the Division of Urology. He received an Award as the best reviewer for the pediatric section of the Journal of Urology.

**EDUCATION**

The Department Surgery continues to have an active education program training 64 fellows and 86 residents originating from 36 countries worldwide.

**RESEARCH**

Of 38 surgeons, 18 have funded research programs. The Department is engaged in a wide variety of clinical and basic research, supervises many research fellows, 16 Masters and 12 PhD students.
DIVISION OF CARDIAC SURGERY

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

PUBLICATIONS


INVIITED VISITS


Caldarone C: 62nd Annual Scientific Meeting of the Japanese Association for Thoracic Surgery, Tokyo, Japan, October 2009. (1) Choosing between one-and two-ventricle palliation for neonates with critical left ventricular outflow tract obstruction, (2) Aortic level obstruction in neonates and children.

Coles J: American Heart Association, Orlando, Florida, USA, November 2009. Presenter/Moderator: Cardiac regeneration and cellular therapy.

Van Arsdell G: 20th Annual Congenital Heart Disease in the Adult, Portland, Oregon, USA, June 2010. Guest Speaker: (1) Surgical tips: What are the key things that need to be done in the OR for Fontan redos, repeat surgery for tetralogy of fallot, failing musta, mitral regurgitation, (2) Presenter: What can surgeons do to minimize the risk of neurodevelopmental problems in post-op patients? (3) Chair: Surgery and catheter intervention.


Van Arsdell G: American College of Cardiology, Atlanta, Georgia, USA, March 2010. Panelist: Diagnosis and management of the systemic right ventricle.


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


■ DIVISION OF GENERAL SURGERY

Dr. G. Azzie Assistant Professor
Dr. P.P.L. Chiu Assistant Professor
Dr. S.H. Ein Associate Professor
Dr. A.H. Fecteau Associate Professor
Dr. J.T. Gerstle Associate Professor
Dr. D. Grant Professor
Dr. S.A. Himidan Assistant Professor
Dr. P.C.W. Kim Associate Professor
Dr. J.C. Langer Professor  [Division Head]
Dr. P. Wales Associate Professor

PUBLICATIONS


**INVITED VISITS**


**Ein SE:** Massachusetts General Hospital, Surgical Grand Rounds, Boston, Massachusetts, USA, July 2009. (1) Operation for gastric tube, (2) Any operation that is successful wasn’t indicated to begin with.


**Fecteau A:** Canadian Paediatric Resident and Subspecialty Fellow Competition, Winnipeg, Manitoba, Canada, May 2010. Presenter: Predicting native liver survival after Kasai portoenterostomy for biliary atresia.

**Fecteau A:** International Pediatric Transplant Association [IPTA], Fellows Symposium, Hannover, Germany, May 2010. Presenter: Radiation exposure in the first year following pediatric live transplantation.


**Himidan S:** Science Media Centre of Canada, Evening with Jay Ingram, Toronto, Ontario, Canada, April 2010.

**Kim P:** University of Sichuan, Western China Centre of Medical Science, Chengdu, Sichuan Province, China, April 2010. The Royal College of Physicians and Surgeons of Canada Kilborn Memorial Visiting Professor.


**Langer J:** Cirugia Pediatrica del Cono Sur de America [CIPESUR], Vina del Mar, Chile, November 2009. Presenter: Hirschsprung’s disease, minimal access surgery in children, necrotizing enterocolitis, abdominal wall defects, congenital lung lesions, abdominal masses.


**Langer J:** Canadian Association of Paediatric Surgeons, Halifax, Nova Scotia, Canada, October 2009. (1) Panel Moderator on bariatric surgery, (2) Presenter: Bariatric surgery in adolescents.

**Langer J:** Mexican Congress of Pediatric Surgery, Leon, Mexico, September 2009. (1) Panel member on gastroesophageal reflux; Hirschsprung’s disease, anorectal malformation, (2) Presenter: Chronic intestinal pseudo-obstruction: An update.


**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*


Centre for Computer-Assisted Intervention and Innovation [CCAI]. *Kim PCW: Ministry of Research and Innovation. $10,200,000 2008 - 2012*

Centre for Image-Guided Innovation and Therapeutic Intervention [CIGITI]. *Kim P, Wright J, Rossant J, Babyn P, Lymer J: Canadian Foundation for Innovation (227,000,000 in Grants; Research Hospital Fund: $12,500,000 2008 – 2012)*

Notch inhibition as a therapeutic target in human T-All. *Chiu PPL: CIRM-CSCC Disease Team Grant. $720,000 2010 – 2013*


KidsArm Project. Kim PCW, Looi T: FEDEV Ontario, Southern Ontario Development Program. ($10,000,000 2010 - 2014)


Research hospital fund: Centre for Image Guided Innovation and Therapeutic Intervention (CIGITI); award amount for this section $12,500,000. Kim P, Wright J, Rossant J, Babyn P, Lymer J: Canadian Foundation for Innovation. Total Awarded $227,000,000. ($12,500,000 2008 - 2012)


**HONOURS RECEIVED**

**Langer J:** Pediatric Surgery Resident Teaching Award (Postgraduate). 2009.

**Wales P:** Best Clinical Paper at the 41st Annual Meeting of the Canadian Association of Paediatric Surgeons, Halifax, Nova Scotia, Canada. 2009.
### DIVISION OF NEUROSURGERY

Dr. M. Dennis  
Professor

Dr. P.B. Dirks  
Professor

Dr. J.M. Drake  
Professor  [Division Head]

Dr. A.V. Kulkarni  
Associate Professor

Dr. J.T. Rutka  
Professor

Dr. M.D. Taylor  
Associate Professor

### PUBLICATIONS

Ahmed I, August K, Vachhrajani S, Dirks PB, Drake JM, Rutka JT:  

Akaishi K, Nakayama J, Sakai K, Kobayashi T, Rutka JT:  


Berger MS, Couldwell WT, Rutka JT, Selden NR:  

Bhardwaj RD, Auguste KI, Kulkarni AV, Dirks PB, Drake JM, Rutka JT:  

Bhardwaj RD, Mahmooodabadi SZ, Otsubo H, Snead OC, Rutka JT, Widjaja E:  

Bhatia B, Northcott PA, Hambardzumyan D, Govindarajan B, Brat DJ, Arbiser JL, Holland EC, Taylor MD, Kenney AM:  

Burn S, Ansorge O, Zeller R, Drake JM:  


Caird J, Drake J:  

Cook DJ, Rutka JT:  

de Almeida JR, Ghotme K, Leong I, Drake J, James AL, Witterick IJ:  

Dennis M:  

Dennis M:  

Dennis M, Agostino A, Roncadin C, Levin H:  


**INVERTED VISITS**


**Dirks P:** International Society for Stem Cell Research (ISSCR), San Francisco, California, USA, June 2010. Chemical and genetic modulation of proliferation and lineage choice in neural stem cells and brain tumor stem cells.

**Dirks P:** Peking University - School of Life Sciences; Frontiers in Developmental, Stem Cell and Systems Biology Symposium, Beijing, China, May 2010. Guest Lecturer: Brain cancer stem cells: Models and mechanisms.

**Dirks P:** The Indian Society for Parental and Enteral Nutrition (ISPEN), Cancer Conference, Bariloche, Argentina, March 2010. Stem cells and cancer.

**Dirks P:** Lorne Cancer Conference, Lorne Victoria, Australia, February 2010. Brain cancer stem cells in human and mouse brain tumors.

**Dirks P:** Second Norwegian Cancer Symposium, Oslo, Norway, December 2009. Self-renewal and lineage commitment in brain tumour stem cells.


**Dirks P:** International Society of Pediatric Neurosurgery, Pasadena, California, USA, October 2009. Current status of stem cell research in pediatric brain tumors.

**Dirks P:** Society for Neuro-Oncology and the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section on Tumors, Joint Meeting, New Orleans, Louisiana, USA, October 2009. Farber Award Lecture: Brain tumor stem cells.


**Dirks P:** Memorial Sloan Kettering Cancer Center, Molecular Pharmacology and Chemistry Research Seminar Series, New York, New York, USA, September 2009. Defining the stem cell character of human and mouse brain tumors.

**Drake J:** Congress of Neurological Surgeons, Annual Meeting, New Orleans, Louisiana, USA, October 2009. Speaker for the Scientific Program Committee Presentation: Treatment of hydrocephalus: shunts and endoscopy.

**Drake J:** World Federation of Neurological Surgeons (WFNS), Annual Meeting, XIV World Congress of Neurological Surgery, Boston, Massachusetts, USA, August 2009. Abstract reviewer for pediatrics at video symposium: Masters of Neuroendoscopy Presentation for complication avoidance in ventricular endoscopy.

**Kulkarni A:** European Society of Pediatric Neurosurgery, Berlin, Germany, May 2010. Invited Lecturer/Presenter: Cranioapharyngiomas.


**Kulkarni A:** American Society of Pediatric Neurosurgeons, Grand Cayman, Cayman Islands, January 2010. Speaker: Endoscopic third ventriculostomy versus CSF shunt.

**Kulkarni A:** World Congress of Neurological Surgery, Boston, Massachusetts, USA, September 2009. Invited Speaker: Hydrocephalus in children.

**Rutka J:** Canadian Neurological Science Federation Congress, Penfield Lectures: Recent Advances in Pediatric Epilepsy Surgery: Penfield Would be Proud, Quebec City, Province of Quebec, Canada, June 2010. Invited Lecturer/Presenter.

**Rutka J:** American Association of Neurological Surgeons (AANS), Rolling Meadows, Illinois, USA, March 2010. Presenter: Genomics of medulloblastoma: From giemsa-banding to next-generation sequencing in 20 years.


Rutka J: Wake Forest University, School of Medicine, BTCOE Retreat, Winston-Salem, North Carolina, USA, September 2009. Present and future management of malignant brain tumors.


Taylor M: 18th Biennial Meeting on Brain Tumor Research and Therapy, Travemunde, Germany, May 2010. Medulloblastoma comprises four diseases.

Taylor M: Erasmus Medical Center, Cancer Symposium, Rotterdam, The Netherlands, May 2010. Molecular divergence and parallel evolution during leptomeningeal dissemination of human and murine medulloblastoma results in bicompartamental disease.

Taylor M: German Cancer Research Center (DFKZ), Distinguished Lecture Series, Heidelberg, Germany, May 2010. Clonal selection and parallel evolution during the dissemination of human and mouse medulloblastoma: Is it time to shift the focus of medulloblastoma research?


Taylor M: Keystone Symposium on Integration of Developmental Signaling Pathways, Victoria, British Columbia, Canada, March 2010. Invited Speaker: A role for histone lysine methylation in the pathogenesis of medulloblastoma?

Taylor M: Memorial Sloan-Kettering Cancer Center, Brain Tumor Center Seminar Series, New York, New York, USA, March 2010. Clonal selection and parallel evolution during leptomeningeal dissemination of medulloblastoma in humans and mice.


Taylor M: Massachussetts General Hospital, 9th Annual Frye-Halloran Symposium on Brain Tumor Biology, Boston, Massachussetts, USA, October 2009. Talk: Role of epigenetics in the pathogenesis of pediatric brain tumors.


RESEARCH AND INVESTIGATIONS


Chemical genomics of brain tumor stem cells. Rottapel R, Dirks P, and many others. Ontario Institute for Cancer Research (OICR)/Terry Fox Selective Therapeutics. [$305,000 2009 – 2012]

Defining cancer stem cell and clonal heterogeneity in mouse brain tumours. Dirks P: Canadian Cancer Society Grant. [$548,000 2009 – 2013]


Ontario Institute of Cancer Research Genesis Project (cancer stem cells). Dick J, Dirks P, and many others: Ontario Institute of Cancer Research (OICR). ($750,000 2008 – 2013 / $150,000 prorated for 2009-10)


Role of histone lysine methylation in medulloblastoma and cerebellar development. Taylor M: Canadian Institutes of Health Research. ($540,219 2010 – 2013)


The role of aberrant HGF/cMET signaling in medulloblastoma. Rutka JT: Canadian Cancer Society. ($378,000 2008 - 2011)

The role of isochromosome 17q in medulloblastoma. Rutka JT, Dirks P, Taylor MD, Tabori U: Pediatric Brain Tumor Foundation. ($1,198,800 2008 - 2011)


**HONOURS RECEIVED**

Dirks P: Doctor of the Year, by the Annual Herbie Fund Mistletoe Ball. 2009.


Taylor M: Gold Medal Award in Surgery from The Royal College of Physicians and Surgeons of Canada. 2009.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. B.A. Alman  Professor  (Division Head)
Dr. S. Hopyan  Assistant Professor
Dr. A. Howard  Associate Professor
Dr. L. Murnaghan  Assistant Professor
Dr. U.G. Narayanan  Assistant Professor
Dr. R.B. Salter  University Professor
Dr. J.H. Wedge  Professor
Dr. J. Wright  Professor
Dr. R. Zeller  Associate Professor

PUBLICATIONS


Bederman SS, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: Referral practices for spinal surgery are poorly predicted by clinical guidelines and opinions of primary care physicians. Medical Care: September 2010: 48(9): pp 852-858.


INVITED VISITS


Alman B: Canadian Institutes for Health Research, New Primary Investigator Meeting, Jackson’s Point, Ontario, Canada, November 2009. What cancer teaches us about arthritis: Hedgehog signaling in chondrocytes.


Alman B: University of Hong Kong, Mini Symposium on Developmental Biology, Hong Kong, PRC, October 2009. From tumors to arthritis: Hedgehog signaling in chondrocytes.


Narayanan U: Shriner’s Hospital and Montreal Children’s Hospital, Sainte-Justine Paediatric Orthopaedic Review Course (SPORC), Montreal, Province of Quebec, Canada, March 2010.

Narayanan U: Cairo University, Cairo, Egypt, February 2010. Lecturer.


Narayanan U: Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio, USA, August 2009. Visiting Professor: (1) Evidence-based medicine: A prescription for pediatric orthopaedic surgeons, (2) Cerebral palsy: The big picture, (3) Whose life is it anyway? Measuring what’s meaningful for children with severe disabilities.


Wedge JH: 6th Annual International Paediatric Orthopaedic Symposium, Orlando, Florida, USA, December 2009. Presenter: Pearls for reduction and casting, and imaging afterwards (MRI, etc.)


Wedge JH: Canadian Orthopaedic Association, 2010 Annual Meeting, Ian MacNab Lecture, Edmonton, Alberta, Canada, June 2010. Presenter: Evidence medicine on orthopaedics; are we there yet?

Wright J: Cleveland Clinic Department of Orthopaedic Surgery, 2010 Research and Basic Science Days, Cleveland, Ohio, USA, June 2010. Visiting Professor/Guest Speaker: (1) Area variation to disparity: A 20-year journey, (2) Evidence-based medicine: Beyond the tipping point.

Wright J: University of Calgary, Department of Surgeon’s Day, Calgary, Alberta, Canada, June 2010. Adjudicator: (1) Evidence-based orthopaedics: Beyond the tipping point, (2) From area variation to disparity: A 20-year journey for orthopaedic grand rounds.


Wright J: Brigham & Women’s Hospital, Boston, Massachusetts, USA, April 2010. Presenter/Grand Rounds Guest Speaker: Evidence-based medicine: Beyond the tipping point.

Wright J: The Canadian Orthopaedic Foot and Ankle Society (COFAS), 9th Biennial Foot and Ankle Symposium, Adolescent Foot Pathology, Toronto, Ontario, Canada, April 2010. Presenter: (1) Update in pediatric clubfoot management, (2) Pediatric pes planus non-operative versus operative treatments.


Wright J: Ontario Health Authority (OHA), Medical Staff Management Conference, Toronto, Ontario, Canada, February 2010. Speaker/Presenter (with Bill Carter and Dr. Kerry Bowman): Ethics and the media.


Wright J: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), Roundtable on Enhancing Clinical Trials in Orthopaedics and Osteoarthritis, Bethesda, Maryland, USA, December 2009. Speaker.


Cancer stem cell: Musculoskeletal tumour project leader and clinical outcomes project leader. Alman BA, Dick J Ontario Institute for Cancer Research. ($759,000 2008 - 2012)


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


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

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


Proximal-distal positional identity in the mammalian limb bud. Hopyan S: March of Dimes-Basil O’Connor Starter Scholar Research Award grant. ($150,000 2008 – 2010 / $50,000 prorated for 2009-10)

HONOURS RECEIVED

Hopyan S: Angela Kuo Awards from the Pediatric Orthopaedic Society of North America (with monetary prize of $29,614), 2009.

Narayanan U: 2009 External Faculty Teaching Award (Postgraduate) for Developmental Pediatrics Program, from the University of Toronto, Faculty of Medicine.


Wedge J: Named one of the ‘100 Alumni of Influence’ at the Centennial of the Faculty of Arts and Science, University of Saskatchewan. November 2009.

Wright J: Institute of Public Administration of Canada (IPAC)/Deloitte Public Sector (Canada) Leadership Award for The Canadian Pediatric Surgical Wait Times Project. 2009.
DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. G. Borschel  Assistant Professor
Dr. H.M. Clarke  Professor
Dr. D.M. Fisher  Assistant Professor
Dr. C.R. Forrest  Professor  (Division Head)
Dr. T. Gordon  Professor
Dr. C.Y. Pang  Professor
Dr. J.H. Phillips  Associate Professor
Dr. R.M. Zuker  Professor

PUBLICATIONS


**INVITED VISITS**

**Borschel GH:** American Association of Hand Surgery/American Society for Peripheral Nerve/American Society of Reconstructive Microsurgery [AAHS/ASPN/ASRM], Fort Lauderdale, Florida, USA, January 2010. Guest Speaker: Advances in brachial plexus paralyses reconstruction.

**Borschel GH:** European Plastic Surgery Research Council, 1st Annual Meeting, Hamburg, Germany, August 2009. Guest Speaker in recognition of the Clifford C. Snyder, MD – Past Chairman’s Award for Best Resident Presentation to Dr. Amy M. Moore (as her faculty mentor).

**Clarke HM:** Cincinnati Children’s Hospital, Brachial Plexus Conference 2010, Cincinnati, Ohio, USA, June 2010. (1) Surgical management of obstetrical brachial plexus palsy, [2] Keynote Address: Assessment and decision making in obstetrical brachial plexus palsy.

**Clarke HM:** National Guard Hospital, Residency Training Programme, Riyadh, Saudi Arabia, June 2010. The management of obstetrical brachial plexus palsy.

**Clarke HM:** King Saud University, College of Medicine/Department of Surgery, 10th Annual Research Conference, Riyadh, Saudi Arabia, May 2010. Visiting Professor: The management of obstetrical brachial plexus palsy.


**Clarke HM:** 15th World Congress of International Confederation for Plastic, Reconstructive and Aesthetic Surgery, New Delhi, India, December 2009. Obstetric brachial plexus palsy [Master Class].

**Clarke HM:** International Confederation for Plastic, Reconstructive and Aesthetic Surgery (IPRAS), 15th World Congress, New Delhi, India, November 2009. (1) Obstetric brachial plexus palsy [Master Class], [2] Intra-pelvic femoral nerve reconstruction in the pediatric population.


**Fisher D:** 46th Brazilian Congress of Plastic Surgery, Sao Paolo, Brazil, November 2009. Guest Speaker: Cleft lip and ear reconstruction.


**Fisher D:** American Society of Human Genetics, Honolulu, Hawaii, USA, October 2009. Poster Presentation: Developing a clinical genetics approach to cleft lip and/or palate.


**Fisher D:** University of Sydney/Royal North Shore Hospital, 5th International Congress on Auricular Reconstruction, Sydney, Australia, September 2009. Invited Guest Speaker and International Committee Member – (UPDATE - as of April 2, 2009, due to current financial crisis, the meeting has been postponed until further notice - updated details to follow).

**Fisher D:** Operation Smile, Norfolk, Virginia, USA, August 2009. Guest Speaker/Expert Panel Reviewer of resident case presentations on unfavorable results in cleft lip and palate surgery.


Forrest C: University of California Los Angeles, School of Medicine, Los Angeles, California, USA, October 2009. Visiting Professor.


Forrest C: Case Western Reserve University, Cleveland, Ohio, USA, 2009. Visiting Professor.


Zuker R: McGill University, Plastic Surgery Training Programme, Montreal, Quebec, Canada, June 2010. Lecturer: Facial paralysis reconstruction in children.

Zuker R: Montreal Children’s Hospital, Montreal, Quebec, Canada, June 2010. Distinguished Speaker: The broad brush of reconstructive microsurgery.


HONOURS RECEIVED

Fisher DM: Honorary Member of the Association of Plastic and Reconstructive Surgeons of South Africa (APRSSA). October 2009.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics

A transgenic rat expressing GFP in peripheral nerves. Borschel G, Moore AM, Mackinnon S: Plastic Surgery Educational Foundation, Pilot Research Grant. ($10,000 2009 – 2010)


The role of anti-osteogenic signalling in the pathophysiology of craniosynostosis in infants. Forrest C: KomedyPlast. ($5,000 2009 / $2,500 prorated for 2009-10)

The role of anti-osteogenic signalling in the pathophysiology of craniosynostosis in infants. Forrest C: Plastic Surgery Educational Foundation. ($8,000 2009 / $4,000 prorated for 2009-10)

The role of anti-osteogenic signalling in the pathophysiology of craniosynostosis in infants. Forrest C: The Physicians’ Services Incorporated Foundation (PSI). ($25,000 2009 / $12,500 prorated for 2009-10)

Use of a tissue engineered nerve graft to improve nerve regeneration. Borschel G, Gordon T: Comprehensive Research Experience for Medical Students (CREMS), Summer Program, 2010 Research Fellowships (Mr. Collin Nguyen, U of T medical student, will develop new methods of imaging regeneration following nerve injury) ($2,750 June – August 2010)

Use of microspheres to enhance regeneration following nerve injury in a rat hindlimb model. Borschel GH, Gordon T: Comprehensive Research Experience for Medical Students (CREMS), Summer Program 2010, Research Fellowships. ($2,750 June 2010 – Aug 2010 / $917 prorated – declined)

HONOURS RECEIVED

Clarke H: Senior Fellow, Massey College, University of Toronto, Canada. 2009


Forrest C: ASMA Best Paper Award in the Best Research Category for ‘Radiation-Induced Craniofacial Bone Growth Inhibition: In Vitro Cytoprotection in the Rabbit Orbitozygomatic Complex Periosteum-Derived Cell Culture.’ 2009.
DIVISION OF UROLOGY

Dr. D. J. Bägli  Associate Professor
Dr. W.A. Farhat  Associate Professor
Dr. A.J. Lorenzo  Assistant Professor
Dr. J.L. Pippi Salle  Professor  (Division Head)

PUBLICATIONS


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INVITED VISITS


Bägli DJ: University of Michigan, Disorders of Sexual Differentiation, Research and Quality Improvement Symposium, Ann Arbor, Michigan, USA, April 2009. Guest Speaker.


Pippi Salle J: University of British Columbia/Canadian Pediatric Endocrine Group, Calgary, Alberta, Canada, March 2010. Keynote Speaker: Initiatives to improve outcome in the management of DSD.


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


Molecular determinants of carcinogenesis in bladder augmentation in a novel animal model. Bägli Dj: The Hospital for Sickkids Research Institute. ($3,000 2009)


HONOURS RECEIVED

Renew Sinai is our hospital’s multi-year capital redevelopment project to create, expand and modernize our space. Redevelopment of the perioperative program is next in line, and as a result a working group has been meeting regularly with a health care architecture team to draw up plans for our new space which will include new operating rooms and perioperative resources. The first phase of Renew Sinai has just built and shelled in 6 new floors on top of the Murray Street wing of the hospital to house the Women’s and Infants’ Health Program. As soon as this space is internally completed and the Women’s and Infants’ Health Program moves, we will begin our exciting surgical redevelopment. As a lead up to this major surgical undertaking, but also realizing that it will be at least a few years away, we constructed a Same Day Surgical Admission Unit adjacent to the Main Operating Rooms which has already made a major positive impact for patients and their families on the day of surgery. This was made possible by two generous donors.

Patient safety and access remain major focuses throughout the hospital and particularly within the Department of Surgery. At the Hospital’s Quality and Patient Safety Retreat in June, there were two outstanding presentations representing the surgical program. Dr. Jay Wunder discussed implementation of the Mount Sinai Hospital Surgical Safety Checklist which was facilitated by holding educational patient safety rounds for the entire surgical program. Compliance with the surgical safety checklist is now another of the publicly reported safety indicators by the Ministry of Health. Dr. Robin McLeod leads the Best Practices in General Surgery (BPtGS) program which has brought together all the University of Toronto teaching hospitals to standardize practice guidelines across general surgery. Robin showed positive results of improvements in patient outcomes as a direct result of this initiative.

The surgical oncology program and arthroplasty groups once again provided leadership within the Toronto Central LHIN by successfully increasing surgical volumes beyond our target and improving patient wait times.

Many members from our hospital’s Sarcoma Program were nominated to work on the Sarcoma Expert Panel which developed a working document for Cancer Care Ontario (CCO) and the Ministry of Health on how to improve sarcoma patient care throughout the province, as well as rectify deficiencies in case funding, especially for limb salvage surgical procedures and sarcoma chemotherapy, both of which are expensive and poorly remunerated.

We were awarded Ontario’s first Peritoneal Malignancy Program under the joint partnership of Mount Sinai Hospital, University Health Network, Sunnybrook Health Sciences Centre and Cancer Care Ontario. It has taken a lot of institutional cooperation and backroom political intervention leading to the creation of this program. This will allow patients to receive cytoreductive surgery with intraperitoneal hyperthermic chemotherapy locally, without having to be sent abroad to the USA for treatment.

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

**DIVISION OF GENERAL SURGERY**

Andrea McCart was promoted to Associate Professor in the Department of Surgery at the University of Toronto, and is head of the new Ontario Peritoneal Malignancy Program. Rebecca Gladdy was chosen as this year’s recipient of the Bernard Langer Surgeon Scientist Award. Carol Swallow completed successful terms as President of
the Canadian Society of Surgical Oncology, and Chair of the Royal College Specialty Committee for General Surgical Oncology. Helen MacRae is Chair of the American College of Surgeons’ Association of Program Directors Committee. Robin McLeod holds the Angelo and Alfredo De Gasperis Families Chair in Colorectal Cancer and IBD Research. Robin continues to do an outstanding job as Surgical Lead for Quality Improvement and Knowledge Transfer at Cancer Care Ontario. Robin was the Gallie Lecturer at the Annual Canadian Association of General Surgeons Meeting and discussed “Improving the Quality of Cancer Surgery - The Cancer Care Ontario Experience.” Robin also won the Robert Beart Impact Paper of the Year Award from the American Society for Colon and Rectal Surgeons. Zane Cohen received the Longstanding Achievement Award in IBD Research from the Division of Gastroenterology at the University of Toronto. One of the general surgery final year residents, Fayez Quereshy, received the Bernard Ghert Award for Excellence in patient focused care.

Dr. Irving Rosen in the Division of General Surgery helped facilitate a philanthropic donation by Mr. Mark Daniels and the Head and Neck Cancer Foundation of Canada to establish the Rosen-Daniels Visiting Professorship in Surgical Oncology Translational Research. This year’s Rosen-Daniels professor was Dr. Hans de Wilt, a surgical oncologist from the Netherlands. He presented on: Intrapерitoneal chemotherapy for peritoneal-based malignancies: preclinical and clinical considerations; Complications of pelvic exenteration; and Isolated perfusion techniques for extremity and liver malignancy: from bench to bedside.

DIVISION OF ORTHOPAedic SURGERY

Peter Ferguson won the Aikens Award for the best medical student teacher at the University of Toronto. Peter also runs the Competency-Based Curriculum (CBC) stream of the Orthopaedic Residency Program as part of his role as the Associate Program Director. The first year of this program has been very successful and the second group of CBC trainees started in July. Oleg Safir completed his Masters of Education and was promoted to Assistant Professor. Oleg received an educational research grant from the Network of Excellence in Simulation for Clinical Teaching and Learning. Oleg is also the co-Director of the new University of Toronto Young Adult Hip Clinic. David Backstein won the Silver Shovel Chute Award which is voted on by the 4th year medical class for excellence in clinical teaching in the undergraduate medical program. David was a co-applicant on two successful educational grants from the Network of Excellence in Simulation for Clinical Teaching and Learning. David also remains the Director of Undergraduate Education and Director of the Surgical Clerkship for the Department of Surgery and has continued to make major improvements to the medical school’s surgical curriculum. One of Jay Wunder, Peter Ferguson and Ben Deheshi’s clinical fellows, Kurt Weiss, won the award for the best paper at the Inaugural Orthopaedic Fellowship Research Day. Jay Wunder, together with Carol Swallow from General Surgery, was awarded a Canadian Foundation for Innovation Grant (CFI) to support Sarcoma Research Infrastructure at the Lunenfeld Research Institute at Mount Sinai Hospital. Ben Deheshi from the sarcoma group left Toronto at the end of June 2010 to pursue a more clinically-based practice at McMaster University in Hamilton, Ontario.

DIVISION OF UROLOGY

Ethan Grober received grants from the Medical Council of Canada, The Physicians’ Services Incorporated Foundation (PSI), and The Association for Surgical Education (CESERT) to continue his investigations into the acquisition and evaluation of surgical skills, and particularly to determine the correlation between these findings and patient outcomes. Kirk Lo was co-applicant on a successful CIHR grant investigating meiotic defects in infertile men undergoing assisted reproductive technologies. Kirk was on the program committee for the Annual Meetings of the American Society of Reproductive Medicine [the largest fertility meeting in the world] and the American Society of Andrology. Keith Jarvi received a grant from the Canadian Cancer Society Research Institute to identify novel prostate cancer biomarkers by studying semen proteomics. Keith received a patent for his finding that specific semen proteins can be used as biomarkers for male infertility. As a direct result of this patent, he was awarded a grant from the MaRS Innovation Proof of Principle Program to develop a non-invasive test which could be commercialized for identifying sperm production in men with infertility. Keith is also on the editorial board of the Canadian Urological Association Journal (CUAJ) and is the secretary of the Society for the Studies in Male Reproduction. Alex Zlotta retained his high profile presence in urologic oncology, being an invited speaker at 11 meetings this year. His oncology research group was awarded a second and larger CIHR grant to study the role of kallekreins as prognostic factors in prostate cancer. Alex remains an Associate Editor for European Urology and is on the faculty of the European School of Urology.
DIVISION OF GENERAL SURGERY

Dr. T. Cil  
Assistant Professor

Dr. Z. Cohen  
Professor

Dr. A.M. Easson  
Assistant Professor

Dr. R.A. Gladdy  
Assistant Professor

Dr. R. Gryfe  
Assistant Professor

Dr. I. Koven  
Associate Professor

Dr. H.M. MacRae  
Associate Professor

Dr. J.A. McCart  
Assistant Professor

Dr. R.S. McLeod  
Professor

Dr. C.J. Swallow  
Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Cohen Z: American Society of Colon and Rectal Surgeons, Annual Meeting, Minneapolis, Minnesota, USA, May 2010. Oncologic outcome in ulcerative colitis patients with dysplasia or cancer who underwent stapled or hand sewn ileal pouch anastomosis.

Cohen Z: 12th International Congress on Advances in Medicine, Guadalajara, Mexico, February 2010. Quality indicators in colon and rectal surgery.

Cohen Z: Hospital Del Carmine Los Angeles, Guadalajara, Mexico, February 2010. The World’s Health Organization checklist - is it for real?


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McCart JA: Canadian Society of Surgical Oncology, Montreal, Quebec, Canada April 2010. Panelist: Symposium on Peritoneal Based Malignancy.


McLeod RS: Turkish Surgical Association, Ankara, Turkey, December 2009. (1) Evidence-based practice in surgery, (2) Translational research: From the bench to the patient.


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


A provincial audit to assess the quality of MRI for the staging of rectal cancer in Ontario. Al-Sukhni E, Kennedy ED, McLeod RS, Milot L, Fruitman M, Victor JC: American Society of Colon and Rectal Surgeons. ($20,000 2010 - 2011)

Assessment of the relief of symptoms after the drainage of ascites: An evaluation of four questionnaires. Easson AM, Bezjah 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)

Career development award. Gladdy RA: American Surgical Association Foundation Fellowship. ($150,000 2008 - 2010)

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, Andrulis I, Wranaj J, Dennis J: The Syndey C. Cooper Program for the Prevention of Cancer Progression. ($1,000,000 2008 - 2011)
Evidence-based reviews in surgery. McLeod RS: Ethicon and Ethicon Endosurgery, an unrestricted educational grant. ($275,000 1999 - 2011)

Evidence-based reviews in surgery. McLeod RS: Ethicon Endosurgery. ($150,000 2005 - 2011)


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


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


Scientist 1 (80% research, 20% clinical). Gladdy RA: Ontario Institute for Cancer Research. ($350,000 2008 - 2013)


HONOURS RECEIVED

Cohen Z: Long Standing Achievement in Inflammatory Bowel Disease (IBD) Research, from the University of Toronto, Division of Gastroenterology. November 2009.

Gladdy RA: Bernard Langer Surgeon Scientist Award, Department of Surgery, University of Toronto. May 2010.


Swallow CJ: First Prize, McMurrich Award. May 2010.
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. L. Murnaghan  Assistant Professor
Dr. A.E. Gross  Professor
Dr. O. Safir  Assistant Professor
Dr. J.S. Theodoropoulos  Lecturer
Dr. T. Willett  Lecturer
Dr. J.S. Wunder  Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Backstein D: Zimmer Orthopaedics: Primary and Revision Total Hip Solutions, Vancouver, British Columbia, Canada, September 2009. Diagnosis and treatment of THA infection.

Bell RS: Canadian College of Health Service Executives, GTA Chapter, Continuing Education Event, Toronto, Ontario, Canada, April 2010. What do physicians want?

Bell RS: Canadian Medical Association, CEO Panel at the 2010 Meeting of the Canadian Society of Physician Executives, Toronto, Ontario, Canada, April 2010. Personality split: Physician, leader and "the administration."

Bell RS: Information Technology Association of Canada, 8th Annual Healthcare Leaders Innovation and Policy Forum, Toronto, Ontario, Canada, April 2010. Wait times and access targets: How are we doing? What lessons have we learned?


Bell RS: Ontario Hospital Association, Annual Convention, Toronto, Ontario, Canada, November 2009. Hospital-physician relationships: What does the future hold?


Gross AE: Zimmer Institute, Knee and Hip Symposium, Toronto, Ontario, Canada, May 2010. Invited Faculty, Pre-TKA and primary and revision knee and hip solutions.


Wunder JS: Asia Pacific Musculoskeletal Tumor Society (APMSTS), 8th Meeting, Cebu, Philippines, February 2010. (1) Improving morbidity for soft tissue sarcoma: The therapeutic ratio, (2) Unraveling the genetics of cartilage neoplasia leads to novel therapeutic opportunities for the management of chondrosarcoma.

Wunder JS: IGLOOS Orthopaedic Oncology Meeting, Morzine, France, USA, January 2010. Difficult clinical scenarios in orthopaedic oncology.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


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


HONOURS RECEIVED

Backstein D: Dean A.L. Chute Award, The Silver Shovel, by the University of Toronto Medical Society (winner is selected by the fourth year class and presented to the undergraduate teacher who is deemed to have demonstrated excellence in overall clinical teaching in the undergraduate medical program). April 2010.

Backstein D: Nominee for the W.T. Aikens Award for course/program development and coordination category. April 2010.

Ferguson PC: W.T. Aikins Faculty Teaching Award for Outstanding Teaching in a Small Group Setting. May 2010.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. N.H. McKee  Professor

PUBLICATIONS


DIVISION OF UROLOGY

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

PUBLICATIONS


INVITED VISITS


Jarvi K: Canadian Fertility and Andrology Society, Montreal, Quebec, Canada, November 2009. Lifestyle factors and male infertility.

Lo KC: Society for Study of Male Reproduction, American Urological Society, San Francisco, California, USA, June 2010. Stem cells - can we grow sperm?

Lo KC: Canadian Fertility and Andrology Society, Montreal, Quebec, Canada, November 2009. In vitro sperm maturation.

Zlotta AR: Asociacion Española De Urologia, Rising Stars in Urology, Granada, Spain, May 2010. Hormonal therapy for prostate cancer and beyond: Why, how to and when to intervene?

Zlotta AR: European Association of Urology/Confederacion Americana de Urologia (CAU), Joint Session (Sponsored by Pierre Fabre Medicament), EAU-Management of the Small Renal Mass, Barcelona, Spain, April 2010. (A) How to Write a Manuscript and Get It Published in European Urology, ESU Course 20: (1) Clinical research original article: How to write the results and discussion sections, (2) Review article: The critical interpretation of the summarised evidence: Why is the author’s ‘touch of class’ essential to write the perfect manuscript, (B) Prostate Cancer - Screening, Diagnosis and Staging, ESU Course 8, (C) Inflammation: A common target for BPH and PCA therapies: Inflammation and BPH: A clear link?


Zlotta AR: University of Laval, Montreal, Quebec, Canada, October 2009. The management of non muscle invasive bladder cancer.


Zlotta AR: University of Montreal, Bromont, Quebec, Canada, August 2009. Prostate Cancer: Hormonal therapy: When and in which patients.

**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*


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Validation of a real-time, intra-operative, surgical competence [RISC] assessments. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. ($40,000 2009 - 2010)


HONOURS RECEIVED


Zlotta AR: Associated with the Top 3 Best Poster, Society of Urologic Oncology (SUO) Meeting, Bethesda, Maryland, USA. December 2009.
The past year has been a good one for the Department of Surgery at St. Joseph’s Health Centre. The 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. The hospital officially became a Level I Thoracic Centre with the addition of Dr. Maurice Blitz, who became our third thoracic surgeon.

A strategic decision was made by the hospital along with Cancer Care Ontario, that St. Joseph’s would comply with hepatobiliary standards and expand our existing Hepatobiliary Program. An international search was carried out for a new hepatobiliary surgeon and we hired Dr. Shiva Jayaraman to join Dr. Richard Hart in the hepatobiliary service. It is anticipated that this will allow us to receive funding for our incremental volumes in hepatobiliary surgery.

The University of Toronto Collaborative Bariatric Program began in the spring of 2009. Growth of the program throughout this year has been somewhat slow because of a shortage of patients from the Bariatric Assessment Centres. The program has been growing steadily and the integration of these bariatric procedures with the current MIS Program has been a good one. We have ramped up our volumes such that we are confident that we will meet our year-II funding targets.

The teaching program within the Department of Surgery continues to increase in both resident and student numbers. We are now receiving clinical clerks in the Surgical Program as part of their core rotations in surgery. This number is designated to increase year by year.

We have retrofitted two more operating rooms to become advanced MIS suites, which now gives us a total of 4 MIS suites out of ten operating rooms.

**APPOINTMENTS AND PROMOTIONS**

Dr. Chris Compeau was appointed Head, Division of General & Thoracic Surgery at St. Joseph’s, effective June 1, 2010. He replaced Dr. Tom Harmantas who finished his term.

Dr. Maurice Blitz joined the Division of General & Thoracic Surgery at St. Joseph’s in July of 2009 as our third thoracic surgeon.

**AWARDS**

Dr. Paul Sullivan won the Ernie Spratt Award for resident teaching in the Division of General and Thoracic Surgery, St. Joseph’s Health Centre.

Dr. Amr ElMaraghzy won the Award for Resident Teaching in the Division of Orthopaedic Surgery, St. Joseph’s Health Centre.

Dr. Leila Kasrai won the Award for Resident Teaching in the Division of Plastic Surgery, St. Joseph’s Health Centre.

Dr. Ashis Chawla won the Award for Resident Teaching in the Division of Urology, St. Joseph’s Health Centre.

**CONCLUSION**

Members of the Department of Surgery continue to work toward our vision of becoming the best community teaching hospital in Canada. We have residents and/or fellows in all of our surgical subspecialties and we continue to develop our teaching program.

Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery.
DIVISION OF GENERAL SURGERY

Dr. C. Compeau  Assistant Professor  (Division Head from June 1, 2010)
Dr. T.A. Harmantas  Assistant Professor  (Division Head to May 31, 2010)
Dr. R.S. Hart  Lecturer
Dr. D.R. Lindsay  Lecturer
Dr. L.C. Smith  Associate Professor
Dr. P.A. Sullivan  Lecturer

DIVISION OF ORTHOPAEDIC SURGERY

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

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

ElMaraghy A: Ontario Medical Association, Rehabilitation Medicine Section, 4th Annual Day in Occupational Medicine, Toronto, Ontario, Canada, April 2010. Why and how steroid injections are part of my orthopaedic practice?


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics

The efficacy of kinesiology taping versus NSAIDs in reducing shoulder pain during exercise. ElMaraghy A, Devereaux M, Quan-Velanoski K: Nucap Medical Inc. [$26,400 2009 - 2010]

HONOURS RECEIVED

El Maraghy AW: Best Clinical Teaching Award, Orthopaedic Surgery; awarded by the Department of Surgery, St. Joseph’s Health Centre. 2009.
■ DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. C. Fielding  Lecturer
Dr. L. Kasrai  Assistant Professor  [Division Head]
Dr. R.H. Levine  Professor
Dr. K.R. Wanzel  Assistant Professor

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


■ DIVISION OF THORACIC SURGERY

Dr. M. Blitz  Assistant Professor
Dr. C. Compeau  Assistant Professor
Dr. Y. Shargall  Assistant Professor  [Division Head]

PUBLICATIONS


■ DIVISION OF UROLOGY

Dr. A. Chawla  Lecturer
Dr. U. Jain  Lecturer
Dr. A. Marcuzzi  Lecturer  [Division Head]
Dr. A. McLean  Lecturer
The Department has experienced another year of success emanating from across our surgical programs. Reflecting upon 2009/2010, we embraced several notable accomplishments and changes throughout the academic year. In the clinical domain, the expansion of programs based on multidisciplinary approaches to patient care were pre-eminent. The Percutaneous Aortic Valve Program thrived under the leadership of Dr. Mark Peterson, as he coordinated the initiation of this program in collaboration with Cardiology, and Medical Imaging. Drs. Julian Spears and Loch Macdonald have continued to work in close collaboration with our radiologists, Dr. Marotta and Montenara, to expand the Neurovascular Intervention Program. The Division of Urology has continued its close collaborative efforts with Nephrology to expand the kidney transplant program, including live donor transplantation. These are a few examples of how the overlay of specialties enhances the care of our surgical patients.

In July, we welcomed Dr. Jeremy Hall to the Division of Orthopaedic Surgery. Dr. Hall is a Surgeon-Educator with a clinical interest in complex orthopaedic trauma reconstruction and research interests in simulation. We also gave Dr. Bill Tucker a wonderful retirement party as he retired from clinical practice to focus on his commitment to the Canadian Medical Protective Association.

At the St. Michael’s Hospital Annual Physicians’ Education Achievement Day, our Faculty have been recognized for their excellence in teaching by receiving a number of awards. Dr. Robert Stewart received the William Horsey Postgraduate Teaching award; Dr. John Bohnen was awarded the Donald J. Currie Teaching award for Undergraduate Teaching. The Jameel Ali Award in Continuing Education in Surgery was awarded to Dr. Emil Schemitsch for his sustained contribution to the success of the Annual Principles and Practice of Clinical Research Course. At the University level, Dr. Robert Stewart won the Bruce Tovee Award for Undergraduate Education, while Bob Mustard won the same award for postgraduate education. The Orthopaedic Chair’s Teaching Award for contributions to orthopedic education, as voted by residents, went to Dr. Daniel Whelan. Dr. Subodh Verma was awarded the Silver Shovel Chute award for his recognition as a superb educator selected by the fourth year class to the undergraduate teacher who is deemed to have demonstrated excellence in overall clinical teaching in the undergraduate medical program. Dr. Verma has also won the George Armstrong-Peters Prize and was also recognized as a "Top 40 under 40." On a national level, the Canadian Orthopaedic Association Presidential Award for Excellence went to Dr. James Waddell. On an international level, Dr. Ken Pace was honored for his contribution to the American Urological Association Leadership Program; Dr. Jameel Ali won the Diaspora Award for Excellence in Medicine from the Consulate General of Trinidad and Tobago.

Faculty members promoted to the level of Full Professor were Drs. William Tucker and John Honey, while Drs. Najma Ahmed and Ken Pace were promoted to Associate Professor.

Several faculty members have successfully achieved grants this year as described in the following pages. It is unremarkable to me that the level of commitment to improving patient care through the furthering of research is energetic. To briefly name a few of the faculty that were successful: Dr. Andras Kapus (CIHR, Operating Grant), Dr. Avery Nathens (CIHR Team Grant for Trauma System Development in Canada), Dr. Michael Cusimano (CIHR Team Grant for Traumatic Brain Injury and Violence), Dr. Wolfgang Keubler (German Research Foundation, Ontario Thoracic Society and the Heart & Stroke Foundation), Dr. Ori Rotstein (CIHR Operating Grant), Dr. John Marshall (CIHR, Therapeutic approaches for H1N1 complications in the ICU, PSI and Public Health Agency of Canada). Dr. Katalin Szaszi received an Early Researcher Award (Operating Grant) from the Ontario Ministry of Research & Innovation for her work on chronic kidney disease; Drs. Ahn and Ginsberg for their contribution to work on the
Spinal Cord Injury Network; Drs. Mahoney and Musgrave from the Ministry of Health and Long Term Care: Innovation Fund for their work on the development of a web-based tool for patient education.

We eagerly look forward to the occupancy of the Li-Ka Shing Knowledge Institute in November 2010. The Knowledge Institute will bring together leading edge research and new models of education to shape the future of surgery and medicine and bring advances to patient bedsides faster than ever before.
**DIVISION OF CARDIOVASCULAR 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**

Alghamdi AA, Elmistekawy EM, Singh SK, Latter DA:  
Is concomitant surgery for moderate functional mitral regurgitation indicated during aortic valve replacement for aortic stenosis?  
A systematic review and evidence-based recommendations.  

Badiwala MV, Verma S, Rao V:  
Surgical management of ischemic mitral regurgitation.  

Bruppacher HR, Alam SK, LeBlanc VR, Latter D, Naik VN, Savoldelli GL, Mazer CD, Kurrek MM, Joo HS:  
Simulation-based training improves physicians’ performance in patient care in high-stakes clinical setting of cardiac surgery.  

Chan CT, Lovren F, Pan Y, Verma S:  
Nocturnal hemodialysis is associated with improved vascular smooth muscle cell biology.  
E-published September 17, 2009.

Dehghani P, Ibrahim R, Collins N, Latter D, Cheema AN, Chisholm RJ:  
Post-traumatic ventricular septal defects-review of the literature and a novel technique for percutaneous closure.  

Love M, McArthur R, Peterson M, Verma S, Yau TM:  

Gupta M, Braga M, Teoh H, Tsigoulis M, Verma S:  
Statin effects on LDL and HDL cholesterol in South Asian and Caucasian populations.  

Jimenez-Juan L, Crean A, Latter D, Yan A, Kirpalani A:  
Focal caseous mitral annular calcification: Evaluation with cardiac MRI.  

Kuo LT, Chen SJ, Cherng WJ, Yang NL, Lee CC, Cheng CW, Verma S, Wang CH:  
Late reperfusion of a totally occluded infarct-related artery increases granulocyte-colony stimulation factor and reduces stroma-derived factor-lalpha blood levels in patients with ongoing ischemia after acute myocardial infarction.  

Transcatheter aortic valve implantation for the treatment of severe symptomatic aortic stenosis in patients at very high or prohibitive surgical risk: Acute and late outcomes of the multicenter Canadian experience.  

Shukla PC, Singh KK, Lovren F, Pan Y, Leong-Poi H, Errett L, Stanford WL, Schneider MD, Parker TG, Verma S:  
BRCA1 is an essential regulator of cardiac function.  

Effect of angiotensin converting enzyme inhibition on C-reactive protein levels: The ramipril CRP randomized evaluation (4R trial results).  

Yan RT, Yan AT, Anderson TJ, Buitheiu J, Charbonneau F, Title L, Verma S, Lonn EM:  
The differential association between various anthropometric indices of obesity and subclinical atherosclerosis.  
RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


A prospective study to compare the functionality of HDL-cholesterol to limit endothelial dysfunction in South Asian versus Caucasian patients with atherosclerosis. Verma S, Teoh H: Heart and Stroke Foundation of Ontario. ($50,000 2008 - 2010)


Comparison of the inflammatory response to cardiopulmonary bypass between South Asians and Caucasians. Trop S, Verma S: The Physicians’ Services Incorporated Foundation. ($20,000 2009 - 2011)

DJ-1 in signalling in human cardiac ischemia reperfusion. Yanagawa B, Verma S: The Physicians’ Services Incorporated Foundation. ($20,000 2010 - 2012)


Evaluation of BRCA1 as a novel therapeutic strategy for endothelial dysfunction and atherosclerosis. Verma S: Canadian Institutes of Health Research. ($149,998 2009 - 2010)

Li Ka Shing collaborative program. Verma S, Slutsky A, Mamdani M: Li Ka Shing Collaborative program. ($3,000,000 2009 - 2012)

Neuregulin and endothelial function. Tang GHL, Verma S: The Physicians’ Services Incorporated Foundation. ($20,000 2010 - 2012)

Neuregulin-1 as a novel treatment for endothelial dysfunction and atherosclerosis. Verma S: Heart and Stroke Foundation. ($160,000 2009 - 2010)


Primary cARe AuDIt of Global risk Management (PARADIGM study). Gupta M, Verma S: AstraZeneca Canada. ($4,200,000 2008 - 2010)


Role of the tumor suppressor gene BRCA1 in adverse cardiac remodeling: In vivo integrative studies in cardiac specific BRCA1 knockout mice. Szmitko PE, Verma S: The Physicians’ Services Incorporated Foundation. ($20,000 2008 - 2010)

Traineeship in atherosclerosis program. Verma S: Canadian Rx&D companies. ($3,000,000 2006 - 2010)

HOOURS RECEIVED


Verma S: George Armstrong-Peters Prize, University of Toronto, Department of Surgery. May 2010.

Verma S: Silver Shovel Chute Award, University of Toronto. April 2010.

DIVISION OF GENERAL SURGERY

Dr. N. 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. R.L. George  Associate Professor
Dr. T. Grantcharov  Assistant Professor
Dr. A. Kapus  Professor
Dr. S. Kitto  Assistant Professor
Dr. J. Koo  Associate Professor
Dr. W.M. Kuebler  Associate Professor
Dr. B. Lawless  Assistant Professor
Dr. J.C. Marshall  Professor
Dr. R.A. Mustard  Associate Professor
Dr. A.B. Nathens  Professor (Division Head)
Dr. O.D. Rotstein  Professor
Dr. K. Szaszi  Assistant Professor

PUBLICATIONS


Ahmed N: Reflection as a method to teach and evaluate in the professional role. rcpsc.medical.org/canmeds/bestpractice/submissions: October 2009.


**INVITED VISITS**


Ali J: Queen Elizabeth Hospital, Emergency Department, Bridgetown, Barbados, December 2009. Gave 2 prehospital trauma life support provider courses and 1 prehospital trauma life support instructor course.


Ali J: Fujairah Hospital, United Arab Emirates, October 2009. Gave 2 ATLS provider courses and 1 instructor course for physicians from Lebanon and Nigeria.
Ali J: Newfoundland Trauma Program (organized by Dr. Boone, Medical Director), St. John’s, Newfoundland, Canada, October 2009. Taught: Advanced trauma life support course.


Baxter N: American College of Surgeons, Colon and Rectal Cancer Postgraduate Course, Chicago, Illinois, USA, October 2009. Optimal lymph node harvest, is there a number?


Bohnen JMA: Canadian Surgical Chairs Group, Toronto, Ontario, Canada, November 2009. The Royal College - processes and plans for general surgery.


George RL: Toronto Breast Cancer, Breast Care Symposium: Issues in Primary Care, Toronto, Ontario, Canada, June 2010. If it’s not cancer, what is it?


Kuebler WM: University of Tennessee Health Science Center, Memphis, Tennessee, USA, May 2010. Role of nitric oxide in lung edema.


Lawless B: Canadian Critical Care Forum, Annual Scientific Meeting, Toronto, Ontario, Canada, October 2009. (1) Session Moderator of Surge Capacity Planning: Real time data collection, coordination and management.


Marshall JC: German Society for Anesthesiology and Intensive Care Medicine, 8th World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany, March 2010. (1) Abdominal sepsis and organ failure, (2) Diagnostic assessment of endotoxin in diverse clinical states, (3) Albumin resuscitation in septic shock: Not yet, (4) Neutrophil survival in sepsis: The caspase-8 survivalsome.


Marshall JC: Society of Critical Care Medicine, 39th Annual Congress, Miami, Florida, USA, January 2010. (1) Should we use biomarkers to guide sepsis care, (2) Should sepsis bundles be mandated?


Marshall JC: European Society of Intensive Care Medicine, 22nd Annual Congress, Vienna, Austria, October 2009. From the Canadian Critical Care Trials Group (CCCTG) to International Forum of Acute Care Trialists (InFACT).


Marshall JC: Deutsche Sepsis-Gesellschaft, 4th International Congress Sepsis and Multiorgan Dysfunction Weimar, Germany, September 2009. (1) Theragnostics - a logical advance for sepsis clinical trials, (2) How I manage the patient with sepsis, (3) Use of the SIRS criteria contributed to the failure of sepsis trials: Pro.


Nathens AB: AtlantiCare Regional Medical Center, 12th Annual Trauma Symposium, Atlantic City, New Jersey, USA, May 2010. Trauma Quality Improvement Program (TQIP).


Nathens AB: London Health Sciences Centre, “Talk Trauma” Nursing Conference, London, Ontario, Canada, April 2010. Trauma system development in Ontario - getting the right person, to the right place at the right time.

Nathens AB: American Association for the Surgery of Trauma, Pittsburgh, Pennsylvania, USA, October 2009. Update on Trauma Quality Improvement Program (TQIP).

Nathens AB: Center for Excellence in Critical Care, Update in Critical Care 2009, Minneapolis, Minnesota, USA, September 2009. Trauma care regionalization: The journey from practice to policy.


Rotstein OD: National Champions’ Consultative Meeting, Toronto, Ontario, June 2010. SIAI Guidelines applied to practice in the Canadian surgical setting (Session Speaker/Moderator/co-Chair).

Rotstein OD: German Society for Anesthesiology and Intensive Care Medicine (DGAI), 8th World Congress on Trauma, Shock, Inflammation and Sepsis in conjunction with the 23rd SIS-European Congress on Surgical Infections and the 2nd Interdisciplinary Summit on Inflammation, Munich, Germany, March 2010. (1) Damage control in patients with severe abdominal sepsis, (2) Role of sphingolipids in regulation of LPS signaling.

Rotstein OD: King Khalid University Hospital, College of Medicine, 5th Annual General Surgery Conference, Riyadh, Saudi Arabia, February 2010. (1) Management of intra-abdominal infection: Focus on antimicrobial use, (2) Management of acute pancreatitis.


Rotstein OD: Second Military Medical University, Shanghai, People’s Republic of China, November 2009. Regulation of toll like receptor 4 during shock.


Szaszi K: University College Dublin, Department of Pharmacology, Dublin, Ireland, November 2009. Regulation of Rho during inflammation in the tubular epithelium: Filling GAPs and GEFs.


**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*

A long-term, randomized, comparative, survival, porcine model study evaluating effectiveness of adhesiolysis [adhesion re-formation]: Transtracheal NOTES versus laparoscopy. *Baker J, Grantcharov T, Dubcenco E: Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR).* ($42,000 2010 - 2011)


Access to trauma care in Canada: A national comparison. *Hill A, Nathens AB, Fowler RA: Canadian Institutes of Health Research, Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award.* ($57,000 2008 - 2011)


Assessing the quality of colonoscopy: Validation of quality indicators. **Tinmouth J, Baxter NN, Rabeneck L, Paszat LF; Sutradh R:** Canadian Cancer Society Research Institute. ($165,863 2009 - 2012)


Biofluid mechanics and cellular physiology in the alveolus and its capillaries. **Kuebler WM, Pries A, Affeld K, Kertzscher U:** Deutsche Forschungsgemeinschaft (German Research Foundation). ($376,490 2009 - 2011)

Biofluid mechanics and cellular physiology in the alveolus and its capillaries. **Kuebler WM, Pries A, Affeld K, Kertzscher U:** Deutsche Forschungsgemeinschaft (German Research Foundation). ($376,490 2009 - 2011)


Comparing three different non-technical skills assessment tools in the postoperative setting. **Grantcharov, T, Sharma B:** The Physicians’ Services Incorporated Foundation. ($19,200 2010 - 2011)


Crisis in the general surgery work force: Identifying barriers to career satisfaction and opportunities to manage attrition among residents and practicing general surgeons. **Ahmed N, Pandya A, Nathens A:** Canadian Association of General Surgeons, Research Award. ($10,000 2008 - 2009)

Cross talk between the EGF and TNF receptors in kidney tubular cells. **Szaszi K:** Kidney Foundation of Canada, Biomedical Research Grant. ($100,000 2009 - 2011)


Development of interfacility transfer criteria for major trauma. **Nathens AB:** St. Michael's Hospital, Medical Services Association. ($33,750 2010 - 2011)

Emboli sm: Methodology, Epidemiology and Treatment In Critical care Study (PE-METRICS). **Cook DJ, Marshall JC:** Heart and Stroke Foundation of Canada. ($41,653 2009 - 2010)

Epithelial-myofibroblast transition: An unexpected role for Smad3. **Kapu S:** The Kidney Foundation of Canada. ($47,500 2009 - 2010)

Establishing stakeholder research priorities for measuring the quality of trauma care. **Stelfox HT, Nathens AB, Gruen S, Straus S:** Canadian Institutes of Health Research. ($19,984 2010 - 2011)


From data to daily practice: An integrative approach to improving trauma centre access in rural regions. **Haas B, Nathens AB, Gagliardi A:** Canadian Institutes of Health Research, Fellowship. ($100,000 2010 - 2012)
From National Surgical Quality Improvement Program (NSQIP) to Trauma Quality Improvement Program (TQIP) - Trauma Quality Improvement Project. Shahid S, Nathens A: Agency for Healthcare Research and Quality. ($887,489 2009 - 2012)


Is GEF-H1 a central coordinator of proliferation and migration in tumor cells? Szaszi K: Grant Miller, Cancer Research Grant [University of Toronto]. ($20,000 2009)


Knowledge translation of surgical innovations: Exploring development, implementation and evaluation of robotic and simulation training programs. Gagliardi A, Strauss S, Grantcharov T: Canadian Institutes of Health Research, Operating Grant. ($60,000 2010 - 2011)


Mechanism of TNF-1-induced tubular injury: Rho-dependent disruption of the intercellular junctions. Szaszi K: Canadian Institutes of Health Research. ($324,000 2009 - 2011)


Planning meeting for the PRECISE phase III resuscitation trial. McIntyre L, Marshall JC: Canadian Institutes of Health Research, Program - Meetings, Planning and Dissemination Grant: International. ($12,500 2010)

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


Regulation of epithelial paracellular permeability by apical transport processes. Szaszi K: National Sciences and Engineering Research Council, Operating Grant. ($180,000 2006 - 2011)

Regulation of intercellular contacts in kidney tubular epithelium. Szaszi K: Kidney Foundation of Canada, Kidney Research Scientist Core Education and National Training [KRESCENT] Program, New Investigator Award ($120,000 2007 - 2010)
Regulation of intercellular contacts in kidney tubular epithelium. Szaszi K: Kidney Foundation of Canada, Kidney Research Scientist Core Education and National Training (KRESCENT) Program, New Investigator Award. ($180,000 2007 - 2010)

Regulation of vascular permeability by sphingolipids. Kuebler WM, Uhlig S: Deutsche Forschungsgemeinschaft (German Research Foundation). ($144,000 2007 - 2010)


Structures and processes of care in colorectal cancer surgery (SPoCCS) study. Urbach D, Baxter NN, Simunovic M, Gagliardi A: Canadian Institutes of Health Research. ($1,047,225 2008 - 2013)


Team in training for trauma: Developing an interdisciplinary, simulation-based human factors training curriculum for general surgery residents. Ahmed N, Hicks M: University of Toronto, Education Development Fund. ($6,825 2010 - 2011)

The Collaborative H1N1 Adjuvant Therapy (CHAT) Trial: Rosuvastatin versus placebo as adjuvant therapy for severe H1N1 infection. Marshall JC, Burns KEA, Smith OM, Chant C, Rubenfeld G, Fowler RA: Canadian Institutes of Health Research, Program: Therapeutic approaches for H1N1 complications in the intensive care unit. ($200,000 2009 - 2010)


Therapeutic potential of oral LF1166910 in 2 rodent models of pulmonary hypertension. Kuebler WM: Solvey Pharmaceuticals. ($120,000 2009 - 2010)


Trauma system design: An evaluation of structure and process. Nathens AB, Morrison LJ, Rubenfeld G: Canadian Institutes of Health Research, Operating Grant. ($139,287 2008 - 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)

Vasodilatory effect of RO5024118 in the pulmonary circulation. Kuebler WM: Hoffmann-LaRoche Inc. ($80,000 2009 - 2010)

Venous thromboembolism after endovascular cooling in patients with brain injury (VTECool study). Charbonney E, Gray S, Honorato C, Nathens AB: St. Michael’s Hospital, Trauma Neurosurgery Program. ($2,000 2009 - 2010)

HONOURS RECEIVED

Ahmed N: Nominee for The Royal College of Physicians and Surgeons’ 2009 Best Program Director Award [to be awarded at the International Conference in Residency Education on September 2009.] July 2009.

Ali J: Diaspora Award for Excellence in Medicine, presented by the Consul General Office of Trinidad and Tobago, Toronto. September 2009.

Bohnen JMA: Donald J. Currie Undergraduate Teaching Award, St. Michael’s Hospital. June 2010.

Burnstein MJ: Colorectal Cancer Champion, Cancer Care Ontario, Toronto Central LHIN. April 2010.


Rotstein OD: Certificate of Appreciation from the Canadian Association of General Surgery for service to the Society as Chair, Sponsorship Committee. August 2009.
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.A. Schweizer  Assistant Professor
Dr. J.S. Spears  Assistant Professor
Dr. W.S. Tucker  Associate Professor

PUBLICATIONS


INVITED VISITS


Macdonald RL: Neurosurgical Society of America, 63rd Annual Meeting, Pebble Beach, California, USA, April 2010. Flow diversion: surgery, endovascular or molecular. Where will we be in 10 years?


Macdonald RL: Loma Linda University School of Medicine, Department of Neurosurgery, 3rd International Conference on Intracerebral Hemorrhage, Palm Springs, California, USA, March 2010. A murine model of human chronic subdural hematoma.


Macdonald RL: The Southwest Hospital of the Third Military Medical University and The Changhai Hospital of the Second Military Medical University, organized by the International Cerebral Vasospasm Committee, 10th International Conference on Cerebral Vasospasm, Chongqing, China, October 2009. [1] Effects of clazosentan on microthrombosis following experimental subarachnoid hemorrhage, [2] Loss of long-term potentiation in the hippocampus after experimental subarachnoid hemorrhage in rats, [3] Uncoupling of endothelial nitric oxide synthase (eNOS) after subarachnoid hemorrhage.


Spear JS: Neurosurgical Society of America, Pebble Beach, California, USA, April 2010. Flow diversion: Surgery, endovascular or molecular. Where will we be in ten years?


**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*

Analysis of CONSCIOUS-1 database. **Macdonald RL: Actelion Pharmaceuticals.** ($65,000 2009 - 2010)


Calcium channels in cerebral vasospasm. **Macdonald L: The Physicians’ Services Incorporated.** ($158,000 2007 - 2009)


CIHR team grant in traumatic brain injury and violence. **Cusimano M, Schweizer TA, Mann R, Tator C, et al: Canadian Institutes of Health Research, Team Grant.** ($1,733,131 2010 - 2015)


Cognitive deficits after experimental subarachnoid hemorrhage. Macdonald RL, Levine A (Undergraduate Student, University of Western Ontario): University of Toronto, Institute of Medical Science, Summer Undergraduate Student Research Award. ($4,800 2009)


Development of a prediction model for intracranial aneurysm recanalization risk after endovascular treatment. Spears J: Heart and Stroke Foundation. ($64,000 2008 - 2009)


Effect of bilateral scalp nerve blocks on post-operative pain and discharge times in patients undergoing supratentorial craniotomy and general anesthesia. Rigamonti A, Cusimano MD: The Physicians’ Services Incorporated Foundation. ($120,000 2009 - 2011)


Importance of vasospasm in determining outcome after subarachnoid hemorrhage. Macdonald RL, Khezri N (University of Toronto medical student): Comprehensive Research Experience for Medical Students (CREMS) Summer Program. ($4,000 2009)


Neurocognitive, neuroimaging and functional profile of patients after aneurysmal subarachnoid hemorrhage. Macdonald RL, Schweizer T, Sherwin CL (Chair of Research): Brain Aneurysm Foundation. ($15,000 2009 - 2010)


Pituitary disorders centre for excellence. Cusimano MD, Andrew M, Anderson J: Alternative Funding Program Innovation Fund. ($33,000 2010 - 2011)

Preventing recurrence of chronic subdural hematomas. Macdonald RL, Tang E: St. Michael's Hospital. ($4,000 2009)

Research start-up grant. Schweizer TA: St. Michael's Hospital. ($18,000 2007 - 2010)


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, MOP-7949. ($270,444 2006 - 2010)


HONOURS RECEIVED


Cusimano MD: Nominated for the St. Michael’s Hospital, Board of Director’s Complete Physician Award. May 2010.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. H. Ahn  Assistant Professor
Dr. E.R. Bogoch  Professor
Dr. T.R. Daniels  Associate Professor
Dr. J. Hall  Assistant 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


Ahn H: International Society for Fracture Repair/International Osteoporosis Foundation, Monaco, Monte Carlo, December 2009. (2) It’s not the size...but the number of events that counts, (2) Systematic review and critical analysis of the vertebroplasty randomized controlled trials.


Ahn H: Styker Spine USA and Europe, Bourdeaux, France, October 2009. Minimally invasive approaches to spinal decompression and fusion.

Ahn H: Stryker Spine USA, North-South Spine Debate, Raleigh, North Carolina, USA, September 2009. (1) Debate Forums - CON: For a degenerative L4/5 spondylolisthesis with neurogenic claudication, only a decompression is needed, (2) Health care reform would be better with a single federally funded payer system.

Ahn H: Canadian Medical Education/Orthopaedic Trauma Care, Principles and Practise of Clinical Research Course, Mississauga, Ontario, Canada, September 2009. Guest Speaker: Grades of recommendation (GRADE Approach) to the clinical literature.


Daniels TR: Canadian Orthopaedic Association – Canadian Orthopaedic Foot and Ankle Society (COA-COPAS), Edmonton, Alberta, Canada, June 2010. Tips and tricks #6: Foot and ankle made easier.

Daniels TR: Integra European Headquarters, Hintegra from 10 Years and Beyond, Lyon, France, May 2010. (1) Day One [Users meeting]: My worst case, (2) My most difficult case - valgus/varus/ligamentous instability/fixed equinus position/fixed supination deformity, (3) TAR together with knee replacement at the same time - would I do it?, (4) Day Two [all levels meeting]: My results with hintegra TAR, (5) My personal experience on TAR - why did I change to Hintegra?, (5) My most satisfied patient.


Daniels TR: Canadian Orthopaedic Association [COA], Whistler, British Columbia, Canada, July 2009. Opening-wedge versus proximal chevron osteotomy for hallux valgus with increased intermetatarsal angle.

Daniels TR: Canadian Orthopaedic Association – Canadian Orthopaedic Foot and Ankle Society [COA/COFAS], Instructional Course Lecturers [ICL]: Foot and Ankle, Whistler, British Columbia, Canada, July 2009. Triple fusion - Tips and tricks with video highlights.


McKee MD: University of Texas - Baylor College of Medicine/Houston Orthopaedic Society, Grand Rounds, Houston, Texas, USA, June 2010. Visiting Professor.


McKee MD: University of Maryland - Shock-Trauma Unit, Grand Rounds, Baltimore, Maryland, USA, January 2010. Visiting Professor.


Schemitsch EH: Osteosynthesis and Trauma Care Foundation, Fragility Fracture Leadership Forum, Amsterdam, Netherlands, June 2010. Meeting Organizer.


Schemitsch EH: British Trauma Society, May 2010. (1) Guest Lecturer, (2) Periprosthetic fractures around the knee, (3) Use of bone substitutes in orthopaedic trauma.

Schemitsch EH: 5th Annual San Francisco Trauma Course, San Francisco, California, April 2010. (1) Supracondylar humans fractures, (2) Bone grafts and aspirates: Does it matter where I harvest?, (3) Indications for advanced radiographic studies.


Schemitsch EH: Osteosynthesis and Trauma Care (OTC) Canada, Upper Extremity Trauma: Problems and Solutions, Vancouver, British Columbia, Canada, November 2009. (1) Course co-Chair, (2) Moderator, (3) Case presentations, (4) Comminuted distal humerus fracture, (5) Lab demonstrator, (6) Lab leader: Distal humerus ORIF.


Waddell JP: McMaster University, 3rd Annual Principles and Practice of Clinical Research Course, Mississauga, Ontario, September 2009. Keynote Speaker: Clinical research: Could [should?] everybody be doing it?


Whelan DB: Conmed/Linvatec, Pan-Am Clinic Knee Arthroscopy Course, Winnipeg, Manitoba, Canada, April 2010. Multiligament knee injury - Assessment and results.


Whelan DB: McMaster University, 1st Annual Hip Health 2009, Mississauga, Ontario, Canada, November 2009. Faculty Member: Hip arthroscopy in the young adult.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics

A randomized evaluation of immobilization in external rotation in the management of acute interior dislocations of the shoulder [ERAADS]. Whelan DB, Holtby R: American Shoulder and Elbow Surgeons. ($20,000 2010 - 2012)


A randomized trial of cannulated screws versus sliding hip screws for femoral neck fractures. FAITH Investigators: The Physician’s Services Incorporated (PSI). ($93,000 2008 - 2010)


A randomized trial of cannulated screws versus sliding hip screws for femoral neck fractures. FAITH Investigators: Canadian Institutes of Health Research. ($1,780,737 2010 - 2014)


A randomized trial of fluid lavage in open wounds. FLOW Investigators: McMaster University, Department of Surgery. ($12,630 2008 - 2010)

A randomized trial of fluid lavage in open wounds. FLOW Investigators: Orthopaedic Trauma Research Program. ($953,924 2008 - 2010)

A randomized trial of fluid lavage in open wounds. FLOW Investigators: Canadian Institutes of Health Research. ($1,748,487 2009 - 2013)


A randomized trial of hemiarthroplasty versus total hip arthroplasty for femoral neck fractures. HEALTH Investigators: Canadian Institutes of Health Research. ($139,423 2008 - 2010)

A randomized trial of non-operative versus operative treatment of acromioclavicular joint injuries. McKee MD, Schemitsch EH, Canadian Orthopaedic Trauma Society: Orthopaedic Trauma Association. ($50,000 2007 - 2010)

A randomized trial of total hip arthroplasty versus hemi arthroplasty for femoral neck fractures. Bhandari M, Schemitsch EH, Health Investigators: Canadian Institutes of Health Research. ($139,423 2008 - 2010)

Ankle arthroplasty and ankle arthrodesis - Prospective gait analysis compared to controls. Daniels TR, Singer S, Kleijman S, Finsker E, Khan R: Canadian Orthopaedic Association/The Canadian Orthopaedic Residents Association (COA/CORA): BioMimetic Therapeutics Foot and Ankle Travel Award. ($3,000 2009 - 2010)

Augment injectable pivotal trial. Daniels TR: BioMimetics. ($150,000 2009 - 2010)

Biomechanical properties of hydroset with and without tobramycin in the augmentation of lateral tibial plateau fractures. Ahn H, Schemitsch E: Stryker USA. ($20,000 2009 - 2010)


Cartiva implant for hallux rigidus. Daniels TR: Carticept Medical, Inc. ($150,000 2009)
Cell-based gene therapy in orthopaedic trauma. *Schemitsch EH, Nauth A, Li R: Canadian Institutes of Health Research. ($18,500 2009)*

Cell-based gene therapy to accelerate fracture healing. *Schemitsch EH, Li R, Stewart D, Von Schroeder H: Osteosynthesis and Trauma Care Foundation. ($50,000 2007 - 2010)*


Effect of mesenchymal stem cell-based gene transfer of VEGF and eNOS on healing of a segmental bone defect. *Nauth A, Li R, Schemitsch EH: Osteosynthesis and Trauma Care Foundation. ($10,000 2008 - 2010)*

Effect of multiple and delayed administrations of cell-based vascular endothelial growth factor (VEGF) gene therapy administrations on a segmental bone defect. *Qamirani E, Li R, Schemitsch EH: Osteosynthesis and Trauma Care Foundation. ($10,000 2008 - 2010)*

Endothelial progenitor cells for healing and angiogenesis in a segmental bone defect model: A comparison with mesenchymal stem cells. *Nauth A, Schemitsch EH, Li R: Osteosynthesis and Trauma Care Foundation. ($10,000 2009 - 2011)*

Endothelial progenitor cells for healing and angiogenesis in a segmental bone defect model: A comparison with mesenchymal stem cells. *Schemitsch EH, Nauth A, Li R: Orthopaedic Trauma Association. ($25,000 2009 - 2011)*

Gait analysis of total ankle replacement patients. *Daniels TR: Integra Life Sciences. ($60,000 2009)*

Gait analysis of total ankle replacement patients. *Daniels TR: Integra Life Sciences. ($60,000 2010)*


Implementation and evaluation of collaborations between SHSC, AHSCs, Criticall and the LHIN in spinal care: A demonstration study to enhance acute spinal triage and patient care. *Ahn H, Ginsberg H, Yee A, Fehlings M: Ministry of Health Innovation Fund. ($60,000 2009 - 2011)*


Microfracture technique and its effectiveness for osteopenic versus sclerotic bone. *Whelan DB, Marks P, Theodoropoulos J, Hurtig M: Canadian Arthritis Network. ($240,000 2009 - 2011)*

Osteoporosis exemplary care program. *Bogoch ER: Alliance for Better Bone Health. ($20,000 2010)*


Regulation of VEGF expression during cell-based gene therapy for bone healing. *Schemitsch EH, Li R: Osteosynthesis and Trauma Care Foundation. ($50,000 2008 - 2011)*


Setting a new benchmark for collaborative trials in trauma: The rationale, design, and execution of the study to prospectively evaluate intramedullary nails in tibial shaft fractures. *SPRINT Investigator: Kappa Delta Award. ($20,000 2010 - 2011)*

Trial to re-evaluate ultrasound in the treatment of tibial fractures. Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D, TRUST Investigator: 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 - 2010)

What is the fracture patient’s role in receipt of osteoporosis investigation and treatment? Sale J, Beaton DE, Bogoch ER, Gignac MA, Hawker GA, Jaglal SB, Meadows LM: Canadian Institutes of Health Research. ($60,000 2010 - 2011)

HONOURS RECEIVED


Daniels TR: BioMimetic Therapeutics Foot and Ankle Travel Award of $50,000.00 established in honour of the COFAS [Dr. T. Daniels] to be presented to the Best Foot and Ankle Research Paper at annual COA/CORA meetings. July 2009.

Daniels TR: Director, Postgraduate Education, Department of Surgery, St. Michael’s Hospital. July 2009.


Daniels TR: Inaugural Head of the new Foot and Ankle Program at UofT. July 2009.

Daniels TR: Semi-finalist, Goldner Award by The American Orthopedic Foot and Ankle Society (AOFAS) for Best Basic Science Paper accepted for presentation at the summer meeting. July 2009.


Schemitsch EH: Kappa Delta Award ($20,000), Sprint Investigators 2009/10. January 2010.


Whelan DB: Orthopaedic Chair’s Teaching Award for contributions to orthopaedic education as voted by the residents. April 2010.
DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

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

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


HONOURS RECEIVED

DIVISION OF UROLOGY

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

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear 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: Sanofi-Aventis [study cancelled, funds transferred to next study.]  ($100,000  2007 - 2009)

The Canadian StoneBreaker Trial: A randomized, multicentre trial comparing the LMA stonebreaker and the Swiss lithoClastR during percutaneous nephrolithotomy.  Chew B, Honey RJ, Pace KT: LMA Urology, USA.  ($13,000  2009 - 2011)

HONOURS RECEIVED


Stewart R: A.W. Bruce Award for Undergraduate Education, Division of Urology, University of Toronto.  2010.

Stewart R: Bruce Tovee Award for Undergraduate Education, Department of Surgery, University of Toronto.  2010.

Stewart R: William Horsey Award for Postgraduate Education, Department of Surgery, St. Michael’s Hospital.  2010.
DIVISION OF VASCULAR SURGERY

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

INVITED VISITS


During 2009 – 2010 Sunnybrook continued to experience significant growth physically with the M Wing expansion nearing completion. The Department continued to benefit from incremental wait time funding and remained well-aligned with the Institution’s strategic focus. The Hospital grappled with the demand for in-patient beds by instituting the “Drive to 95 [percent occupancy],” a plan to optimize patient flow and increase utilization of outpatient resources. The surgical safety check-list was instituted for all surgical procedures in order to maximize patient safety.

NEW STAFF

Jean François Boileau joined the staff of the Division of General Surgery with a special interest in the treatment of breast cancer. Marc Jeschke was appointed Medical Director of the Ross Tilley Burn Unit in the Trauma, Emergency and Critical Care Program. Fiona Webster was appointed as a Scientist in the Division of Orthopaedic Surgery. Richard Jenkinson was appointed as a Surgeon-Teacher in the Division of Orthopaedic Surgery.

APPOINTMENTS AND PROMOTIONS

Barry McLellan, Sunnybrook CEO, was appointed to Full Professor for his creative professional activity in the fields of trauma care, forensic investigation, and hospital administration. Steve Ffremes was appointed as the Inaugural Dr. Bernard S. Goldman Chair in Cardiovascular Surgery. Ron Kodama was appointed Head of the Division of Urology. Robert Nam was appointed as the leader of the genito urinary site group of the Cancer program and elected Vice-President of the Medical Dental Midwifery Staff Association. Homer Tien was appointed Medical Director of the Tory Regional Trauma Centre. Frances Wright was appointed Program Director for the Surgical Oncology Fellowship. Terry Axelrod was appointed Director of Continuing Education for the Department.

Natalie Coburn, Homer Tien and Veronica Wadey had successful Continuing Appointment Reviews.

EDUCATIONAL ACTIVITY AND AWARDS

Ron Kodama received a W.T. Aikins Award [his second!] for individual teaching performance [small group category]. Richard Holtby received the Surgical Skills’ Centre Distinguished Educator Award. Calvin Law received a Peters-Boyd Academy Teaching Award for Clinical Teaching/Supervision. Oleh Antonyshyn received the William K. Lindsay Faculty Research Mentor Award.

Rob Nam received the Postgraduate Urology Teaching Award for Surgical Training and was nominated for a PAIRO Excellence in Clinical Teaching Award. Robin Richards was nominated for a Colin Woolf Award for Long-Term Contributions to Continuing Medical Education. Neil Orzech [Division of General Surgery], Justyna Wolinksa [Division of General Surgery], Amir Ibrahim [Division of General Surgery] and Grace Ma [Division of General Surgery] won Harrison Awards. Robin Richards co-Chaired and Terry Axelrod, Paul Binhammer, Rob Cartotto, Diane Nam and Stewart Wright participated in the 26th Annual Upper Extremity Update. Sherif Hanna and Calvin Law contributed to the 5th Annual Surgical Oncology Education Day. Dave Stephen participated in the 11th Annual Chicago Trauma Symposium. Andy Smith directed and Fred Brenneman, Natalie Coburn, Andrew Dueck, Sender Herschorn, Claire Holloway, Calvin Law, Homer Tien and Frances Wright participated in the 50th Annual Update in General Surgery.

RESEARCH ACTIVITY AND AWARDS

Vasu Venkateswaran received new research funding from Prostate Cancer Canada and CIHR. Paul Binhammer received funding from the American Society for Surgery of the Hand to study the impact of psychosocial factors...
and treatment choice on return to work in carpal tunnel syndrome. Diane Nam successfully competed for a Dean’s Fund New Staff Grant. Michael Kreder, supervised by Cari Whyne, received the third award in the Best Poster competition of the Sunnybrook Research Institute. Albert Yee, co-Director of the Spine Program, co-Chaired the SpineFEST Visiting Professorship. Multiple staff members of the Division of Orthopaedic Surgery participated in the 1st Annual Holland Musculoskeletal Research Day. Avi Vandersluis received a McMurrich Prize (supervised by Laurence Klotz and Vasundara Venkateswaran) at Gallie Day. Ali Zahrai (supervised by Albert Yee and others) won third prize in the Gallie Bateman Award competition.

**OTHER AWARDS AND ACTIVITIES**

Bernie Goldman received the Order of Canada for his contributions to Cardiac Surgery. Sender Herschorn was awarded the 2010 Life Time Achievement Award in recognition of "significant contributions and leadership in the field of voiding dysfunction" by the Society of Urodynamics and Female Urology at their annual meeting in St. Petersburg, Florida. The Hanna Family Chair in Surgical Oncology Research at the Odette Cancer Centre was fully funded and a search was initiated for the Inaugural Chair. Michael Ford chaired the Communication Committee of the Canadian Spine Society. Robert Nam was appointed to the AFP Management Board. Richard Reznick and Hans Kreder received Marvin Tile Distinguished Service Awards. Robin Richards, Terry Axelrod and Gideon Cohen sat on the Board of ACMS. Albert Yee co-Chaired a Strategic Planning Retreat for the University of Toronto’s Spine Program and co-ordinated the inaugural University Divisional Orthopaedic Fellowship Day. Marv Tile gave the keynote address at this event.

**RETIREMENTS AND SABBATICALS**

Fred Brenneman completed a ten-year term as Trauma Program Chief and was recognized for his successful leadership of the Program. Laurie Klotz was elected as an Honorary Member of the American Urological Association and completed a ten-year term as Head of the Division of Urology and a twelve-year term as leader of the cancer program’s genitourinary site group. Bernie Goldman and Sherif Hanna were recognized for their 30 years of service to Sunnybrook. Glen Taylor, Head of the Division of General Surgery from 1980-1986, passed away.

**CONCLUSION**

Sunnybrook surgeons value the opportunity to contribute in a positive way to the fulfillment of the institutional vision to invent the future of healthcare when “it matters most,” seeking to lead by discovery, innovation, teaching and learning. The Department remains thankful for the opportunity to play leadership roles in our Institution, 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-Nehemia
Associate 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. Maggisano
Associate Professor

Dr. F. Moussa
Lecturer

Dr. G. Papia
Assistant Professor

PUBLICATIONS


INVITED VISITS

Cohen G: Canadian Society of Cardiac Surgeons, Edmonton, Alberta, Canada, October 2009. Read with the experts: Difficult cases.


Goldman BS: Shaare Tzdek Hospital, Jerusalem, Israel, October 2009. Current issues in the CABG-PCA debate.

Goldman BS: Wolfson Medical Centre, International Board Meeting, Save a Child’s Heart, Holon, Israel, October 2009. Triage solutions for heart surgery: Solving the problems of access in a public health care system.


**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*


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


Surgical and pharmacological novel interventions to improve overall results of saphenous vein graft patency in CABG (SUPERIOR). *Femes SE, Novick R, Chu M, Singh SK: Canadian Institutes of Health Research/CANNeCTIN. ([$100,000 2009 - 2011])*

The effect of acadesine on clinically significant adverse cardiovascular and cerebrovascular events in high-risk subjects undergoing coronary artery bypass graft (CABG) surgery using cardiopulmonary bypass. *Wang XL, Femes SE: Schering-Plough Research Institute, a Division of Schering Corporation. ([$80,000 2009 - 2011])*


**HONOURS RECEIVED**

**Dueck A:** 2009 Sigvaris President’s Award for Best Venous Presentation ([with $5,000]) for ‘Assessment of Venous Duplex Reports with a Structured Audit Tool’ [Wooster D, Wooster E]. September 2009.


**Femes SE:** Goldman Chair. March 2010.

**Goldman BS:** The Order of Canada. December 2009.

**Goldman BS:** The Sunnybrook Rose Award for contributions to the hospital, foundation and medical community. July 2009.

**Papia G:** Patient Safety Scholar ($20K), Sunnybrook Health Sciences Centre, University of Toronto. September 2009.
DIVISION OF GENERAL SURGERY

Dr. J.F. Boileau  Assistant Professor
Dr. E.D. Brenneman  Associate Professor
Dr. P.T.Y. Chu  Associate Professor
Dr. N. Coburn  Assistant Professor
Dr. D.S. Fenech  Assistant Professor
Dr. S.S. Hanna  Associate Professor
Dr. C.M.B. Holloway  Associate Professor
Dr. C.H.L. Law  Associate 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. Wright  Associate Professor

PUBLICATIONS


Gagliardi AR, Wright FC: Exploratory evaluation of surgical skills mentorship program design and outcomes. Journal of Continuing Education in the Health Professions: Winter 2010: 30[1]: pp 51-56.


INVITED VISITS


Hanna SS: Soldiers’ Memorial Hospital, Grand Rounds, Orillia, Ontario, Canada, September 2009. Resection of colorectal mets.


Law CHL: North-West Toronto Oncology Group, Toronto, ON, May 2010. A multidisciplinary approach to neuroendocrine tumours (NETs): Pathology, medical oncology and surgical oncology.


Law CHL: Anesthesia and Peri-Operative Medicine Annual Conference, Mont Tremblant, Quebec, Canada, February 2010. Surgical issues in peri-operative management: A case-based panel discussion.

Law CHL: Cancer Care Ontario, Neuroendocrine Workshop, Toronto, Ontario, Canada, February 2010. The NETs clinic at the Odette Cancer Centre: Multidisciplinary referral centre.

Law CHL: Credit Valley Cancer Centre, Regional Oncology Rounds, Mississauga, Ontario, Canada, February 2010. Gastric Cancer: What is today’s surgical perspective?

Law CHL: NET Alliance, Montreal, Quebec, Canada, December 2009. NET Alliance: A new national entity to promote research and guidelines development for neuroendocrine tumours in Canada.


Rizoli S: Brazilian Society for the Integral Care of Trauma, 3rd Trauma Congress of the Paraiba Valley, Sao Jose dos Campos, Brazil, May 2010. (A) Case Presentations: (1) Trauma, (2) Fluid use in trauma, (3) Future perspectives for the management of coagulopathy in trauma, (4) Trauma systems in Canada, (B) Lecture: When to indicate embolization for pelvic trauma.


Rizoli S: Trauma Association of Canada, Annual Scientific Meeting, Halifax, Nova Scotia, Canada, May 2010. (1) Coagulopathic issues in trauma care, (2) Speaker: Early traumatic coagulopathy is associated with coagulation factor deficiency and may not be detected by prothrombin time measurement.


Rizoli S: Danish Society of Anesthesiology and Intensive Care Medicine, Intensive Care Symposium, Middlefart, Denmark, January 2010. (1) ICU trauma care, (2) Lecture: Other issues in ICU trauma care.


Rizoli S: University of Sao Paolo (USP), Encontro Paulista de Cirurgia do Figado, Vias Biliares e Pancreas, Ribeirao Preto, Brazil, November 2009. Physiopathology of trauma associated coagulopathy. Lecturer.


Rizoli S: University of Sao Paulo, Ribeirao Preto, Brazil, August 2009. Visiting Professor.


Smith A J: Queen Mary Hospital [as part of James IV Travelling Fellow], Hong Kong, December 2009. Colorectal cancer management in Ontario, Canada: Challenges and progress.


Smith A J: Markham-Stouffville Hospital Group, Markham, Ontario, Canada, July 2009. Quality improvement in colorectal cancer.


Tremblay L: Virginia Commonwealth University, Annual State Trauma Symposium, Richmond, Virginia, USA, April 2010. Trauma evaluation: Overuse of CT?


Wright F: Canadian Society of Surgical Oncology, Montreal, Quebec, Canada, April 2010. Adoption of surgical innovations - Factors influencing use of sentinel lymph node biopsy for breast cancer in Ontario.

Wright F: Southlake Regional Cancer Centre, Multidisciplinary Cancer Conferences, Newmarket, Ontario, Canada, April 2010. Where are we and where are we going?

Wright F: Canadian Melanoma Conference, Lake Louise, Alberta, Canada, February 2010. Metastatic melanoma - If and when to operate.

Wright F: Canadian Association of General Practitioners in Oncology, Toronto, Ontario, Canada, October 2009. Surgical management of melanoma.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


Career Scientist Award.  Coburn NG: Ministry of Health and Long Term Care.  ($420,000 2008 - 2013)


Does an acute care emergency surgical service [ACCESS] improve emergency room congestion, patient flow, outcomes and satisfaction? Tien H, Brenneman F, Smith A: Centre for Health Services Sciences [CHSS], Safety Scholar Program. ($20,000 2009 - 2010)


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

Factors influencing lymph node staging practice in colorectal cancer. Gagliardi A, Wright FC, Smith AJS: University of Toronto, Faculty of Medicine, Dean’s Fund. ($9,797 2006 - 2009)


Hepatic metastases from colorectal cancer in the elderly: Optimal treatment strategies. Law CHL, Yang S: Canadian Institutes of Health Research - Frederick Banting and Charles Best Canada Graduate Scholarship - Masters Award ($17,786 2009 - 2010)


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


Improving interfacility transfers of trauma patients in Southern Ontario using weekly telephone conferencing. Nathens A, Tien H, Tremblay L, Rizoli S, Brenneman V: Academic Health Sciences Centre (AHSC), AFP Innovation Fund. ($100,000 2010 - 2011)


Lumpectomy versus mastectomy or contralateral prophylactic mastectomy: An exploratory study to understand why women with early breast cancer are now choosing more extensive surgery? Covelli A, Baxter N, Wright FC, Fitch F: Canadian Breast Cancer Foundation. ($71,500 2010 - 2011)

Optimal treatment of colorectal cancer metastases in the well but elderly patients. Law CHL, Coburn NG: Colon Cancer Canada. ($50,000 2009 - 2010)


Population-based assessment of lymphadenectomy during radical cystectomy for bladder cancer in Ontario. Shapiro S, Law CHL: University of Toronto, Faculty of Medicine, Dean’s Fund. ($10,000 2006 - 2011)

Postoperative pneumonia. Redelmeier D, Tien H: Canadian Forces. ($40,000 2009 - 2010)


Should all young women (< 35) with breast cancer be treated with mastectomy? Quan ML, Baxter N, Wright FC, Rakovitch E, Hanna W, Saad R, Paszat L, Savka C: Canadian Breast Cancer Foundation. ($287,575 2008 - 2010)

The processes of care and outcomes in colorectal cancer in the United States and Canada - A population-based study. Law CHL, Coburn NG, Tan J: Colon Cancer Canada. ($45,000 2008 - 2010)
Treatment of metastatic colorectal cancer in the elderly. Law CHL, Yang S: Colon Cancer Canada. ($60,000 2009 - 2011)


**HONOURS RECEIVED**

**Coburn N:** GIRT Levy/Thomson Award for Outstanding Poster Presentation ‘Important aspects of the Esophagogastroduodenoscopy (EGD) Report for Preoperative Management of Gastric Cancer.’ February 2010.

**Law CHL:** Peters Boyd Academy Clinical Teaching Award. May 2010.

**Rizoli S:** Best Paper Award at the 2009 American Congress of Rehabilitation Medicine for ‘Women’s Health Outcomes After Traumatic Brain Injury.’ October 2009.
DIVISION OF NEUROSURGERY

Dr. L. da Costa  Assistant Professor
Dr. M. Fazl  Assistant Professor
Dr. D.A. Houlden  Assistant Professor
Dr. T. Mainprize  Assistant Professor
Dr. F. Pirouzmand  Assistant Professor
Dr. M.L. Schwartz  Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Schwartz M: World Federation of Interventional and Therapeutic Neuroradiology, Montreal, Quebec, Canada, July 2009. Is embolization counterproductive before radiosurgery for AVMs?

RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics

Molecular targeting of the RHO-GTPase pathway in human astrocytomas. Rutka J, Hynynen K, Mainprize T: Canadian Institutes of Health Research. ($790,000 2010 - 2015)

Symptomatic carotid stenosis revascularization - what’s the hold up? da Costa L: Canadian Stroke Network. ($7,000 2010)
### DIVISION OF ORTHOPAEDIC SURGERY

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Dr. M.K. Akens</td>
<td>Lecturer</td>
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<td>Dr. T.S. Axelrod</td>
<td>Professor</td>
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<tr>
<td>Dr. H. Cameron</td>
<td>Associate Professor</td>
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<td>Dr. J.C. Cameron</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. G. Fernie</td>
<td>Professor</td>
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<td>Dr. J.A. Finkelstein</td>
<td>Associate Professor</td>
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<td>Dr. M.H. Ford</td>
<td>Assistant Professor</td>
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<td>Dr. J.D. Gollish</td>
<td>Assistant Professor</td>
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<td>Dr. H. Hall</td>
<td>Professor</td>
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<td>Dr. R.M. Holtby</td>
<td>Assistant Professor</td>
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<td>Dr. H.J. Kreder</td>
<td>Professor [Division Head]</td>
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<td>Dr. B.E. Maki</td>
<td>Professor</td>
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<td>Dr. B.W. Malcolm</td>
<td>Assistant Professor</td>
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<td>Dr. P.H. Marks</td>
<td>Associate Professor</td>
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<td>Dr. J.J. Murnaghan</td>
<td>Associate Professor</td>
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<td>Dr. D. Nam</td>
<td>Assistant Professor</td>
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<td>Dr. M. Nousainen</td>
<td>Assistant Professor</td>
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<td>Dr. R.R. Richards</td>
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<td>Dr. J. Schatzker</td>
<td>Associate Professor</td>
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<td>Dr. D.G.S. Stephen</td>
<td>Associate Professor</td>
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<td>Dr. M. Tile</td>
<td>Professor</td>
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<td>Dr. V. Wadey</td>
<td>Assistant Professor</td>
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<td>Dr. F. Webster</td>
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<td>Dr. I. Weiler</td>
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<td>Dr. C. Whyne</td>
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<td>Dr. C.S. Wright</td>
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<td>Dr. A.J.M. Yee</td>
<td>Associate Professor</td>
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### PUBLICATIONS


INVITED VISITS


Cameron JC: Rocky Mountain Traumatological Society, Colorado, USA, January 2010. Surgical management of congenital dislocation of the patella.
Fernie GR: British Society of Rehabilitation Medicine (BSRM), Posture & Mobility Group (PMG), and Scottish Posture and Mobility Network (SPMN), The 4th International Interdisciplinary Conference on Posture and Wheeled Mobility, Glasgow, United Kingdom, June 2010. Collaboration in Toronto.


Fernie GR: Canadian Institutes of Health Research-Institute of Ageing (CIHR-IA); British High Commission Toronto, Canadian High Commission London (Sponsors); KFEqual; Hosted by The Cities Institute, OPENspace, The Canadian High Commission in London, The Science of Age-Supportive Built Environments Seminar, London, United Kingdom, March 2010. How to solve the every-day problems faced in later life.

Fernie GR: American Jewish Joint Distribution Committee, Israel Eshel Sub-Committee, New York, New York, USA, December 2009. From assistive devices to bringing health and support services to the homes of the elderly.

Fernie GR: Canadian Institutes of Health Research - Marketing & Communications/Institute of Musculoskeletal Health and Arthritis (CHIR-IMHA), Journalist Workshop, Toronto, Ontario, Canada, November 2009. How we can help people stay on their feet as they age.


Hall H: Center for Neurosciences, Orthopaedics and Spine (CNOS), Chamberlain, South Dakota, USA, November 2009. Degenerative spondylolisthesis.

Hall H: Summit Health, Victoria, British Columbia, Canada, November 2009. Effectiveness of a low back pain classification system.


Hall H: Huntsville General Hospital, Huntsville, Ontario, Canada, September 2009. The pain disorder patient.


Hall H: Orthohelix, Cleveland, Ohio, USA, July 2009. What surgeons want from their sales reps.


Richards RR: Ontario Medical Association, Section of Occupational Medicine, Toronto, Ontario, Canada, April 2010. Assessment of the patient with work related upper extremity disorder.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics

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)


Centre for Research in Image-Guided Therapeutics.  Hynynen K, Multiple Collaborators including Whyne CM: Canada Foundation for Innovation, Research Hospital Fund for Large Scale Institutional Endeavours.  ($14,337,919 2008 - 2011)


Control of balance reactions in the complex environments of daily life: Effects of age-related changes in visual processing and the development of novel approaches for fall prevention.  Maki BE, McIlroy WE, Pratt J: Canadian Institutes of Health Research.  ($782,042  2004 - 2010)

Data processing and performance feedback software for an advanced hand hygiene compliance system.  Fernie GR, Marquez Chin C: Ministry of Research and Innovation, Data processing and performance feedback software for an advanced hand hygiene compliance system.  ($782,042  2004 - 2010)

Development of an e-health visual-training program to improve balance and prevent falls in older adults.  Maki BE, Jadad AR, McKay S: Canadian Institutes of Health Research, Strategic Training Post-Doctoral Fellowship in Health Care, Technology, and Place.  ($18,000  2008 - 2009)


Does an interactive on-line learning program involving simulation improve medical residents’ knowledge and skills to manage patients with inflammatory arthritis?  Wadey V, McDonald-Blumer H [U of T], Cividino A [McMaster University], Wessel J [McMaster University], Levy D [McMaster University], McIlroy J [U of T], Dauphine D [McGill University]: Canadian Initiatives for Outcomes in Rheumatology Care - CIORA.  ($50,600  2009 - 2010)

Does an interactive on-line learning program, involving simulation improve medical residents’ knowledge and skill to manage patients with inflammatory arthritis?  Wadey V submitted to MERG 2009 of RCPSC on March 2, 2009.)

Does an interactive on-line learning program involving simulation improve medical residents' knowledge and skills to manage patients with inflammatory arthritis?  - A pilot study [submitted to MERG 2009 of RCPSC on March 2, 2009.  ($25,000  2009 - 2012)

Does an interactive on-line learning program involving simulation improve medical residents’ knowledge and skills to manage patients with inflammatory arthritis?  - A pilot study.  Wadey V: 2009 The Royal College of Physicians and Surgeons of Canada, Medical Education Research Grant.  ($25,000  2009)

Does an interactive on-line learning program involving simulation improve medical residents’ knowledge and skills to manage patients with inflammatory arthritis?  A pilot study in French.  Wadey V: The Royal College of Physicians and Surgeons of Canada, Medical Education Research Grant 2010.  (Submitted February 28th, 2010 - decision pending.)


Effectiveness of winter footwear on various surface conditions for use by Canadian postal workers.  Fernie GR: Workplace Safety and Insurance Board.  ($55,594  2010 - 2011)


How to accurately identify patients with inflammatory arthritis: Translation of an on-line simulation. Wadey V: Canadian Institutes of Health Research, Supplement Grant [submitted on February 28, 2010 - decision pending]. February 2010.

Identifying barriers to meeting the Ontario standards for time to treat hip fracture patients. Kreder H: Sunnybrook Medical Services, Alternative Funding Plan Association. ($75,000 2009 - 2011)

Improvement in the methods of handling human waste to reduce the probability of cross-infection in healthcare institutions: Problem analysis and concept development phase. Fernie GR, McGeer A: Ministry of Health and Long-Term Care (Ontario). ($300,000 2009 - 2011)


Lubovsky O, Whyne C, Kreder H, Beek M: Osteosynthesis and Trauma Care Foundation. ($10,000 2009)

The efficacy of new model of care for shoulder pathology: Role of advanced practice physical therapists in orthopaedics. Razmjou H, Robarts S, Kennedy D, Palinkas V, McKnight C, Holtby R: Sunnybrook Health Sciences Centre, Practice-Based Research Funds. ($12,000 2009)

The immune mediation of fracture repair. Nam D, Whyne C, Anderson M, Alman B: University of Toronto, Dean’s Fund, New Staff Grant. ($10,000 2010 - 2012)

The immune system and fracture repair. Nam D: Sunnybrook Health Sciences Centre Research Institute, Start-up Operating Funds. ($100,000 2009 - 2012)

Towards the development of a pervasive prompting system for older adults with dementia: Developing the COACH task guidance system for use in the home. Mihailidis A, Boutiller C, Cameron J, Fernie GR, Naglie G: Canadian Institutes of Health Research. ($265,155 2009 - 2012)


Which patients are most likely to benefit from total joint arthroplasty and what do they need to know? Hawker GA, Badley E, Borkhoff C, Croxford R, Davis A, Dunn S, Gignac M, Jaglal S, Kreder HJ, Sale J: Canadian Institutes of Health Research. ($359,121 2008 - 2011)

**HONOURS RECEIVED**

**Akens MK:** Young Investigators Initiative Grant Mentoring Program, United States Bone and Joint Decade. April 2010.

**Fernie GR:** Fellow, Canadian Academy of Health Sciences. September 2009.

**Holtby RM:** Award for Outstanding Contributions to Surgical Skills Education, from the University of Toronto and the Surgical Skills Centre at Mount Sinai Hospital Education. May 2010.

**Kreder HJ:** Quality Team Award 2010 to the Holland MSK Program [with me as Chief], for the development of a new model of care in the management of chronic disease that improves patient access and care. June 2010.

**Murnaghan JJ:** 3M Health Care Quality Team Award, Canadian College of Health Service Executives. June 2010.

**Nam D:** Gordon Research Conference Abstract Travel Award 2009 for ‘The Immune Mediation of Osteoblasts and Osteoclasts in Fracture Repair.’ July 2009.

**Nam D:** Inaugural Award for Best Presentation during Orthopaedic Resident Research Day, for ‘The Immune Mediation of Osteoclasts and Osteoblasts in Fracture Repair.’ November 2009.

**Richards RR:** Nominated for the Colin Woolf Award for Long Term Contributions to Continuing Education. October 2009.

DIVISION OF PLASTIC AND RECONSTRUCTIVE 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. Jeschke  Associate Professor
Dr. S. Shahrokhi  Lecturer

PUBLICATIONS


INVITED VISITS


**Antonyshyn O:** Arbeitsgemeinschaft für Osteosynthesefragen (AO) CMF, Vail, Colorado, USA, February 2010. AO CMF CPP research grant reviews.

**Antonyshyn O:** Arbeitsgemeinschaft für Osteosynthesefragen (AO) Foundation, France, 3e Cours AO Avance Francophone CMF Pathologies Orbitaires Traumatiques et Tumorales, Saint-Étienne, France, October 2009. Computer assisted orbital and periorbital reconstruction.

**Cartotto RC:** Ontario Professional Firefighters Association, Niagara Falls, Ontario, Canada, April 2010. Burn care in Ontario.

**Cartotto RC:** American Burn Association, Annual Meeting, Boston, Massachusetts, USA, March 2010. Postgraduate Course A: Protocols in ICU/Pro-Con debate, (2) Postgraduate Course A: Tight glycemic control is very necessary in burn patients.

**Fish J:** Rotary Club of East York, Toronto, Ontario, Canada, December 2009. Guest Speaker: Burn program – SJRH.

**Fish J:** National Capital Association of Plastic Surgeons, Ottawa, Ontario, Canada, November 2009. VAC use in massive wounds.

**Fish J:** Peterborough Regional Hospital, Peterborough, Ontario, Canada, November 2009. Guest Speaker: Update on the treatment of emergency room burn care.

**Fish J:** Power Worker’s Union, Update on Electrical Injury Research, Toronto, Ontario, Canada, November 2009. Presenter.

**Fish J:** Australia and New Zealand Burns Society, Wellington, New Zealand, September 2009. Keynote Address: (1) Experience with integra for complex wounds, (2) Management of electrical injury, (3) Team management in burn reconstruction, (4) Technology and the impact on burns.

**Fish J:** Australia and New Zealand Burns Association, Wellington, New Zealand, September 2009. VAC application for massive wounds.

**Fish J:** Australia and New Zealand Burns Association, Auckland, New Zealand, September 2009. Guest Speaker.

**Fish J:** Phoenix Society World Burn Congress, New York, New York, USA, August 2009. Aging in burn injury.

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**RESEARCH AND INVESTIGATIONS**  
*Investigators’ Names Appear in Italics*

A 3D statistical skull and face model: Development and application in the design and outcome analysis of craniofacial surgery.  
**Antonyshyn O, Mainprize J:** AO Craniomaxillofacial Clinical Priorities Program (CMF CPP). ($125,000 2009 - 2011)

Development of a novel method for stabilizing traumatic craniofacial injuries.  
**Whyne C, Fialkov J:** Department of Defense, Peer-Reviewed Orthopaedic Research Program (PRORP), Hypothesis Development Award. ($100,000 2009)

Finite element modeling of the human craniofacial skeleton.  
**Fialkov J, Whyne C:** Advanced Cranio-Maxillofacial Forum Research Grant. ($60,000 2010)

Impact of psychosocial factors and treatment choice on return to work in carpal tunnel syndrome.  
**Binhammer P, Anastakis D, Dvali L, Von Schroeder H:** American Foundation for Surgery of the Hand. ($16,000 2010 - 2012)

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)

Research summer studentship award.  
**Antonyshyn O, Hontscharuk R:** Sunnybrook Research Trust. ($1,600 2009)

Results of primary orbital fracture repair: An analysis of morphological and aesthetic outcomes.  
**Antonyshyn O, Fialkov J, Binhammer P, MacMillan C:** Educational Foundation of the Canadian Society of Plastic Surgeons. ($10,000 2009 - 2010)

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**HONOURS RECEIVED**

**Antonyshyn O:** W.K. Lindsay Research Supervisor Award. March 2010.
**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


Herschorn S: British Association of Urological Surgeons, Satellite Symposium on Overactive Bladder, Manchester, United Kingdom, June 2010. Fesoterodine in the management of OAB.

Herschorn S: Queen’s University, Division of Orthopaedic Surgery, Grand Rounds-Update on Surgical Treatment of Post-Prostatectomy Incontinence, Kingston, Ontario – and Skaneateles, New York, April 2010. (1) Visiting Professor at Queen’s: Challenges in major urologic reconstruction, (2) Visiting Professor in Skaneateles, New York for Upstate New York Resident Research Day [Annual Meeting of universities around Lake Ontario - Buffalo, Syracuse, Rochester, Albany and Queen’s].
Herschorn S: Le Centre hospitalier universitaire de Québec (CHUQ), Hôpital Saint-François d'Assise, Université Laval, Quebec City, Canada, November 2009. (1) Visiting Professor, (2) Performed surgery - complex urethrovaginal fistula repair, (3) Presentation: Major urologic reconstructive surgery.

Herschorn S: Societe International d’Urologie Meeting, Shanghai, China, November 2009. (1) Moderator of Workshop on Surgical Treatment of Female Stress Urinary Incontinence: Is there still a role for bulking agents?, (2) Satellite Symposium: Counting the cost of OAB and its burden on society - providing the value.


Klotz LH: Jitsu University, Tokyo, Japan, January 2010. Invited Professor.


Klotz LH: 4th World Uro Oncology Federation Conference, Shanghai, China, October-November 2009. Conference Chairman.

Klotz LH: Canadian Urology Research Consortium/CUOG Retreat (C2-R), Montreal, Quebec, Canada, September 2009. Chairman.


Klotz LH: Case Western University, Cleveland, Ohio, USA, July 2009. Visiting Professor.


**RESEARCH AND INVESTIGATIONS**

*Investigators’ Names Appear in Italics*


A multicentre, double-blind, placebo-controlled, parallel-group study of the safety and efficacy of a single treatment of botox (botulinum toxin type A) purified neurotoxin complex followed by a repeat treatment with botox as applicable in patients with idiopathic overactive bladder with urinary urgency incontinence. Carr LK: Allergan. ($18,000 2010)

A multicentre, long-term follow-up study of the safety and efficacy of two dose levels of botox (botulinum toxin type A) purified neurotoxin complex in patients with urinary incontinence due to neurogenic detrusor overactivity. Carr LK: Allergan. ($15,000 2010)

A multicentre, long-term follow-up study of the safety and efficacy of botox (botulinum toxin type A) purified neurotoxin complex in patients with idiopathic overactive bladder with urinary incontinence. Carr LK: Allergan. ($20,000 2010)

A phase III, randomized, double-blind, parallel group, placebo-controlled, multicentre study to assess the efficacy and safety of the beta-3 agonist YM178 [25mg qd and 50mg qd] in subjects with symptoms of overactive bladder. Carr LK: Astellas. ($6,000 2010)


A randomized, double-blind, parallel group, active-controlled, multicentre long-term study to assess the efficacy and safety of the beta-3 agonist YM178 [50mg qd and 100mg qd] in subjects with symptoms of overactive bladder. Carr LK: Astellas. ($5,000 2010)

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 (CURC). ($800,000 2006 - 2009)


Phase 1 evaluation of the feasibility and safety of MRI guided transurethral ultrasound therapy for localized prostate cancer, Grant #019437. Klotz L, Chopra R, Bronskill M, Sugar L: National Cancer Institute of Canada. ($154,000 2008 - 2010)


Randomized trial of polyaclrilamide gel versus collagen for female SUI. Herschorn S: Contura. ($25,000 2010 - 2011)

**HONOURS RECEIVED**

**Carr LK:** A.W. Bruce Faculty Undergraduate Teaching Award. September 2009.

**Herschorn S:** Best Clinical Presentation, awarded by the International Continence Society, for ‘Efficacy of Botulinum Toxin A Injection for Neurogenic Detrusor Overactivity and Urinary Incontinence - A Randomized Double-Blind Trial.’ 2009.

**Herschorn S:** Lifetime Achievement Award from the Society for Urodynamics and Female Urology. 2010.

**Herschorn S:** Michael Jewett Award from the University of Toronto, Division of Urology for significant contribution to the postgraduate teaching program. 2010.

**Herschorn S:** President of the Canadian Urological Association. 2010.

**Klotz LH:** Honorary Member, American Urological Association. March 2010.

**Klotz LH:** Honorary Professor 2009-2014, Central South China University, Changshaw, China. October 2009.

**Klotz LH:** President, Urologic Research Society (International URS). August 2009.

**Kodama R:** Postgraduate Resident Teaching Award - Clinical, University of Toronto, Department of Surgery, Division of Urology, June 2010.

**Kodama R:** W.T. Aikins Award – Small Group, University of Toronto, Faculty of Medicine, May 2010.

**Venkateswaran V:** C2R Young Investigator Award, from the Canadian Urology Research Consortium/Canadian Urologic Oncology Group (CURC/CUOG), in recognition of my research. September 2009.

**Venkateswaran V:** Prostate Cancer Canada/Australian-Canadian Prostate Cancer Research Alliance (PCC/AC-PCRA) Travel Award. May 2010.
INTRODUCTION

The Surgical Department of the Toronto East General Hospital has 20 surgeons including 3 Urologists, 6 Orthopedic Surgeons, 6 General Surgeons, 4 Thoracic Surgeons and 3 Plastic Surgeons.

OVERVIEW

The Toronto East General continues to be the leading community teaching hospital in Toronto as our teaching days have increased again this year with excellence recognized in TES scores and Bill Kraemer’s landmark work developing and implementing Competency Based Curriculum in the Division of Orthopedics as the Program Resident Director. The Surgical Safety Checklist has been a collaboration with Anesthesia and Nursing and fully in place. The Fractured Hip Initiative and Bariatrics are new successful initiatives this year. We have especially welcomed the integrated role with the University that the Bariatric Initiative has highlighted. This year we have been through a process aimed at developing a criteria and a model for planning and approving surgical human resources. We have had our second selection committee meeting for Plastic and Reconstructive Surgery and enjoyed the University leadership in building these bridges.

GENERAL/THORACIC SURGERY

The Bariatric Initiative has been successfully implemented this year with Jamie Cyriac and Mary-Anne Aarts heading our team. Mary-Anne is the provincial lead in outcome analysis. Hany Sawires will be leading our Time to Treat Initiative for Breast and building closer ties with the University model of Breast Cancer Diagnostics. Paul Bernick and Rob Zeldin have been awarded the Chief of Staff TEGH Excellence in Research Award 2010. TEGH was successful in building a relationship with the Royal Victoria Hospital in Barrie. This relationship will continue to grow as Cancer Care Ontario funding grows.

UROLOGY

Multidisciplinary Tumour Boards have been regularly in place this year. It is the 9th year of our Endo-urology Fellowship and PGY 4 Residents rotated electively. We are still in fundraising mode for the Da Vinci Robot. Peter Vlaovic has been teaching ASCM II for two years.
ORTHOPEDICS

We have been working collaboratively to implement the Fractured Hip Initiative successfully. Bill Kraemer was awarded the 2010 Award for Excellence in Postgraduate Medical Education in the category of Design/Innovation for his work in Building the Competency Based Curriculum. Bill Kraemer, Peter Weiler, Frank Mastrogiacomo, Gianni Mastrelli and Paul Wong received excellent TES scores. The Orthopedic TEGH Fellowship continues to rate as the highest fellowship program at U of T. Dr. Wong is a member of the University Postgraduate Resident Committee.

PLASTIC AND RECONSTRUCTIVE SURGERY

For the first time since 1984, TEGH has had PGY 3 residents rotate regularly through. This has been a big investment in teaching and Brett Beber has been our member of the University Postgraduate Resident Committee and Wellness Director. Brett has a clinic and OR time at Women’s College Hospital for Breast Reconstruction and was involved in ASCM II teaching this year. We have been involved in a Selection Committee Search for a full time Community Plastic Surgeon. Dr. Tate completed the University of Toronto Patient Safety Certificate Course.
DIVISION OF GENERAL SURGERY

Dr. M.A. Aarts  Assistant Professor
Dr. P.E. Bernick  Assistant Professor  (Division Head)
Dr. J. Cyriac  Lecturer
Dr. J. Dickie  Lecturer
Dr. T. Gilas  Assistant Professor
Dr. C. Simone  Lecturer
Dr. R. Zeldin  Assistant Professor

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


HONOURS RECEIVED

Bernick PE: TEHG Chief of Staff Choice Award in Research Leadership. May 2010.
Zeldin R: Co-winner of the Chief of Staff Excellence in Research Award, May 2010.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. M. Catre, Jr.  Lecturer
Dr. W.J. Kraemer  Assistant Professor
Dr. G. Maistrelli  Associate Professor
Dr. F. Mastrogiacomo  Lecturer
Dr. P. Weiler  Assistant Professor  (Division Head)
Dr. P. Wong  Assistant Professor

PUBLICATIONS

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Mastrogiacomo F: Bahrain Defense Hospital (BDP), Manama, Bahrain, February 2010. The evolution of hip arthroplasty.

RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


HONOURS RECEIVED


Maistrelli G: College of Physicians and Surgeons of Ontario (CPSO) recognition for contribution to the college as Physician Supervisor of the Regulation of Profession Educational Program 2009-10.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

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

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


DIVISION OF UROLOGY

Dr. R.K. Singal  Lecturer  (Division Head)
Dr. P. Vlaovic  Lecturer

INVITED VISITS


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics

The University Health Network embarked on a major organizational planning process in 2009/10 starting with a demographic assessment of projected patient care requirements in the year 2031. The planning process is expected to be completed with approval by the Board of Trustees by the end of the calendar year 2010, focusing on the 2011-16 time period. The UHN vision of “Achieving Global Impact” and the previously articulated purpose statement “We are a caring, creative and accountable academic hospital, transforming healthcare for our patients, our community and the world” were retained as guiding principles. During the year, Surgical Programs presented to Senior Management and to the Board of Trustees an update of our previous planning process entitled GATES (Growing Academically, Technologically, Efficiently and Safely). Emphasis was placed on the further development of information technology in surgical programs, technological advances in minimally invasive surgery and the guided therapeutics program, and on preparation for renovation of the Toronto Western Hospital operating rooms.

The important collaboration between UHN and the Ministries of Health and Finance resulted in the implementation of the Clinical Specialty Supply Chain initiative, which will hopefully be a model for the rest of the country in materials management.

The Multi-Purpose Operating Room (MPOR) at the TGH site was officially opened, and during the current academic year was the site of many collaborative endovascular and cardiac procedures with Vascular Surgery, Cardiac Surgery, Cardiology and, in complex cases, with Pediatric and Obstetrical Departments participating.

Markus Selzner was recruited to the Division of General Surgery and the Transplantation Program as a surgeon-scientist, adding significantly to the strong research foundation in transplantation. Leonard Tse was recruited to the Division of Vascular Surgery as a surgeon-scientist, and completed a Master’s degree in Mechanical Engineering at the University of Toronto. In the same division, Graham Roche-Nagle quickly became an important contributor to the ongoing integration between Vascular Surgery and Vascular Interventional Radiology, a unique program in vascular disease. A newly recruited scientist, Anna Gagliardi, will contribute to the outcomes program under the direction of David Urbach.

Tom Lindsay completed a very successful first term as Chair of the Division of Vascular Surgery, Shaf Keshavjee continued as Chair of Thoracic Surgery and Dimitri Anastakis as Chair of Plastic Surgery at the University. Chris Wallace also completed a successful term as Head of the Division of Neurosurgery at UHN, as did Neil Fleshner in Urology and Barry Rubin in Vascular Surgery. All underwent formal external reviews which were extremely favourable and reappointment recommended. Rod Davey and Stephanie Brister continued in their roles as Medical Director of the Operating Rooms at the Toronto Western and Toronto General sites, respectively, contributing significantly to the clinical and academic output of the department.

Magdy Hassouna, Nizar Mahomed, Vivek Rao, Tom Waddell and Terry Yau were all promoted to Full Professor, while Stephen Lewis, Eric Massicotte and Ian McGilvray were promoted to Associate Professor. Special thanks go to Chris Feindel, Gail Darling, Mark Cattral, Neil Fleshner, Paul Greig and Sid Radomski for their hard work on the Surgical Promotions Committee.

Surgeons at UHN have been productive in their research endeavours. Over the last four years, 1,556 surgical papers were published, with an average of 389 per year, 12.2 per investigator, and 3.0 per principal investigator per year. During that time, there were 11,984 cites to those papers, 7.7 per paper, 74% cited, and 18% highly cited. Eighty-three of the 1,556 papers were published in top journals with
a JIF of greater than 10, with an additional 267 (17%) in higher impact journals (JIF 5-10).

Gail Darling was named the Kress Family Chair in Esophageal Cancer bringing the UHN surgical endowed chair count to over 30.

The Cardiac Surgery Division continued its outstanding clinical work and unparalleled outcomes in especially the most complex patients in the province. Tirone David gave a variety of presentations all over the world, including the Denton Cooley Lectureship at Baylor University. Richard Weisel received a number of new and continuing grants, as well as the Scientific Achievement Award of the American Association of Thoracic Surgeons. Hugh Scully received the Canadian Medical Association’s 2010 Medal of Service Award.

Wayne Johnston received the Lifetime Achievement Award from the Society for Vascular Surgery. At the same time he became Editor-in-Chief of the Rutherford Vascular Surgery text, the primary textbook in the field, which was published this year as a web comparable textbook for the first time. Barry Rubin, in addition to beginning a second term as the Head of Vascular Surgery, continued as the provincial representative for all Alternate Funding Plan Governance Organizations in the province on the Academic Medicine Steering Committee.

Richard Reznick was elected Vice-President of Education of The Royal College of Physicians and Surgeons of Canada for a three-year term and, at the end of the academic year, was appointed as Dean of the School of Medicine at Queen’s University. Allan Okrainec pursued his unique telementoring and telesimulation of the Minimally Invasive Surgical Program in many centres around the world. He and two other general surgeons at UHN, David Urbach and Todd Penner, became integral parts of the new University of Toronto Bariatric Surgery Program.

Michael Fehlings received the prestigious Olivecrona Award from the Karolinska Institute in Stockholm for excellence and impact in the field of neurosurgery, related to his work in spinal cord injury. He also received the Leon Wiltse Award from the North American Spine Society for excellence in spine clinical research. Mark Bernstein led a neurosurgical delegation to Ghana and, along with Moji Hodaie, Eric Massicotte, a neurosurgery resident and an operating room team, spent two weeks in that country teaching and operating. Andres Lozano became a Fellow of the Royal Society of Canada, won the Winn Prize and the Donald Calne Award for Parkinson’s Disease Research, and was appointed as the new Chair of Neurosurgery at the University of Toronto. All neurosurgeons collaborated with the Ministry to offer emergency services, contributing to more efficient and safer care of patients in the emergency situation.

Stefan Hofer was appointed as Editor of the Journal of Plastic, Reconstructive and Aesthetic Surgery (JPRAS), formerly the British Journal of Plastic Surgery. He is the first non-British plastic surgeon to hold this position. The UHN Breast Restoration website was launched in December 2009 as an information resource for patients and referring clinicians. At the same time, the division published the first edition of the UHN Breast Reconstruction Patient Education booklet, with an electronic version available for downloading on the program’s website.

Tony Finelli continued his work in minimally invasive uro-oncology, John Trachtenberg in focal prostate cancer therapy was recently featured on the cover of The Journal of Urology, and Mike Jewett in his interests in kidney and testicular cancer.

Nizar Mahomed won the CIHR CMAJ Award, recognizing his leadership at 35 hospitals that introduced new procedures for hip and knee surgery, and Rod Davey was appointed co-Chair of the Joint Health & Disease Management Steering Committee for the Toronto Central LHIN. In addition, Darryl Ogilvie-Harris was appointed Director of the University of Toronto Sports Medicine Program.

A new Interventional Thoracic Surgery Program was established under the direction of Dr. Kazu Yasufuku, highlighted by the completion of a state-of-the-art interventional thoracic surgery suite at the Toronto General site. This will be important for early diagnostic and therapeutic management of lung and esophageal cancer. The Division of Thoracic Surgery formed a unique partnership with McMaster University as a joint academic and clinical program in thoracic surgery.

Eric Massicotte won the Ross Fleming Teaching Award, and Alice Wei received the Frank Mills teaching award in General Surgery.

The academic year ended with Shaf Keshavjee’s appointment as Surgeon-in-Chief, succeeding Bryce Taylor after an eleven year term.
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. Scully  Professor
Dr. R.D. Weisel  Professor
Dr. T.M. Yau  Associate Professor

PUBLICATIONS


INVITED VISITS


Cusimano RJ: Xinxiang University, 1st Medical College, Xinxiang, China, May 2010. (1) Post cardiac operative management of bleeding, (2) What’s new in cardiac surgery, (3) When and how to change the aorta.


David TE: XXXI Portuguese Congress of Cardiology, Lisbon, Portugal, April 2010. Guest Speaker: Are pericardial valves more durable than porcine valves?


David TE: Texas Heart Institute and Baylor University, Denton A. Cooley Lectureship, Houston, Texas, USA, April 2010. Lecture: Creativity in surgery.

David TE: University Hospital of Naples, Aula Magna, Naples, Italy, April 2010. Guest Lecturer: Seminario cardiologico cardiochirurgico sulla mitrale ischemica (Surgical management of ischemic mitral regurgitation.)


David TE: Hyderabad University, Hyderabad, India, February 2010. Visiting Professor: Aortic valve sparing operations: Techniques and outcomes.

David TE: Narayana Hrudayalaya Hospital, Bangalore, India, February 2010. Visiting Surgeon: Surgical demonstration and lecture on aortic root surgery.

David TE: Ocean Reef Club, Key Largo, Florida, USA, January 2010. Guest Speaker: Brain and heart inter-actions.


David TE: University of Ancona (at the invitation of Dr. Lucia Corracca), Ancona, Italy, November 2009. (1) Live teleconference: Aortic valve sparing operations for bicuspid aortic valve, (2) Lecture: Aortic valve repair.


David TE: University of Salerno (at the invitation of Professor Giuseppe Di Benedetto), Salerno, Italy, November 2009. (1) Live teleconference: Aortic valve repair, (2) Lecture: Aortic valve repair.

David TE: University of South Carolina, Surgical Grand Rounds - Creativity in Surgery, Charleston, South Carolina, USA, November 2009. (1) Horace G. Smithy Visiting Professor, (2) Moderator and discussant of research papers by 8 surgical trainees.


David TE: Vanderbilt University, School of Medicine, Division of Continuing Medical Education, Vanderbilt Valve Symposium: 21st Century, Techniques for Complex Valve Surgery, Postgraduate Course, Nashville, Tennessee, USA, October 2009. Lecture: Atrio-ventricular and aorto-ventricular dehiscence: How to avoid and treat.


David TE: University of Bordeaux (at the invitation of Professor Xavier Roques), Bordeaux, France, September 2009. Visiting Professor: Lecture and operative demonstration of aortic valve repair.


Weisel RD: CANNeCTIN Cardiac Surgery Meeting, Hamilton, Ontario, Canada, April 2010. Presentation of the IMPACT Trial.

Weisel RD: Society of Thoracic Surgeons, Fort Lauderdale, Florida, USA, January 2010. Myocardial protection with acadesine - perspective from studies in the 1990s.

Weisel RD: International Society for Adaptive Medicine, Taipei, Taiwan, August 2009. Cardiac regeneration by stem cell transplantation.

Weisel RD: Fuwai Hospital, Beijing, People’s Republic of China, July 2009. Visiting Professor: Cardiac regeneration by cell transplantation.


**RESEARCH AND INVESTIGATIONS**

**Investigators’ Names Appear in Italics**

Acadesine to reduce perioperative ischemic injury. Yau T, Weisel RD: Schering-Plough. ($100,000 2009 - 2010)

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


Cardiac regeneration: Improving the response to injury. Weisel RD, Fazel S: Heart and Stroke Foundation. ($231,726 2007 - 2010)


Facilitators and barriers to effective discharge following open heart surgery: Patients’ and nurses’ experiential accounts. Lapum J, Fredericks S, Micevski V, Yau T: Ryerson New Faculty SRC Development Fund. ($10,000 2010 - 2012)

Facilitators and barriers to effective discharge following open heart surgery: Patients’ and nurses’ experiential accounts. Lapum J, Fredericks S, Micevski V, Yau T: Faculty of Community Services Seed Grant. ($5,000 2010)

Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. Li RK: Canadian Institutes of Health Research. ($698,984 2010 - 2015)

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


The cardiac regeneration project: Quantitative cell tracking and response for cardiac regenerative approaches (CARE Project). Weisel RD, Li RK: Canadian Institutes of Health Research. ($2,182,550 2006 - 2011)


The effect of acadesine on clinically significant adverse cardiovascular and cerebrovascular events in high-risk subjects undergoing coronary artery bypass graft (CABG) surgery using cardiopulmonary bypass. Yau TM: Schering-Plough Research Institute. ($250,000 2009 - 2011)
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)


Variation in Revascularization Practice in Ontario (VRPO). Feindel C [UHN Site Investigator], Cohen E [Medical Officer, CCN], Tu J [ICES]: Ministry of Health Long Term Care. ($1,300,000 2008 - 2010)

HONOURS RECEIVED

Li RK: Mel Silverman Mentorship Award, Institute of Medical Science, University of Toronto. May 2010.

Weisel RD: Scientific Achievement Award of the American Association of Thoracic Surgeons. May 2010.
**DIVISION OF GENERAL SURGERY**

Dr. M.S. Cattral  
Professor

Dr. T. Cil  
Assistant Professor

Dr. S. Cleary  
Assistant Professor

Dr. J. Escallon  
Associate Professor

Dr. A.R. Gagliardi  
Assistant Professor

Dr. S. Gallinger  
Professor

Dr. A. Ghanekar  
Lecturer

Dr. R.M. Gorczynski  
Professor

Dr. D. Grant  
Professor

Dr. P.D. Greig  
Professor

Dr. T. Jackson  
Assistant Professor

Dr. E.D. Kennedy  
Assistant Professor

Dr. W.L. Leong  
Assistant Professor

Dr. D.R. McCready  
Professor

Dr. I.D. McGilvray  
Assistant Professor

Dr. C. Moulton  
Assistant Professor

Dr. C.A. O’Brien  
Assistant Professor

Dr. A. Okrainec  
Assistant Professor

Dr. T.P. Penner  
Lecturer

Dr. M. Reedijk  
Assistant Professor

Dr. R. 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

Dr. H. Weizel  
Associate Professor

Ms. L. Wright  
Assistant Professor

**PUBLICATIONS**


Mackay HJ, Gallinger S, Tsao MS, McLachlin CM, Tu D, Keiser K, Eisenhauser EA, Oza AM: Prognostic value of microsatellite instability (MSI) and PTEN expression in women with endometrial cancer: Results from studies of the NCIC Clinical Trials Group (NCIC CTG). European Journal of Cancer: May 2010: 46(8): pp 1365-1373.


**INVITED VISITS**


Gallinger S: Sanofi-Aventis, Thunder Bay, Ontario, Canada, November 2009. Do the ends justify the means? Pushing the envelope in liver surgery.

Gorczynski RM: European Congress of Immunology, Berlin, Germany, September 2009. Expression of a CD200 transgene is necessary for induction but not maintenance of tolerance to cardiac and skin allografts.

Grant D: University of Madison, Wisconsin, USA, April 2010. Invited Speaker: Living liver donation.


McGilvray ID: Canadian Treatment Action Committee, Toronto, Ontario, Canada, June 2010. HIV and liver transplantation.

McGilvray ID: Canadian Association for the Study of Liver Disease [CASLD], Toronto, Ontario, Canada, March 2010. HCV genomics: From bench to bedside.


Moulton CA: Eastern Ontario Education Researchers Group, Bayfield, Ontario, Canada, June 2010. Slowing down when you should: Remaining attentive in automacity...but where to from here?


Reznick RR: University of Vermont, College of Medicine, Department of Surgery, The Mackay-Page Lectureship, Burlington, Vermont, USA, April 2010. It’s a short story with a long prologue: The road to curricular change.

Reznick RR: University of Auckland, Auckland, New Zealand, March 2010. External Reviewer of the School of Medicine.


Reznick RR: Canadian Pediatric Anaesthesia Society, Toronto, Ontario, Canada, November 2009. Threats to residency training: Minor reconstruction or radical surgery?


Reznick RK: University of California, Department of Surgery, San Diego, California, USA, October 2009. Keynote Speaker: Education retreat.


Taylor B: Windsor Regional Hospital, Grand Rounds, Windsor, Ontario, Canada, January 2010. The surgical checklist.

Taylor B: McGill University, Montreal, Quebec, Canada, December 2009. The Brock Lecture: The surgical checklist - would it make a difference in my hospital?


Taylor B: Queen Elizabeth Hospital, Special Grand Rounds, Charlottetown, Prince Edward Island, Canada, October 2009. Prince Edward Island surgical community -- the surgical checklist.


Taylor B: University of Manitoba, Department of Surgery, Surgical Grand Rounds, Winnipeg, Manitoba, Canada, September 2009. Visiting Professor/Program on Interdisciplinary Trauma Rounds. Safe surgery saves lives initiative.


Wright L: Society for Transplant Social Workers, Annual Conference, Cleveland, Ohio, USA, October 2009. Transplantation ethics: Donation from living donors and ethical decision-making.

Wright L: l’Institut d’Ete en Ethique Clinique, Montreal, Quebec, Canada, August 2009. L’éthique clinique: Expériences concretes de terrain.

RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


A role for, and mechanism of action of, sCD200 in transplant graft survival. Gorczynski R: The Physicians’ Services Incorporated Foundation. ($169,000 2010 - 2012)

A shed soluble form of CD200 has prognostic and therapeutic implications in CLL. Gorczynski R: The Cancer Research Society. ($120,000 2009 - 2011)


Breast cancer risk assessment using optical transillumination spectroscopy. Lilge L, Bordeleau L, Knight JA, Lewittes LR, Lickley HLA, McCready DR: Canadian Institutes of Health Research. ($600,000 2009 - 2014)

Bridging the information gap between patients and physicians for the treatment of colorectal cancer. Kennedy E, Gagliardi AR, Urbach DR: Colon Cancer Canada. ($45,000 2008 - 2010)

Bridging the information gap between patients and physicians for the treatment of colorectal cancer. Kennedy E, Gagliardi AR, Urbach D: Canadian Institutes of Health Research. ($99,124 2009 - 2010)


CIHR team in interdisciplinary research on colorectal cancer. McLaughlin JS, 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. ($100,000 2009)
Crisis in the general surgery workforce: Identifying barriers to career satisfaction and opportunities to manage attrition among resident and practicing general surgeons. Ahmed N, Gagliardi AR, Pandya A, Teodoro L: Canadian Association of General Surgeons. ($10,000  2008 - 2009)


Developing capacity for knowledge translation: Identifying and evaluating factors that improve the effectiveness of practice guideline implementation. Gagliardi A: Canadian Institutes of Health Research.  ($300,000  2008 - 2013)


Developing interprofessional knowledge exchange capacity for health services research. Gagliardi AR, Paige CJ, Dobrow MJ: Canadian Institutes of Health Research.  ($24,093  2010 - 2011)

Developing, implementing and evaluating self-audit as a knowledge translation strategy for practice-based learning and practice guideline implementation. Gagliardi AR, Finelli A, Brouwers MC, Marlow BA, Campbell CM, Silver IL: Canadian Institutes for Health Information.  ($49,223  2009 - 2010)


Development of an integrated surgical skills course-supporting complex communication and procedural skill acquisition. Tabak D, Moulton C, MacRae H, LeBlanc V: The Network of Excellence in Simulation for Clinical Teaching and Learning (NESCTL). ($68,000  2008 - 2010)


Establishing stakeholder priorities for research on quality improvement planning and implementation. Gagliardi AR, Shojania K, Straus SE, Baker GR, Silver IL: Canadian Institutes of Health Research.  ($15,000  2009 - 2010)

Evaluating compliance with enhanced recovery after surgery procedures at a network of teaching hospitals. Okrainec A, Aarts MAW, Chung FT, Siddiqui NT, Gagliardi AR, McLeod RS: Colon Cancer Canada.  ($35,000  2010 - 2011)


Expansion of the Gattuso Rapid Clinic for Breast Cancer. McCreedy DR: Slait and Gattuso Family Foundation and Princess Margaret Hospital Foundation.  ($2,000,000  2009 - 2018)

Exploring barriers to access to care for colorectal cancer metastases. Wei A, Sandhu L, Kennedy E, Baxter N, Gagliardi AR, Urbach D: Colon Cancer Canada.  ($30,000  2009 - 2010)


Identification and development of therapeutic agents targeting solid tumor stem cells. Winberg Z, Pan J, Neel B, O’Brien C, Dirks P, Kornblum H, Eaves C, Mak T, Slamon D [This is a combined Canada-California grant, California Institute of Regenerative Medicine (CIRM); each group receives 20 million dollars over 4 years. Of the money coming to Canada, Dr. O’Brien will receive approximately 800,000-1,000,000 dollars per year. This grant involves a group of senior investigators in Toronto, San Francisco, and Los Angeles]: Canadian Institutes of Health Research and Genome Canada. ($3,500,000 2010 - 2014)


Identifying and characterizing colon cancer initiating cells. Dick J, Gallinger S: Canadian Institutes of Health Research, Fellowship Salary Support for 4 years. ($220,000 2005 - 2009)


Judgments and health innovation: How do upstream knowledge transfer and exchange among stakeholders contribute to the design of innovations? Lehoux P, Denis J, Miller F, Urbach DR, Williams-Jones B: Canadian Institutes of Health Research. ($528,453 2010 - 2013)

Judgments and health innovation: How do upstream knowledge transfer and exchange among stakeholders contribute to the design of innovations? Lehoux P, Urbach DR, Miller F, Battista R, Williams-Jones B: Canadian Institutes of Health Research. ($102,492 2008 - 2009)


Mechanism(s) for immunoregulation induced in aging by interactions of LPS and hemoglobin. Gorczynski R: CLRP Grant. ($300,000 2005 - 2009)

Molecular pathogenesis of hepatitis C viral infection. McGilvray I, Heathcote J: Canadian Institutes of Health Research. ($577,000 2009 - 2012)

Non-alcoholic fatty liver disease: Role of fatty acid composition and gene expression. Allard J, McGilvray I, Guindi M, Therapondos G: Canadian Institutes of Health Research. ($354,783 2008 - 2011)
Normothermic ex vivo liver perfusion as a novel strategy to assess and repair marginal grafts. Selzner M: Roche Organ Transplant Research Foundation (ROTRF). ($300,000 2010 - 2013)


Ontario laparoscopy telesimulation initiative. Okrainec A: Ministry of Health and Long Term Care, Innovation Fund. ($185,674 2009 - 2011)


PETCAM Trial, The impact of Positron Emission Tomography (PET) imaging prior to liver resection for Colorectal Adenocarcinoma Metastases (CAM): A prospective multicenter randomized clinical trial. Moulton C, Gallinger S: Ministry of Health and Long Term Care, Ontario. ($980,000 2005 - 2010.)

POP-CURE - Colon cancer research collaboration. Wouters B, McPherson H, Shaw P, Gallinger S, O'Brien C, Dick J (A group grant with individual PI’s heading each section. Dr. O’Brien’s main roles are heading the xenograft generation and characterization aim; and sharing a role in the functional genomics studies with Dr. Wouters): Pfizer. ($6,000,000 2009 - 2010; Year 1: $372,164 / Year 2 - approx: $400,000; exact value to be determined.)


Randomized clinical trials for breast cancer. McCready DR [PMH Site Principal Investigator]: National Adjuvant Breast and Bowel Project (NSABP). ($73,360 2009 - 2010)

Role and regulation of cancer stem cells in HCC: Implications for liver transplantation. Ghanevar A: Multi-Organ Transplant Program Academic Enrichment Fund. ($100,000 2009 - 2011)


Role of immediate DC precursors in allograft rejection and tolerance. Cattral MS: Multiorgan Transplantation Academic Enrichment Fund Competition. ($100,000 2008 - 2010)

Role of immediate dendritic cell precursors in allograft rejection and tolerance. Cattral MS: Heart and Stroke Foundation. ($230,082 2008 - 2011)

Role of immediate dendritic cell precursors in immunity and tolerance. Cattral MS: Canadian Institutes of Health Research Astellas. ($850,000 2009 - 2010)

Shared decision making for rectal cancer: Can we improve the quality of treatment decisions? Kennedy ED: Colon Cancer Canada. ($45,000 2008 - 2009)

Slowing down when you should: A new model of expert surgical judgment. Moulton C, Regehr G, MacRae H: The Physicians’ Services Incorporated. ($41,000 2007 - 2010)


Storage, assessment, and repair of liver grafts for transplantation using ex vivo liver perfusion. Selzner M: Astellas Academic Enrichment Fund. ($100,000 2010 - 2012)


The Assessment of Risk for Colorectal Tumors in Canada (ARCTIC) Genome Project. Zanke B, Hudson T, Gallinger S, Cottrerchio M, Lemmens T: Genome Canada. ($9,600,000 2004 - 2010)


The prevalence and correlates of cancer-related fatigue in colorectal, breast and prostate cancer survivors. Jones JM, Howell D, Catton P, Fleshner N, McCready DR, Olson K: Canadian Institutes of Health Research. ($100,000 2010 - 2011)

The role of cancer stem cells in hepatocellular carcinoma progression and recurrence - implications for immunosuppression after liver transplantation. Ghanekar A, Gaba M: Wyeth Pharmaceuticals. ($100,000 2008 - 2010)


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)


Using patient and physician perspectives to develop treatment decision making tools that support patient-centered care for colorectal cancer. Kennedy E, Urbach D, Gagliardi A: Canadian Institutes of Health Research. ($99,124 2009 - 2010)

Validation and characterization of candidate germline familial pancreas cancer tumor suppressor genes. Gallinger S: Princess Margaret Hospital Foundation, Invest in Research Program. ($100,000 2009)


HONOURS RECEIVED


Selzner M: American Society of Transplant Surgeons (ASTS) Faculty Development Award. May 2010.
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. C. Hamani  Assistant 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-Abdolrezae Assistant Professor
Dr. A.M. Lozano  Professor
Dr. E.M. Massicotte  Assistant Professor
Dr. C.H. Tator  Professor
Dr. M. Tymianski  Professor
Dr. T. Valiante  Assistant Professor
Dr. A.A. Velumian  Assistant Professor
Dr. M.C. Wallace  Professor (Division Head)
Dr. G. Zadeh  Lecturer

PUBLICATIONS


**INvITED ViSiTS**


Bernstein M: Brampton Civic Hospital, Grand Rounds, Brampton, Ontario, Canada, March 2010. What brain doctors can learn by talking with patients: A qualitative journey.

Bernstein M: Pelita Harapan University, Faculty of Medicine, Update on Glioma Management, Lippo Village, Tangerang, Banten, Indonesia, January 2010. Role of observation, surgery, radiation and chemotherapy.


Davis KD: Canadian Arthritis Network, Annual Scientific Conference, Vancouver, British Columbia, Canada, November 2009. Pain is in the brain but depends on individual factors.

Davis KD: Union of Physiological Sciences, 36th International Congress ([IUPS 2009], Symposium: Comprehensive Approaches to Pain- From Molecule to Organism, Kyoto, Japan, August 2009. Cortical responses to pain.


Fehlings MG: Congress of Neurological Surgeons, University Trauma Webinar Event - Web-Based Lecture Series, Toronto, Ontario, Canada, May 2010. The role and timing of surgical decompression for acute spinal cord injury.


Fehlings MG: University of Alberta, Banff, Alberta, Canada, April 2010. The challenge of chronic spinal cord injury: Can regenerative neuroscience deliver?

Fehlings MG: Cornell University/New York Presbyterian Hospital, Department of Neurology, Grand Rounds, New York, New York, USA, March 2010. Repair and regeneration of the injured spinal cord: From molecule to man.


Fehlings MG: Christopher and Dana Reeve Foundation, Reeve-Irvine Clinical Lectureship, Newport Beach, California, USA, February 2010. Advances in the pathophysiology and treatment of acute spinal cord injury: From molecule to man.

Fehlings MG: University of California, Irvine Medical Center, Department of Surgery, Grand Rounds, Irvine, California, USA, February 2010. The role and timing of surgical intervention for acute spinal cord injury: Lessons from the STASCIS study.


Fehlings MG: Karolinska University Hospital, Stockholm, Sweden, December 2009. The Herbert Olivecrona Lecture: Repair and regeneration of the injured spinal cord: From molecule to man.


Fehlings MG: International Neurotrauma Society, Santa Barbara, California, USA, September 2009. (1) Speaker/Moderator: Clinical management of acute SCI - Whiplash to SCI, (2) New technologies in research and clinical care (neuroengineering and nanotechnology).


Fehlings MG: Queen’s University, Centre for Neuroscience Studies, Kingston, Ontario, Canada, September 2009. Visiting Professor: Repair and regeneration of the injured spinal cord: From molecule to man.

Fehlings MG: Arbeitsgemeinschaft für Osteosynthesefragen Spine North America, AOSNA Fellows Induction Program, Miami Beach, Florida, USA, August 2009. (1) co-Chair: (a) Advanced Concepts in the Management of Spinal Disorders, (b) Evidence-Based Medicine and Effective Teaching, (2) Lectures: (a) How to get papers published, (b) How to set up a research program.

Fehlings MG: World Federation of Neurosurgical Societies, Boston, Massachusetts, USA, August 2009. (1) Moderator: Session 217 - Rebuilding the injured brain and spinal cord after injury: Fantasy or the future?, (2) Faculty: Practical course on neurocritical care: Talk on spinal cord injury.


Fehlings MG: The Ohio State University, Center for Brain and Spinal Cord Repair, Columbus, Ohio, USA, July 2009. Repair and regeneration of the injured spinal cord: Opportunities for clinical translation of basic science discoveries.


Guha A: World Federation of Neurological Surgeons, Boston, Massachusetts, September 2009. Management and molecular biology of MPNST.


Lozano AM: The Johns Hopkins University, The First Michael M. Ossoff Visiting Lectureship in Memory Disorders and Alzheimer’s Disease, Baltimore, Maryland, USA, May 2010. Guest Speaker: Adjusting mood and cognitive circuits with deep brain stimulation.


Lozano AM: Lahey Clinic, Burlington, Massachusetts, March 2010. Guest Speaker/16th Annual Farger Lecturer.


Lozano AM: World Federation of Neurology (WFN), XVIII World Congress on Parkinson’s Disease, Miami, Florida, USA, December 2009. (1) Spanish Language Symposium I: (a) Advances in the surgical treatment of Parkinson’s Disease, (b) Treatment of Parkinson’s disease, (2) Chair of Spanish Language Symposium II.


Lozano AM: International College of Geriatric Psychoneuropharmacology/The Johns Hopkins University School of Medicine, Department of Psychiatry and Behavioral Sciences, Annual Meeting, Baltimore, Massachusetts, USA, November 2009. The role of functional imaging and deep brain stimulating in understanding Parkinson’s disease.

Lozano AM: Montreal Neurological Institute and Hospital, 75th Anniversary Scientific Symposium: Pathways of Discovery in Neuroscience, Montreal, Quebec, Canada, November 2009. Chair of Session on CNS Regeneration: Molecular Approaches to Identify Novel Therapeutic Strategies for Nerve Repair.

Lozano AM: Quebec Association of Neurosurgeons, Annual Meeting, Mont St-Hilaire, Quebec, Canada, November 2009. Latest development in behavioural surgery, including research on DBS for depressive disorder.


Lozano AM: Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia, Roma Dopamine 2009 Meeting, Rome, Italy, September 2009. DBS for pharmaco-resistant depression.


Lozano AM: World Congress of Neurological Surgery, Boston, Massachusetts, USA, August 2009. (1) Deep brain stimulation, (2) Moderator of Psychosurgery: Dreams and Realities.

Massicotte EM: Congress of the Canadian Neurological Sciences Federation, 45th Annual Congress, Quebec City, Quebec, Canada, June 2010. (1) Chairman: Spine Course - Controversies in Spinal Neurosurgery, (2) Topics - Metastatic Spine Cancer: Indications for decompression and stabilization, role of instrumented fusion for spondyloolisthesis and indications for use of biological agents.

Massicotte EM: University of West Indies, Montego Bay, Jamaica, January 2010. (1) Caribbean Neuroscience Symposium: MASS for mets and day surgery for anterior cervical discectomy and fusion (ACDF), (2) Hands-on course.


Tator CH: University of Alberta, Faculty of Rehabilitation Medicine, Treatment Strategies for SCI: From Biology to Clinical Reality Conference, Banff, Alberta, Canada, April 2010. Intrathecal drug delivery with a polymer hydrogel provides neuroprotection after spinal cord injury.


Tator CH: Hockey Canada, Concussion Seminar, Regina, Saskatchewan, Canada, December 2009. Diagnosis and management of concussion in sports.

Tator CH: St. John’s Minor Hockey Association, Concussion Education and Awareness Seminar [via videoconference], St. John’s, New Foundland, Canada, December 2009. Diagnosis and management of concussion in sports.


Tator CH: National Neurotrauma Society, Santa Barbara, California, USA, September 2009. Global demographics of SCI.


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


A cellular and molecular strategy to unlock the regenerative reservoir of the notochordal cell: A novel approach to treat intervertebral disc degeneration. Erwin WM, Fehlings MG, Inman R: Arbeitsgemeinschaft für Osteosynthesefragen (AO) Spine International. ($30,000 2010 - 2011)

A clinical evaluation for the management of patients with chronic or recurrent treatment resistant major depressive disorder with deep brain stimulation. Kennedy S, Lozano AM: St. Jude Medical Inc. ($480,000 2009 - 2011)

A combinatorial strategy to optimize neural repair and plasticity after chronic spinal cord injury (KB1-0807-2). Karimi S, Fehlings MG, Rossignol S: Christopher and Dana Reeve Foundation. ($149,495 2009 - 2010)


Anterior thalamic nucleus stimulation in patients with epilepsy: A PET study. Andrade D, Hamani C: University Health Network. ($30,000 2009 - 2010)

Antidepressant effects of deep brain stimulation in animals: Symptom specificity and mechanisms of action. Nobrega J, Hamani C: Ontario Mental Health Foundation. ($150,000 2009 - 2011)


Attenuated NMDA receptor development in MeCP2-deficient mice: Relevance to Rett syndrome. Eubanks J, Zhang L, Brotchie J: Canadian Institutes of Health Research. ($610,225 2006 - 2011)


Canada Research Chair in Neuroscience, Tier 1. Lozano AM: Canadian Institutes of Health Research. ($1,400,000 2005 - 2012)


Deep brain stimulation in an animal model of depression. Hamani C, Nobrega J: National Alliance for Research in Schizophrenia and Depression (NARSAD), Young Investigator Award. ($60,000 2010 - 2012)


Diffusion based tractography and structural brain imaging in trigeminal neuralgia: Correlation with quantitative sensory testing and response to treatment. Hodaie M, Davis KD: The Physicians’ Services Incorporated Foundation. ($154,000 2009 - 2011)

Dopamine and synaptic plasticity in human substantia nigra pars reticulata. Hutchinson WD, Dostrovsky JO, Moro E, Hodaie M, Lozano AM: Canadian Institutes of Health Research. ($490,745 2009 - 2014)


Enhancing access of the spinal cord injury community to translational clinical research trials (R008-06). Fehlings MG: Rick Hansen Foundation. ($106,361 2009)

Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulators, using a pilocarpine seizure model. Hodaie M, Lozano A: University of Toronto, Dean’s Fund, New Staff Grant. ($9,800 2005 - 2010)

Examination of the neuroprotective role of IgG for spinal cord injury (CGM 98392). Nguyen DH, Fehlings MG: Canadian Institutes of Health Research. ($17,500 2009 - 2010)


Human studies of pain perception. Davis KD, Tenenbaum HC, Diamant NE: Canadian Institutes of Health Research. ($726,452 2007 - 2012)

Identifying biomarkers of response to anti-angiogenic therapy. Zadeh G, Menard C: Razcer Grant. ($30,000 2009 - 2010)

Investigation and treatment of traumatic axonal dysfunction after spinal cord injury [MOP-82782]. Fehlings MG: Canadian Institutes of Health Research. ($634,713 2007 - 2012)

Investigation of induced pluripotent stem cells, derived by novel, non-viral transposition reprogramming, as a regenerative strategy for spinal cord remyelination [NHG-99090]. Fehlings MG, van der Kooy D, Nagy A: Canadian Institutes of Health Research. ($299,424 2009 - 2012)

Investigation of induced pluripotent stem cells, derived by novel, non-viral transposition reprogramming, as a regenerative strategy for spinal cord remyelination. Salewski R, Fehlings MG: Ontario Neurotrauma Foundation. ($46,000 2009 - 2011)

Microenvironment induced molecular heterogeneity in glioblastoma multiforme [GBM]. Guha A: Canadian Institutes of Health Research, Grant No. 171871. ($125,000 2008 - 2012)


Neural stem/progenitor cells for remyelination and recovery in MS. Tator CH: Multiple Sclerosis Society of Canada. ($93,702 2008 - 2010)


Neuroprotection of the injured spinal cord using an anti-apoptotic molecule delivered through a novel bioengineered drug delivery system [PSIT# 08-23]. Fehlings MG, Shoichet MS: The Physicians’ Services Incorporated Foundation. ($147,000 2008 - 2010)

Neuroprotective and regenerative bioengineered approaches for the treatment of spinal cord injury [CGV-95673]. Austin JW, Fehlings MG: Canadian Institutes of Health Research, Vanier Canada Doctoral Research Scholarship to James W. Austin. ($150,000 2009 - 2012)


Neuroprotective approaches to enhance recovery in cervical spondylotic myelopathy [MOP-97852]. Fehlings MG: Canadian Institutes of Health Research. ($378,105 2009 - 2012)


On-line international educational courses in neurosurgery. Hodaie M: The Integra Foundation/Foundation for International Education in Neurological Surgery (FIENS). ($4,000 2010 - 2011)

Pathophysiology of Parkinson’s disease. Chen R, Hodaie M, Lozano AM, Moro E: Canadian Institutes of Health Research. ($949,900 2009 - 2014)


Protein nitration in traumatic and ischemic brain damage. Tymianski M: Canadian Institutes of Health Research. ($686,710 2006 - 2011)

Psychometric testing of a new scale measuring medical outcomes of dysphagia (MOD) in adult patients with swallowing disorders secondary to head and neck cancer. Martino R, Streiner D, Davis A, Fehlings M: Canadian Cancer Society Research Institute, Grant 020190. ($424,592 2009 - 2012)

Psychometric testing of a new scale measuring medical outcomes of dysphagia (MOD) in adult patients with swallowing disorders secondary to stroke, cervical spine abnormalities and head and neck cancer [MOP 93685]. Martino R, Streiner D, Fehlings MG, Davis AM, Ringash J: Canadian Institutes of Health Research. ($396,289 2009 - 2012)

Regenerative approach to intervertebral disc research. Fehlings MG: Synthes Spine Company, LP. ($210,000 2008 - 2009)

Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application. Fehlings M, Tator CH: Canadian Institutes of Health Research. ($1,500,000 2004 - 2009)

Regenerative medicine strategies of spinal cord repair. Fehlings MG, Morshead C, Shoichet MS, Stanisz G, van der Kooy D, Tator CH: Krembil Neuroscience Centre. ($1,500,000 2006 - 2011)


Role of inhibitor in apoptosis proteins [IAPs] in gliomas. Guha A: Using transgenic glioma models to explore the role of IAPs in glioblastoma multiforme (GBMs): Brain Tumor Society. ($75,000 2007 - 2009)

Role of TRPM channels in ischemic brain damage. Tymianski M: Canadian Institutes of Health Research, MOP-89720. ($900,000 2008 - 2013)


Spinal cord regeneration. Tator CH: Canadian Paraplegic Association. ($41,116 2010)


The role of TRP channels in the cellular mechanism of stroke and aging. Tymianski M, MacDonald JF: Canadian Institutes of Health Research. ($750,000 2004 - 2009)


Tissue factor in tumor progression, angiogenesis. Rak J, Guha A: National Cancer Institute of Canada, Grant No. 018173. ($117,000 2007 - 2010)

Toronto Western Hospital Spinal Program - Fellowship and Research Funding Agreement. Fehlings MG: Synthes Spine Company, LP. ($640,000 2006 - 2009)


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)


University of Toronto Spine Collaborative (UT-SpineLINK). Fehlings MG: Ministry of Health and Long-Term Care. ($98,010 2009 - 2011)

**HONOURS RECEIVED**

Fehlings MG: First Place, American Association of Neurological Surgeons - 2010 Annual Meeting, for Poster Presentation in the category of Spine/Peripheral Nerve: 'An International Perspective on the Surgical Management of Cervical Spondylotic Myelopathy: Initial Outcomes of the AOspine CSM-I Multi-Center Prospective Study.' May 2010.


Lozano AM: Donald Calne International Award for Parkinson’s Disease Research and the 7th Annual Donald Calne Lectureship. May 2010.


**DIVISION OF ORTHOPAEDIC SURGERY**

Dr. J.R. Davey  Associate Professor  
Dr. W.M. Erwin  Assistant Professor  
Dr. R. Gandhi  Assistant Professor  
Dr. B.A. Graham  Assistant Professor  
Dr. J. Lau  Assistant Professor  
Dr. S.J. Lewis  Assistant Professor  
Dr. N.N. Mahomed  Associate Professor  [Division Head]  
Dr. K.W. Marshall  Assistant Professor  
Dr. D.J. Ogilvie-Harris  Associate Professor  
Dr. Y.R. Rampersaud  Associate Professor  
Dr. K.A. Syed  Lecturer  
Dr. C.J.H. Veillette  Assistant Professor  
Dr. H.P. von Schroeder  Associate Professor  

**PUBLICATIONS**


Dickie CI, Parent AL, Chung PW, Catton CN, Craig T, Griffin AM, Panzarella T, Ferguson PC, Wunder JS, Bell RS, Sharpe MB, O’Sullivan B: Measuring interfractural and intrafractural motion with cone beam computed tomography (CBCT) and an optical localization system (OLS) for lower extremity soft tissue sarcoma patients treated with preoperative intensity-modulated radiation therapy (IMRT). International Journal of Radiation Oncology, Biology, Physics: E-published ahead of print March 27, 2010.


INVITED VISITS


Davey JR: Stryker Orthopaedics/University of Calgary, Surgical Skills Lab, Triathlon Family Cadaveric Training, Calgary, Alberta, Canada, May 2010. Triathlon trial cutting guides (TCG)/ Triathlon TS cadaver demo.


Lewis SJ: Medtronic, St. Louis, Missouri, USA, December 2009. The use of the CD horizon solera spinal instrumentation system.


Rampersaud YR: Motion Sparing Technologies, Focus Group Meeting, Kelowna, British Columbia, Canada, April 2010. (1) Moderator of Lumbar Degenerative Spondylolisthesis, (2) Adjacent segment degeneration - complication of lumbar spine fusion, (3) Decompression and fusion, (4) Indications for lumbar ADR in Canada [best case scenario], (4) Summary of study protocol DIAM versus fusion for degenerative spondylolisthesis.

Rampersaud YR: Medtronic, Memphis, Tennessee, USA, February 2010. (1) Course Chairman: Advances in Spine Surgery-Current Techniques in Minimal Access, (2) Clinical results of minimal access surgery versus open surgery techniques, (3) Direct lateral, (4) Historical evolution of minimal access technologies, (5) Minimal access TLIF with percutaneous pedical screw fixation, (6) NEJM vertebralplasty RCTs.

Rampersaud YR: Medtronic, Advances in Spine: Trauma and Tumor, Memphis, Tennessee, USA, January 2010. (1) Acute compression fracture, (2) Flexion distraction injuries, (3) Hangman’s fracture, (4) Unstable upper thoracic met with myelopathy, (5) Work up and staging the spinal lesion: Avoiding the pitfalls.


Veillette CJH: Canadian Orthopaedic Association, Basic Science Course, Winnipeg, Manitoba, Canada, October 2009. Web 2.0 and the orthopaedic surgeon.


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


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 Grant. ($400,000 2008 - 2010)


Assessment of informatics competency and information management strategies in surgical trainees. Veillette CJH, Kanampuza J: University of Toronto. ($10,000 2009)

Biological effects of DRS upon intervertebral disc nucleus pulposus cells. Erwin WM: Skoll Foundation. ($120,000 2009 - 2010)


Harnessing collective intelligence for the management of subcapital hip fractures. Veillette C, Syed K: Orthopedic Trauma Society. ($10,000 2009 - 2010)


Regenerative medicine applications to the IVD. Erwin WM, Fehlings MG, Inman R: 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

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. D.J. Anastakis  Associate Professor
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. H.P. von Schroeder  Associate Professor
Dr. T. Zhong  Lecturer

PUBLICATIONS


INVITED VISITS

Anastakis DJ: Association for Surgical Education, 2010 Surgical Education Week, San Antonio, Texas, USA, April 2010. Facilitator of Strategic Planning Session


Hofer SOP: American Society of Plastic Surgeons, Aesthetic Facial Reconstruction in Adults and Children Symposium, Tucson, Arizona, USA, February 2010. (1) Aesthetic and oncologic outcome after microsurgical reconstruction of complex scalp and forehead defects, (2) Columellar reconstruction, (3) How to be successful with microvascular reconstruction in the head and neck, (4) Nasal reconstruction: An algorithm based on 800 cases over 7 years.


Hofer SOP: Erasmus University Medical Center, Department of Plastic, Reconstructive and Hand Surgery, 2009 Esser Course: Aesthetic and Functional Reconstruction of the Nose, Rotterdam, The Netherlands, November 2009. The evolution and current practice of inner-lining for nasal reconstruction.


Hofer SOP: International Confederation for Plastic, Reconstructive and Aesthetic Surgery, 15th World Congress, New Delhi, India, November 2009. (1) Head and Neck Chairperson, (2) Guest Lecturer: (a) Functional and aesthetic outcome enhancement of head and neck reconstruction through secondary procedures, (b) Reconstruction of the mandible with osteoradionecrosis, (3) Master Class: Nose reconstruction.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


Development of an injury severity score for hand trauma. Dvali LT, Graham B: The Physicians’ Services Incorporated. ($33,000 2007 - 2009)


Post mastectomy breast reconstruction; a comparative analysis of the psychological implications of DIEP flap and implant procedures. Hofer SOP, Tibben A: Dutch Cancer Foundation. ($600,000 2007 - 2011)

The role of somatosensory activity on cortical plasticity and functional motor outcomes following upper extremity peripheral nerve lesions. Anastakis DJ, Davis KD: The Physician’s Services Incorporated Foundation. ($142,500 2007 - 2009)

**DIVISION OF THORACIC SURGERY**

Dr. G.E. Darling  
Professor

Dr. M. de Perrot  
Associate Professor

Dr. S. Keshavjee  
Professor  [Division Head]

Dr. M.Y. Liu  
Professor

Dr. M.F. McKneally  
Professor

Dr. A.F. Pierre  
Assistant Professor

Dr. T.K. Waddell  
Associate Professor

Dr. K. Yasufuku  
Associate Professor

**PUBLICATIONS**


INVITED VISITS

de Perrot: Canadian Pulmonary Hypertension Forum, Montreal, Quebec, Canada, September 2009. Improving access to lung transplantation.


Keshavjee S: Queen’s University/McMaster University Health Sciences, 5th Annual Ontario Thoracic Cancer Conference, Niagara-on-the Lake, Ontario, Canada, April 2010. Local treatment of thymoma: Surgery for all?


Keshavjee S: University of Manitoba Health Sciences Centre, Winnipeg, Manitoba, Canada, September 2009. 1) Incorporation of HLA testing into decision making in lung transplantation, 2) Ex vivo repair of organs for transplantation.


Liu MY: Second Military Medical University, Department of Pathophysiology, Shanghai, China, December 2009. XB130 in cell signaling and tumorigenesis.

Liu MY: Shandong University, Faculty of Medicine, Jianan, Shandong, China, December 2009. Graduate education and management in University of Toronto, PTX3 and acute lung injury.

Liu MY: Soochow University, Medical College, Suzhou, Jiangsu, China, December 2009. Graduate education and management in University of Toronto.


Waddell TK: Massachusetts General Hospital, Thoracic Surgery Postgraduate Course, Boston, Massachusetts, USA, May 2010. (1) Lung stem cells and cystic fibrosis, (2) Mediastinoscopy or EBUS for mediastinal staging, (3) Primary chest wall tumours, (4) Pulmonary metastectomy, (5) T4 NSCLC invading the spine, (6) Update on lung transplantation.

Yasufuku K: Centre Hospitalier Del Universite de Montreal, Montreal, Quebec, Canada, June 2010. Visiting Professor - Diagnostic and Therapeutic Thoracic Endoscopy: (1) Endobronchial ultrasound anatomy, equipment and technique, (2) Radial EBUS in evaluation of endobronchial pathology, (3) EBUS/EUS in lung cancer staging - live case.

Yasufuku K: 16th World Congress for Bronchology and 16th World Congress for Bronchoesophagology, Meet the Professor - EBUS 2010 International Symposium/EBUS-TBNA Publications, Budapest, Hungary, June 2010. (1) Session Chair, (2) Guest Speaker: Endosonography: Mediastinal anatomy and diagnostic capabilities regarding tumor genetics.


Yasufuku K: Lahey Clinic, Interventional Pulmonology, The 27th Year, Burlington, Massachusetts, USA, March 2010. (1) EBUS case studies, (2) Hands-on workshop [EBUS-TBNA].


Yasufuku K: Hôpital Sainte Marguerite – Thoracic Endoscopy Unit, Interventional Bronchoscopy Course 2009, Marseilles, France, November 2009. (1) Visiting Faculty, (2) Gave a few talks, (3) Hands-on training.


Yasufuku K: Harvard University Medical School, Boston, Massachusetts, USA, October 2009. Endobronchial ultrasound: Seventh annual interdisciplinary training course.

Yasufuku K: Canadian Association of Thoracic Surgeons, 12th Annual Meeting, Victoria, British Columbia, Canada, September 2009. Controversies in thoracic surgery - EBUS is the gold standard to assess the mediastinum in NSCLC [Pro].


Zeldin R: Royal Victoria Hospital, Regional Cancer Program LHIN 12, Updates in Oncology 2010, Barrie, Ontario, Canada, May 2010. Timely diagnosis of lung cancer: Time to treat.

Cell replacement therapy for cystic fibrosis. Waddell T: Canadian Cystic Fibrosis Foundation. ($245,000 2010 - 2012)

Cell replacement therapy for cystic fibrosis. Waddell TK: Canadian Cystic Fibrosis Foundation. ($189,716 2007 - 2010)


Ex-vivo perfusion for lung transplantation. Keshavjee S: McEwen Centre Commercialization Award. ($125,000 2009 - 2010)

GABAergic regulations of airway epithelium in asthma. Lu WY, Inman M, Liu M: Canadian Institutes of Health Research. ($675,414 2007 - 2012)


Molecular and genomic diagnostic to improve outcomes in lung transplantation (GL2-01-019) Keshavjee S: Ministry of Health. ($1,750,000 2010 - 2015)

Molecular diagnostic strategies for the selection of donor lungs for transplantation. Keshavjee S: Roche Organ Transplantation Research Foundation [ROTRF]. ($300,000 2009 - 2012)


Nano-technology based delivery of Src PTK inhibitor to prevent ischemia reperfusion injury during lung transplantation. Liu M: Multi-Organ Transplant Academic Enrichment Fund. ($100,000 2008 - 2010)


The role of bone marrow progenitors in lung regeneration. Waddell TK: Canadian Institutes of Health Research. ($685,000 2007 - 2012)

The role of galectin-3 in xenograft rejection. Waddell TK: Heart and Stroke Foundation of Ontario. ($275,934 2007 - 2010)

Tissue remodelling and the immune response in obliterative bronchiolitis after lung transplantation. Keshavjee S: Canadian Cystic Fibrosis Foundation. ($270,000 2009 - 2012)

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  Professor
Dr. M. Robinette  Associate Professor
Dr. J. Trachtenberg  Professor

PUBLICATIONS


INVITED VISITS


Finelli A: Canadian Urology Research Consortium and Canadian Urologic Oncology Group, Quality Issues in Urologic Oncology, Montreal, Quebec, Canada, September 2009. (1) Quality indicators for kidney cancer, (2) Robotic technology.


Fleshner NE: Society of Urologic Oncology, Bethesda, Maryland, USA, December 2009. (1) Can future risk of prostate cancer be predicted?, (2) Who is a candidate for chemoprevention of prostate cancer?


Hassouna MM: Pan Arab Continence Society, in collaboration with the International Continence Society, 6th Annual Meeting, Sharm El Sheik, Egypt, February 2010. (1) 25 years experience in sacral neuromodulation, (2) Presided a session.


Jewett MAS: World Congress in Endourology, Munich, Germany, October 2009. (1) Plenary Debate: The role of laparoscopic RPLND in NSGCT contra, (2) Invited Faculty: Small renal mass.


Trachtenberg J: Toronto Man-to-Man and Side-by-Side Prostate Cancer Support Groups, Toronto, Ontario, Canada, November 2009. Treatments of the future....where we are headed.


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


Genomic characterization of clinically distinct pathways of prostate carcinogenesis. van der Kwast T, Trachtenberg J: Prostate Cancer Research Foundation of Canada. ($650,000 2008 - 2010)


A randomized, double-blind, parallel group active-controlled, multicentre long-term phase III study to assess the safety and efficacy of the beta-3 agonist YM178 [50 mg qd and 100 mg qd] after treatment in subjects with symptoms of overactive bladder. Radomski SB: Astellas Canada. ($112,000 2008 - 2009)

Adjusting treatment to meet patient preferences: A molecular and psychosocial approach. Squire J, Ritvo P, Sherar M, Bristow R, Trachtenberg J: Princess Margaret Hospital Foundation. ($1,000,000 2000 - 2010)

Application of selective nerve stimulation (SNS) signal in a spinalized rodent overactive bladder (OAB) model to understand the mechanism of sacral neuromodulation. Hassouna M: Ethicon, Johnson and Johnson. ($75,000 2008 - 2009)


Canadian BRCA1/2 Prostate Cancer Network. Bristow R, Trachtenberg J, Sridhar S, Narod S: Prostate Cancer Canada. ($20,000 2009 - 2010)


Development of a prostate cancer prevention clinic. Trachtenberg J, Ritvo P, Paterson A, Squire J, Yue C, Matthew AG: The Princess Margaret Hospital Foundation. ($1,000,000 2000 - 2010.)

DNA repair inhibition in prostate cancer cells as a means of individualizing cancer therapy. Bristow R, Trachtenberg J, Matthew AG: The Princess Margaret Hospital Foundation. ($1,000,000 2000 – 2010)

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: University of Toronto, Faculty of Medicine, Continuing Education and Professional Development. ($5,000 2008 - 2009)


In bore robotic-assisted image-guided focal ablation of prostate cancer. Trachtenberg J, Haider M, Goldenberg A, Kucharczyk W: The Princess Margaret Hospital Foundation, Barry Rose Foundation. ($1,000,000 2008 - 2010)


Krescent postdoctoral fellowship. Jewett MAS, Kurban G: Kidney Foundation of Canada. ($155,000 2009 - 2012)

Krescent postdoctoral fellowship. Jewett MAS, Gallie BL: Kidney Foundation of Canada. ($165,000 2009 - 2012)


Novel radiofrequency ablation technology for treatment of solid tumours. Sherar M, Jewett M, McCann C: Ontario Institute for Cancer Research-IPDC Award. ($300,000 2009 - 2011)


Prostate cancer prevention clinic. Trachtenberg J, Matthew AG, Horsburgh S: The Princess Margaret Hospital Foundation. ($1,000,000 2005 - 2011)


Reduction in progression among men on watchful waiting using dutasteride. Fleshner N [investigator initiated], REDEEM Study Group: Glaxo Smith Kline. ($8,000,000 2006 - 2011)


Stromal factors promoting prostate cancer progression. Sweet J, Fleshner N, Weingarden N, Done S, Hersey K: Prostate Cancer Canada. ($60,000 2009 - 2010)

The development of a prostate cancer prevention clinic (Phase II). Trachtenberg J, Horsburgh S, Matthew A, Ritvo P, Squire J: The Princess Margaret Hospital Foundation. ($1,000,000 2005 - 2011)

The prevalence and correlates of cancer-related fatigue in colorectal, breast and prostate cancer survivors. Jones J, Fleshner N: Canadian Institutes of Health Research. ($100,000 2010 - 2011)

The SELECT Trial. Trachtenberg J, Jewett M, Tshilias J: National Cancer Institute (USA), SouthWest Oncology Group (SWOG). ($250,000 2000 - 2009)

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. G. Roche-Nagle  Assistant Professor
Dr. B.B. Rubin  Professor (Division Head)
Dr. L.W.H. Tse  Assistant Professor
Dr. D.L. Wooster  Professor

PUBLICATIONS


INVITED VISITS

Johnston KW: University of Buffalo, Department of Surgery Faculty Development Retreat, Buffalo, New York, USA, March 2010. 1 Academic advantages of joining a society, 2 How to write a paper.


Johnston KW: Saudi Society for Vascular Surgery/King Saud University, College of Medicine, Riyadh, Saudi Arabia, January 2010. 1 Diabetic vascular disease, 2 Why has EVAR replaced open AAA repair?


Lindsay TF: The College of Family Physicians of Canada; Alberta College of Family Physicians / Section of Teachers / Section of Researches, combined Annual Scientific Assembly/Annual Workshops, Family Medicine Forum 2009, Calgary, Alberta, Canada, October 2009. Changes in abdominal aortic aneurysm care and prognosis.

Lindsay TF: Canadian Society for Vascular Surgery, Annual Meeting, Ottawa, Ontario, Canada, September 2009. AAA screening in Canada. Where are we?


RESEARCH AND INVESTIGATIONS
Investigators’ Names Appear in Italics


Complement mediated organ injury following ruptured abdominal aortic aneurysm: Human and animal investigations leading to pilot intervention studies. Lindsay TF: The Physicians’ Services Incorporated. ($84,000 2009 - 2010)


Role of Group V and Group X secretory phospholipases A2 in myocardial infarction. Rubin BB: Canadian Institutes of Health Research. ($269,349 2009 - 2012)


HONOURS RECEIVED


Tse LWH: Best Poster Award for ‘Engineering in a Clinical Setting,’ during Scientific Day 2010, Institute of Biomaterials and Biomedical Engineering, University of Toronto. May 2010.

Wooster DL: Gore Research Award and the Vascular Surgery Sigvaris President’s Award, from the Canadian Society for Vascular Surgery. September 2009.
Surgical programs with a focus in Ambulatory Care continue to be a dominant theme in the evolving structure of Women’s College Hospital as this institution continues to progress as an academic Ambulatory Surgical Centre that is fully integrated with the hospital’s primary ambulatory strategic plan and current services. Women’s College Hospital is a designated facility for ambulatory surgery in the Toronto Central LHIN. Women’s College is developing 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 cancers common in women including Breast Cancer/Breast Reconstruction and Thyroid Cancer as well as developing a focus in orthopaedic sports medicine and building surgical strength in Urology, Orthopedics, Plastic Surgery and General Surgery.

NEW STAFF:

Dr. Lucas Murnaghan, an Orthopedic surgeon, came on staff in August of 2009 with a focus in Orthopaedic Sports Medicine, specifically in treating young athletes. Dr. Murnaghan will spend half of his time at The Hospital for Sick Children and half 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. John Semple was awarded the Chair in Surgical Breast Cancer Research by the Canadian Breast Cancer Foundation, Ontario Region. The Chair is not only the first surgical research Chair awarded by the Canadian Breast Cancer Society but also the first endowed Chair based in the Department of Surgery at Women’s College Hospital. Overall, for a new Department of Surgery (4 years old) of which the majority of members still qualify as new recruits, we have had an excellent output in academic activity: grant capture (13), manuscripts published (17) and invited lectures (26). Other activity highlights include Dr. Mitchell Brown and Dr. Brett Beber hosting the 10th Annual Toronto Breast Symposium on April 8, 2010 at the Sutton Place Hotel and welcoming visiting professors: Dr. William P. Adams Jr. of Dallas, Texas; Dr. Bradley Bengtson of Grand Rapids, Michigan and Dr. Elizabeth Hall-Findlay of Banff, Alberta. Women’s College Hospital continues to host international candidates under the new Allergan Breast Reconstruction clinical fellowship.

In the summer of 2010, the construction of the new WCH will start (see photo.) Phase I, which will house 8 operating rooms and clinical space, will be completed in 2013; and Phase II, which will house education, research and administrative offices, will be completed by 2015. This new space will accommodate the core surgical activities and programs of the Department of Ambulatory Surgery. The WCH Department of Surgery looks forward to further exciting developments in recruitment and development in ambulatory surgical programs, and will continue to work towards innovative and quality initiatives.
DIVISION OF GENERAL SURGERY

Dr. T. Cil  Assistant Professor
Dr. G.Y. Hiraki  Assistant Professor
Dr. L. Lickley  Professor

PUBLICATIONS


DIVISION OF ORTHOPAEDIC SURGERY

Dr. L. Murnaghan  Assistant Professor
Dr. J. Theodoropoulos  Lecturer

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Investigators’ Names Appear in Italics


Creating a coordinated and integrated approach to thyroid cancer assessment. Semple JL, Kelly C, Stuart-McEwan T: Women’s College Hospital, Alternate Funding Plan, Innovation Funding Competition. ($30,000 2009 - 2010)


HONOURS RECEIVED

Semple JL: 25 Year Service Award, from The University of Toronto, Division of Plastic Surgery. April 2010.


DIVISION OF UROLOGY

Dr. E.D. Grober Assistant Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS
Investigators' Names Appear in Italics


Validation of real-time, intra-operative, surgical competence (RISC) assessments linked to patient outcomes. Grober ED, Jewett MAS, Lorenzo A: Medical Council of Canada. ($37,500 2009 - 2010)

Validation of a real-time, intra-operative, surgical competence (RISC) assessments. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. ($40,000 2009 - 2010)


Validation of real-time, intra-operative, surgical competence (RISC) assessments linked to patient outcomes. Grober ED, Jewett MAS, Lorenzo A: Association for Surgical Education - CESERT. ($25,000 2009 - 2011.)

HONOURS RECEIVED

DIVISION OF ANATOMY

Michael J. Wiley
Chair

Dr. A. Agur  Professor
Dr. B. Ballyk  Senior Lecturer
Dr. S. Karimi-Abdolrezaee  Assistant Professor
Dr. P. Koeberle  Assistant Professor
Dr. J. Laprade  Lecturer
Dr. C.M. Morshead  Associate Professor
Dr. I.M. Taylor  Professor
Dr. M.J. Wiley  Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Morshead C: NeuroDevNet Meeting, Montreal, Quebec, Canada, June 2010. Approaches for enhancing endogenous repair mechanisms.


Morshead C: Memorial University, St. John's Newfoundland, Canada, November 2009. Guest Speaker: Activating neural self-repair mechanisms following injury.


RESEARCH AND INVESTIGATIONS

Investigators' Names Appear in Italics

Anatomy glove and video. McKee P, Agur A: Education Development Fund, Faculty of Medicine, University of Toronto. ($10,000 2008 - 2009)


Approaches to self-repair: Characterizing the endogenous responses of neural stem cells following brain injury. Morshead C: Premier's Research Excellence Award (PREA). ($100,000 2004 - 2009)

Biomechanical and cellular changes within the rat gastrocnemius muscle and calcaneal tendon post tenotomy: Do traumeel injections make a difference? Sauks K, Agur A: Canadian CAM Research Fund (Holistic Health Research Foundation of Canada). ($4,858 2010 - 2011)


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)


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)


The development of drug and cell delivery systems for use in stem cell based therapies to treat stroke. Morshead C, Shoichet M, Corbett D: Heart and Stroke Foundation. ($485,000 2008 - 2011)


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 matrix metalloproteinases in adult CNS neuroprotection. Koeberle P, Fehlings M: Canadian Institutes of Health Research. ($257,217  2008 - 2011)


HONOURS RECEIVED

Taylor I:  Dr. E. Mary Hollington Award, Faculty of Medicine.  May 2010.

Wiley M:  Harry Whittaker Memorial Award, Faculty of Medicine.  May 2010.

Wiley M:  Aikins Award for Large Group Teaching, Faculty of Medicine.  May 2010.

Wiley M:  President’s Teaching Award, University of Toronto.  April 2010.
**RESEARCH IN EDUCATION**

Dr. R. Sonnadara  
Assistant Professor

Dr. N. Woods  
Assistant Professor

**PUBLICATIONS**


**RESEARCH AND INVESTIGATIONS**  
*Investigators’ Names Appear in Italics*

Auditory interaction and communication in complex environments: Neural, developmental and applied aspects.  

*Lindsay T, Molloy K, Reznick R, Gaines P, Sonnadara RR, Beard J: John L. Provan Educational Award. (5,000  2009 - 2010)*

Measures of diagnostic pattern recognition: Relation to individual differences and expertise.  

The effectiveness of structured video-feedback to improve laparoscopic technical skills acquisition.  
### CROSS APPOINTMENTS

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Dr. A.J. Baker</td>
<td>Anaesthesia</td>
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<td>Dr. B. Bapat</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. P. Birek</td>
<td>Dentistry</td>
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<td>Dr. A. Campbell</td>
<td>Medicine</td>
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<td>Dr. J. Carson</td>
<td>Family and Community Medicine</td>
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<td>Dr. W.A. Cassar-Demajo</td>
<td>Anaesthesia</td>
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<td>Dr. A. Daar</td>
<td>Public Health Sciences</td>
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<td>Dr. A. Damyanovich</td>
<td>Medical Imaging</td>
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<td>Dr. J.E. Davies</td>
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<td>Dr. A.D. DePetrillo</td>
<td>Obstetric and Gynaecology</td>
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<td>Dr. E. Diamandis</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. R. Eby</td>
<td>Medicine</td>
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<td>Dr. V.L. Fornasier</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. A. Fox</td>
<td>Medical Imaging</td>
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<td>Dr. J. Freeman</td>
<td>Otolaryngology</td>
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<td>Dr. R. Gilbert</td>
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<td>Dr. M. Greenberg</td>
<td>Pediatrics</td>
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<td>Dr. P.J. Gullane</td>
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<td>Dr. B. Harvey</td>
<td>Public Health Sciences</td>
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<td>Dr. B. Hinz</td>
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<td>Dr. J. Irish</td>
<td>Otolaryngology</td>
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<td>Dr. J. Irvine</td>
<td>Psychiatry</td>
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<td>Dr. G. Jackowski</td>
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<td>Dr. M.G. Johnston</td>
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<td>Dr. W. Kucharczyk</td>
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<td>Dr. G.A. Levy</td>
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<td>Dr. C. Lumsden</td>
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<td>Dr. A. Macdonald</td>
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<td>Dr. J. McGlade</td>
<td>Medical Biophysics</td>
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<td>Dr. D.A.G. Mickle</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. M. Milner</td>
<td>Rehabilitation Science</td>
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<td>Dr. M. Ojha</td>
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<td>Dr. K.P.H. Pritzker</td>
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<td>Dr. P. Ritvo</td>
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<td>Dr. A. Romaschin</td>
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<td>Dr. J. Rutka</td>
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<td>Dr. A. Sahgal</td>
<td>Radiation Oncology</td>
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<td>Dr. G. Sandor</td>
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<td>Dr. A. Slutsky</td>
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<td>Dr. D. Stewart</td>
<td>Psychiatry</td>
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<td>Dr. K.G. terBrugge</td>
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<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. Q. Wan</td>
<td>Physiology</td>
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<td>Dr. I. Weller</td>
<td>Public Health Sciences</td>
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<td>Dr. L. White</td>
<td>Medical Imaging</td>
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<td>Dr. R. Willinsky</td>
<td>Medical Imaging</td>
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<td>Dr. L. Wilson-Pauwels</td>
<td>Biomedical Communications</td>
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<td>Dr. I. Witterick</td>
<td>Otolaryngology</td>
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