Department of Surgery

Annual Report

JULY 1, 2012 – JUNE 30, 2013

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Dr. J.T. Rutka

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Dr. N. Fleshner Martin Barkin Chair in Urological Research
Dr. T. Lindsay Vascular Surgery
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39th Gallie Day May 10, 2013

Gallie-Bateman and McMurrich Research Presentations

Cindi Morshead: Session Chair

Stephen Mack: Effective epigenetic therapy for CIMP+ve Posterior Fossa Ependymomas

Marvin Hsiao: The numbers, rates, mechanisms and potential access to trauma care for road traffic injury deaths in India - A nationally representative mortality survey of 1.1 million homes

Gurpreet Baht: Rejuvenating bone through modulation of β-catenin

Siba Haykal: Advances in tracheal tissue-engineering: Evaluation of the structural integrity, immunogenicity and recellularization of long-segment circumferential decellularized tracheal allografts for airway transplantation

Mehroz Ehsan: Adiponectin limits microparticle-induced endothelial dysfunction: A novel vasculoprotective mechanism

Symposium: “Making It Personal: Individualized Care in Surgery”

Benjamin A. Alman: Session Chair

Donald Redelmeier: Personalized Decision Making

Michael Szego: Ethical Issues Associated with Whole Genome Sequencing in the Paediatric Context

Steven Gallinger: A Personalized Dent in the Armor of Pancreatic Cancer

Philippe Bedard: Molecular Profiling of Advanced Solid Tumours
Hedgehog regulation is required for interzone cell differentiation and β-catenin-mediated synovial joint morphogenesis.

Rapamycin treatment attenuates bladder hypertrophy during long-term outlet obstruction in vivo: Tissue, matrix, and mechanistic insights.

Total joint arthroplasty appears cardioprotective in patients with moderate-severe osteoarthritis: A propensity-score matched landmark analysis.

Hedgehog regulation is required for interzone cell differentiation and β-catenin-mediated synovial joint morphogenesis.

Geographic variation in rates of immediate and delayed breast reconstruction in Ontario and the influence of plastic surgery.

The Importance of the Tumor Microenvironment in Cancer Progression.

Magnetic resonance guided focused ultrasound (MRGFUS) for thalamotomy in treatment-refractory essential tremor.

Closing remarks.
Dinner & Awards Ceremony

Darrell Ogilvie Harris: “Howling Wolves” Bronze sculpture

Mari and Jim Rutka: Ukrainian Pysanka

Loise Tremblay: “The Gardian” Bronze sculpture
Gallie Day Dinner & Awards
As a matter of timing, we have been quite engaged in the accreditation of learners and programs in our environment. Of course, last year, we were focused on the undergraduate medical education and the accreditation of the medical school; this year, it was the postgraduate programs. All of our programs that were reviewed passed accreditation, and these included surgical foundations, general surgery, neurosurgery, paediatric general surgery, plastic and reconstructive surgery, urology, cardiac surgery, and surgical oncology. Interestingly, colorectal surgery and thoracic surgery were not reviewed as they were part of a pilot program of the Royal College in which on-site visits would not be required of all programs. Orthopaedics had recently undergone a review for its competency based curriculum program, and vascular surgery had recently transitioned to a 6 year program hence they were not reviewed.

I wish to thank sincerely Drs. Ron Levine and David Latter Director of PGME and Vice Chair of Education for their tremendous efforts in achieving our fully accredited status. In addition, all Program Directors deserve mention and credit here – Andrew Pierre, Thoracic Surgery; Ted Gerstle, Paediatric General Surgery; Peter Ferguson, Orthopaedics; Mitch Brown, Plastic and Reconstructive Surgery; Helen McCrae, Colorectal Surgery; Gideon Cohen, Cardiac Surgery; George Oreopoulos, Vascular Surgery; Abhaya Kulkarni, Neurosurgery; Frances Wright, Surgical Oncology, Najma Ahmed, General Surgery; Rob Stewart, Urology.

While we received full accreditation for all programs, and while there were numerous strengths as to be expected from the Department of Surgery at the University of Toronto in the eyes of the reviewers. There were some weaknesses that require our attention. In particular, we will need to work towards ensuring our residents have continued opportune educational experiences and not excessive service demands. A variety of initiatives are being put into place to safeguard against this. We will work towards minimizing the number of pages that are received by residents in a given time period. And, we will place various physician extenders into the different institutions to assist with service demands.

On a related topic, I should like to congratulate Najma Ahmed and her working group task force on a procedural discipline’s task force on reviewing the literature, and providing recommendations to the resident duty hours final document that was released by the Royal College (fatigue, risk and excellence) towards a Canadian consensus on resident duty hours. The most important determination from this task force is that procedural disciplines differ in their requirements for training, and the one-size does not fit all mandate is required.

This past year, we had numerous new expenses in the Department of Surgery, and these related to support of the critical care medicine program, the faculty wellness centre, Department of Surgery prep camp, surgeon-scientist training program, and our moving expenses. We will have to pay some attention to these new expenses in our budget for this year. Thankfully, we have had a very healthy carry forward over the years, and we hope that this will sustain us as we move forward into the future.

We have decided to harmonize the departmental salaries based on role. Consistent support will be provided to surgeon-scientists, surgeon investigators, and surgeon teachers. In addition, we have provided stipends to all of our scientists in the Department of Surgery.

I was delighted to appoint Shaf Keshavjee to the position of Vice Chair of Innovation. Chris Compeau became Surgeon-in-Chief at St. Joseph’s Hospital, and Carmen Simone Surgeon-in-Chief at Toronto East General Hospital. I provide special thanks to Sid Radomski who served as special advisor to the Chair from 2007-2012, and to Bob Mustard who led the Surgical Foundations didactic course over the past 12 years. He will be replaced by Dr. Maurice Blitz. Joanna Giddens was appointed as our Strategic Plan and Implementation Co-ordinator.

John Theodoropoulos, Thomas Willett, Abdollah Behzadi and Rajiv Singhal were promoted to the level of Assistant Professor; Allen Otkraine, Kazuhiro Yasufuku, Greg Borschel, Alice Wei, Clement Hamani to Associate Professor; and Stefan Hofer, Marc Jeschke, Cindi Marshead, Robert Nam, and Michael Taylor were appointed to the level of Full Professor; and Stefan Hofer, Marc Jeschke, Cindi Marshead, Robert Nam, and Michael Taylor were appointed to the level of Full Professor in the Department of Surgery. Successful Continuing Appointment Reviews were achieved by Greg Borschel, Tulin Cil, Anna Gagliardi, Jeremy Hall, Timothy Jackson, Simon Kitto, Todd Mainprize, Lucas Murnaghan, Dianne Nam, Graham Roche-Nagle, Marcus Selzner, and Tom Willetts. Special thanks to Ori Rotstein for leading the continuing appointment review process in the Department of Surgery.

We welcome Shady Ashamalla, Sandra deMontbrun, Jasinski Chahal, Karen Devon, Robert Hamilton, Edward Hickey, Paul Kongkham, Steve McCabe, Bartolomeu Nascimento, Anne O’Neill, Agostino Piero, Ivan Radovanovic, Mohammed Shami, Andrea Veljkovic, and Victor Yang as new faculty.
Our grant awards, honours, and research publications are too numerous to name here. Suffice it to say that we had a banner year for these achievements by our faculty.

John Hagen received the Tovee Post-graduate Prize, R.D. Cusimano the Tovee Undergraduate Prize, Marc Jeschke received the George Armstrong Peters Prize, and Avery Nathens the Lister Prize. John Niederhuber was our Gordon Murray Lecturer for Gallie Day which took place on May 10th, 2013. It was with great sadness that we bid farewell to Dr. Ben Alman for his departure. He is becoming the Chair of Orthopaedic surgery at Duke University in North Carolina, and we thanked Ben at Gallie Day for all of his numerous accomplishments to the Division of Orthopaedics, and most recently the Department of Surgery in his role as Vice-Chair of Research.

On October 26th, 2012, the Bernard Langer HPB Transplant Fellow reunion was held and organized by Paul Grieg. This was a tremendous opportunity for more than 50 fellows to return to celebrate in the life long courier and accomplishments of Dr. Bernard Langer.

On March 21st, 2013, we moved to the offices of the Department of Surgery from the Banting Institute to the Stewart Building. The new office space is perfectly suited to our needs to move our goals and objectives forward given the communal relation of the offices and staff.

This past year, the Department of Surgery raised more than $4.7 million which was exceptional. This is the most ever on record. We were fortunate to receive a $2 million gift from Michael and Amira Dan for their support of the Brain Tumour Banking Initiative.

I do hope that you will enjoy reading the contents of this Annual Report. In my view, there is not an equivalent Department of Surgery across the continent that can compare to our accomplishments, our depth and breadth, and our achievements. Once again, I thank all of you for your tremendous support of the Department of Surgery and I look forward to working with you in upcoming years for the purposes of improving what already is an absolutely superb Department of Surgery.
Research Report
Ben Alman, Vice-Chair Research, A.J. Latner Professor and Chair in Orthopaedic Surgery

Research is one of the cornerstones of the department, and we continue to have a stellar research profile, in which we undertake high impact work that has a profound effect on surgical care. Each year the number of our journal publications continue to grow by leaps and bounds. Our faculty continues to be invited to give research presentations throughout the globe and participate in hundreds of national and international research meetings. The increased competitiveness of research funding from the Canadian Institutes of Health Research, CCSRI, and other funding agencies continues. Despite this, our department members continue to receive new grant at an increasingly phenomenal pace from these agencies. Benjamin Alman, Darius Bagli, Gregory Borschel, Mark Cattral, Marcelo Cypel, Karen Davis, James Drake, James Eubanks, Gregory Fairn, Geoffrey Fernie, Neil Fleshner, Anand Govindarajan, Boris Hinz, Mojgan Hodaie, Sevan Hopyan, Andras Kapus, Shaf Keshavjee, Ren-Ke Li, Mingyao Liu, Cindi Morshead, Diane Nam, Catherine O’Brien, Barry Rubin, Michael D. Taylor, Subodh Verma, Tom Waddell, Paul Wales, Cari Whyne, Thomas Willett, Albert Yee, Gelareh Zadeh, Liang Zhang, were among the great number of faculty who received new grants this year. Our total research funding continues to exceed that of even many of the Universities in Canada, this year was over $45,000,000.

The Surgeon Scientist Training Program remains as a very significant training program for residents at the graduate level in research. We have twenty-five residents participating this year. 96% of our Surgeon Scientist Training Program trainees were successful in receiving full or partial salary support from external granting agencies. Johnson & Johnson Medical Products funding support for the Surgeon Scientist Training Program provided funding to five trainees for 2012-2013, who were David Cadotte, Charles de Mestral, Karineh Kazazian, Timothy Leroux and Lakhbir Sandhu.

This year’s Gallie Day theme was “Making It Personal: Individualized Care in Surgery”. The concept of individualized care is growing in importance, as caregivers and researchers are starting to explore tailored therapies for individual patients. Knowledge of individual patient and disease biology can be used to predict severity and response to therapy. As surgeons, we are used to the concept of individualized care. Each time we operate, we make subtle, or not so subtle modifications to our approaches to take unique aspects of a patient into account. We also individualize decisions about surgical-vs- non-surgical approaches to treatment, and the type of surgery we select, based in part on the risks and benefits, and each patient’s values and individual attributes and circumstances. Individualized treatment can be thought of in several ways, and our symposium, in which several of the University faculty members participated, drew on these broad aspects of individualized surgery. Donald Redelmeier (Director, Evaluative Clinical Sciences, Sunnybrook Health Sciences Centre) provided a fascinating and thought provoking talk on how we make decisions in surgery. Michael Szego (Clinical Ethicist, Centre for Clinical Ethics, University of Toronto) spoke on the emerging ethical issues associated with whole genome sequencing, which are especially pertinent in the paediatric context. Steven Gallinger (Professor, Division of General Surgery, Department of Surgery, University of Toronto & TGH, University Health Network) spoke on a long term quest to identify why some patients are able to survive pancreatic cancer. Philippe Bedard (Assistant Professor, Department of Medicine, University of Toronto; Division of Medical Oncology and Hematology, Princess Margaret Cancer Centre – University Health Network) spoke on a large scale effort to use molecular profiling of tumours to develop targeted chemotheraphy. The group of speakers illustrated the high quality and broad range of ongoing academic work in Toronto related to Individualized surgery.

This year’s Gordon Murray Lecturer was John E. Niederhuber, MD (Executive Vice President, Inova Health System; CEO, Inova Translational Medicine Institute; CEO, Inova Comprehensive Cancer & Research Institute; Co-Director, Johns Hopkins Clinical Research Network, Baltimore, MD). Dr Niederhuber is a surgeon who served as the Director of the National Cancer Institute of the NIH from 2006-10, and was instrumental as one of the early pioneers formulating the Cancer Genome Atlas. His lecture was on the importance of the tumor microenvironment in cancer progression.
We had a record number of abstracts submitted by trainees working with our faculty. There were 10 platform presentations and 60 poster presentations. The Gallie Bateman Awards (for Surgeon Scientist Training 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 array of diverse topics and researchers highlighted the wide-ranging and high quality, research being conducted in our Department. The Gallie Bateman awards are given for work by a trainee in the Surgeon Scientist Training Program (SSTP). There was a tie for first place with Boris Zevin (Nicolas J. Dedy, Esther M. Bonrath, [supervisor: Teodor P. Grantcharov]), poster presentation entitled “Development and validation of a comprehensive simulation-enhanced training curriculum in bariatric surgery: A randomized controlled trial” and Siba Haykal (supervisors: Thomas K. Waddell, Stefan O. Hofer), oral presentation, entitled “Advances In tracheal tissue-engineering: Evaluation of the structural integrity, immunogenicity and recellularization of long-segment circumferential decellularized tracheal allografts for airway transplantation” receiving this award. Second place awards went to Marvin Hsiao (supervisors: Avery B. Nathens, Prabhat Jha) and Karineh Kazazian (Roland Xu, Francis Zih, Carla Rosario, [supervisor: Carol Swallow]). Third place awards went to Nir Lipsman (supervisor: Andres M. Lozano); Bheeshma Ravi (Ruth Croxford, Peter C. Austin, Lorraine Lipscombe, Arlene Bierman, Paula Harvey, [supervisor: Gillian Hawker]); and Jefferson R. Wilson (supervisor: Michael G. Fehlings).

The McMurrich Awards are presented for research by a trainee who is not in the Surgeon Scientist Training Program). The first place awards went to Stephen C. Mack, working under the supervision of Michael D. Taylor, and to Mushriq Al-Jaware, Shabana Amanda Ali, Gurpreet S. Baht, and Saber Ghadakzadeh working under the supervision of Benjamin Alman. The second place awards went to Heather Baltzer (supervisor: Paul Binhammer); Shahrazad Jalali, [supervisor: Gelareh Zadeh]; Chung Ho Leung (supervisors: Christopher Caldarone, Ori D. Rotstein);; Anton Mihic (supervisor: Ren-Ke Li); Kathryn Ottoline-Perry (supervisor: Andrea McCart); Jason S. Rockel (supervisors: Benjamin Alman and Gordon Keller); Linda Vi (supervisor: Benjamin Alman); and Bobby Yanagawa (supervisor Subodh Verma).

Faculty research awards went to Carol-anne Moulton (Bernard Langer Surgeon Scientist Award) awarded to an outstanding graduate of the Surgeon Scientist Training Program in the Department, who shows the greatest promise for a career in academic surgery; Marc Jeschke (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; Michael G. Fehlings (Charles Tator Surgeon Scientist Mentoring Award) recognizing individual supervising participants in the SSTP who emulate Professor Tator’s qualities, namely excellence in research, commitment to SSTP mentoring and dedication to promotion of Surgeon-Scientists; Avery Nathens (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.

The third Shafie Fazel Award was presented to Wael Hanna. Zane Cohen Clinical Fellowship was awarded to David Wasserstein. John Hagen received the Tove Postgraduate Prize, and Robert J. (RJ) Cusimano received the Tove Undergraduate Prize.

Val Cabral received the first STRAW award – representing the Vice Chairs of Research to date [Strasberg, Tator, OD Rotstein, Alman, Weisel] for her incredible dedication and hard work to organize the Surgeon Scientist Training Program, and the day’s organization of Gallie Day. She deserves special thanks for her co-ordination of all aspects of the Departmental research activities. I will be transition from U of T to Duke University, and was honored to have the January University Research Rounds renamed the “Ben Alman Research Rounds”.

Research plays an incredibly important role in our department and we have made astonishing accomplishments in the past year. There is no doubt in the upcoming years our research activities will continue to expand, with new avenues of investigation being developed, and improvements in our research infrastructure to increase the breadth and depth of our work, ultimately improving the outcome for our patients.
The Department of Surgery at the Postgraduate level is the largest in Canada with 269 residents and 247 clinical fellows. There have been many accomplishments and successes in the 2012-2013 academic year.

There are 11 surgical programs: 7 CaRMS entry and 4 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.

Our surgical positions for all of our CaRMS entry specialty programs are sought after by medical students from across Canada. This year all 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 IMG’s (International Medical Graduates) and visa trainees from around the world.

The first two years of training in surgery is known as Surgical Foundations. Besides attending specialty-specific academic endeavors, the Surgical Foundations residents attend the Surgical Foundations lectures to prepare them for the Surgical Foundations 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 Surgical Foundations Exam is a testament to all of Dr. Mustard’s hard work. Dr Mustard will soon be retiring from clinical practice, and a search for his replacement will be undertaken.

Another important part of the postgraduate curriculum in all specialties is the Surgical Skills Lab at the Mount Sinai Hospital. All PGY1 residents attend a 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. Lisa Satterthwaite is the Senior Manager of this unique skills lab and Dr. Oleg Safir is head of the Surgical Skills Lab and has brought many new improvements to the 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. This is run by Dr. John Bohnen and Dr. Ron Levine. 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. The Program Directors can monitor the operating experience of the learner at each hospital and can compare the experience from one hospital to another using the data from POWER case logging.

PGCoreEd is a series of interactive modules based on the CanMEDS Roles. Each module takes 4 to 5 hours to complete and there is an exam at the end of each module. The results of the exams are provided to the resident, Program Director and Director of Postgraduate Education. Successful completion of 8 modules is required for all residents finishing their PGY2 year.

The fellowship programs in the Department of Surgery are extremely important. Not only do the fellows learn important skills that they take back to their countries of origin, but they all bring their experiences from around the world to our residents and medical students. At the present time we have 247 fellows in the Department of Surgery. The fellowship committee under the leadership of Dr. David Latter has moved to formalize all the fellowships in the Department of Surgery with definitive goals and objectives and uniformity of salaries for each fellowship. 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 that family can get to know each other.

The running of the Department of Surgery with 269 residents, 247 fellows and 265 faculty members is a huge endeavor. This is masterfully done by Tess Weber and Robert Gardin.
The 2012-13 academic year has been a busy and productive period for Undergraduate Education. I am glad to report that we have, as a group, made significant progress in many areas of undergraduate teaching.

‘Crash Course in Surgery’ week: The week-long introductory series of teaching and skill sessions continue to evolve, providing clinical clerks with clinically-relevant, case-based, interactive sessions. Feedback indicates that this type of teaching is helping students to be better prepared when on their clinical service. Several of the crash course sessions have been video-recorded and uploaded to the portal for 24x7 student access.

Surgery clerkship portal: The Surgery Clerkship website (portal) has been comprehensively reorganized and revamped. Content for the crash course sessions have been updated and organized with relevant readings posted for students to review in preparation for each session. Several other learning resources, including videos and access to relevant library materials have been included. A mobile app has also been created to enable students to access relevant information “on-the-go.” I would like to make a note of the invaluable contributions of Marisa Louridas and Michael Zywiel, two of our Resident Leaders in Education who have spearheaded this and many other exciting projects.

Clinical sub-rotations: Starting last academic year, with the help and support of each hospital-based academy, we had instituted a formal, standardized communiqué that goes to each preceptor, just before a clinical clerk is to come to their service. The letter details the roles and responsibilities of the preceptor as well as providing relevant information, including a picture, of the clerk. In addition to this, we have now mandated that a clinical clerk, be observed by a surgeon, performing a focused history and physical of a patient. Every clerk is expected to furnish documentation that this has occurred. Preliminary reviews show that this is achieving very good results.

Resident Leaders of Undergraduate Education: Recognizing that surgical residents are among the most important components of effective teaching and the overall level of quality in undergraduate education, a group of committed and enthusiastic residents has been formed. This group, known as Resident Leaders in Education, already has several ongoing projects.

Mississauga Academy of Medicine (MAM): The past year saw several clinical clerks complete their rotations MAM. Student feedback has been extremely encouraging. I wish to thank Abdollah Behzadi and Christiane Wernick, along with all the teaching faculty and support staff for this exceptional show. 2013-14 will see MAM getting its full complement of clerks and I am confident that the team will continue to provide an optimum educational experience for clerks.

Objectives for 2013/14:

- To accurately collect and report all faculty undergraduate teaching activities and commitments. This will allow us to properly recognize and reward the outstanding achievements.
- To define and refine the role of the Divisional Directors of Undergraduate Education and the Surgical Leaders of Undergraduate Education (SLUE), so as to deliver a consistent and cohesive undergraduate education experience at all sites.
Continuing Professional Development
Terry Axelrod, Director and Chair

Overall CPD Goals
• Promote best practices in continuing education and professional development (including Faculty Development, CE Professional Development)
• Foster scholarship and research in continuing education
• Broaden the scope and inclusiveness of continuing education (including international, interprofessional)
• Work closely with CPD office at the University of Toronto to implement a new model of partnership, including funding and advertising of CE programmes

2012-13 Activities
• 24 CE events run through the CPD office, with 11 fully managed, the remainder with sponsorship for accreditation only
• 17 live meetings, 5 faculty development, 2 Web based
• Superb success with enrollment in the hundreds for several courses, such as the Update in General Surgery 2013 (435), Urology Update 2012 (222), etc.
• Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CPD jurisdiction

Objectives for 2013-14
• Encourage all Divisions to run or accredit courses through CPD office.
• Catalogue the National and International CE that is done outside of the CPD office
• To serve as the Test Department for the implementation of the proposed new model of partnership between the CPD Office and the University Departments
• Continue to encourage the development of more Web based programmes.
• Promote the value of CE to the Faculty of Medicine vis a vis promotion and advancement of faculty through partnership with the Vice Dean of Continuing Professional Development.

Life in Surgery Meeting – Panel members
The Surgical Alumni Association spent the past academic year laying the groundwork for at least one major surgical alumni event in 2014. Central to this planning process were three major activities:

**Updating The Surgical Alumni Database:**
We now have over 3,500 addressable alumni in our searchable, relational database. This will move to a new, more easily searchable database during 2014. To maintain a more accurate database we have started to standardize the definition of an alumnus/alumna, and to centralize the data that relates to all postgraduate trainees, fellows and visiting trainees. Finally, a program of formal recognition of graduation/training will solidify the inclusion of all who are eligible to be recognized as Alumni of the Department of Surgery at the University of Toronto.

**The Creation, Mailing And Analysis Of A Comprehensive Questionnaire To About 2,000 Alumni Including Current Faculty:**
Among the many observations, the most pertinent was a strongly declared interest in Continuing Medical Education. CME and the opportunity to associate and interact with peers were the two areas where we believe we have the opportunity to increase our engagement with Alumni.

**Expanding The Membership Of The Surgical Alumni Advisory Committee:**
A list of nominees has been submitted and we anticipate reconstituting an expanded and more representative advisory group by the beginning of the 2013/2014 academic year.
Office of International Surgery
Andrew Howard, Director

Overview
The Office of International Surgery (OIS) 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 OIS continues to provide free full text access to the University of Toronto Library to surgeons and surgical trainees in low income countries. Our librarians, Sandra Kendall at Sidney Liswood Library, and Warren Holder and Sian Miekle at Robarts, have trained clinicians and librarians in Ethiopia and the scope of the project will be expanded to cover the needs of the Toronto Addis Ababa Academic Collaboration (TAAAC).

Surgery in Africa Reviews
We continue to publish narrative reviews on a broad range of surgical topics focusing on clinically relevant aspects of surgery in resource constrained settings. Contact andrew.howard@sickkids.ca if you are interested in writing a review. Reviews, dating back to 2005, are online at www.ptolemy.ca/members. A plan for the coming year is to put on a series on surgical critical care and trauma. The College of Surgeons of East, Central, and Southern Africa now uses our reviews as a mandatory component of their residency curriculum.

Bethune Round Table on International Surgery
This annual Canadian academic meeting is one of the first to focus on surgical aspects of global health. A unique aspect of this meeting is the large number of presenters who come from low income countries thanks to scholarship money raised.

Prakash Foundation LINCS Scholarships
The Prakash Foundation Low Income Country Surgical (LINCS) Scholarships allow trainee surgeons to pursue fellowships or portions of a residency at University of Toronto. Scholarships began to be offered in 2013 and initially will be up to $70,000 per year. Applicants will be selected based on academic potential in the home country upon return and acceptance by a surgeon or division in Toronto. Contact andrew.howard@sickkids.ca for more information.
Over the past academic year the Division has continued to provide exceptional medical education and research training to undergraduate and graduate students. The faculty continue to develop new tools and innovative strategies to teach and train the over 2500 students that are enrolled in courses provided by the Division.

Our undergraduate research course was enormously successful this past academic year, doubling in size. The desire for undergraduate students to gain hands on research is clearly evident. We are thrilled to see the increased demand for the course and the willingness of researchers within the Faculty of Medicine to offer students the opportunity to train in their labs. Many of these students are interested in graduate school so we are truly investing in the future of science in Canada.

We are thrilled to celebrate the outstanding teaching and research achievements of our faculty. Dr. Mike Wiley was awarded the IMS Graduate Course Director Award. Dr. Anne Agur completed her term as the President of the American Association of Clinical Anatomists. She was also awarded the IMS Mel Silverman Mentorship Award for her outstanding mentorship and service as a role model for graduate students. Dr. Barbara Ballyk was recognized with the “Excellence in Undergraduate Teaching in Life Sciences” award that honours outstanding and sustained contributions to undergraduate Arts and Science teaching in Life Sciences programs and the undergraduate experience at the University of Toronto. Dr. Ian Taylor was the recipient of the Dr. Mary Hollington Teaching Award for excellence in pre-clinical teaching.

Our Division faculty were highly successful in acquiring external funding for their research endeavours. Collectively we acquired over $3 million from funding agencies including 2 CIHR operating grants (Morshead); NSERC Collaborative Research and Development Grant (Agur); Ontario Brain Institute (Morshead), 2 Heart and Stroke Foundation Grants (Morshead, Sun); Brain Canada (Morshead); UofT and Universidade de Sao Paulo Joint Grant (Sun); Scottish Rite Charitable Foundation (Sun); the Canadian Stroke Network (Morshead) and the Centre for Stroke Recovery (Morshead).

The graduate trainees in the Division have been the recipients of numerous accolades. Dr. Dave Piccin (Morshead, supervisor) successfully defended his PhD thesis entitled “Signaling pathways that regulate neural stem cell behaviour in the adult stem cell niche”. His thesis was nominated for the prestigious Governor General’s Gold Medal Award at the U of T. Christine Bae (Sun, supervisor) received her MSc based on her thesis “Transient Receptor Potential Melastatin 7 Channel Affects Neurite Outgrowth of Hippocampal Neurons in vitro”. Kristina Wakimoto (Agur, supervisor) was awarded research funds to support her work examining the effectiveness of the anatomy glove learning system in the training of massage therapy students ($15,550). Parvati Dadwal (Morshead, supervisor) was the recipient of a CIHR and Heart and Stroke Foundation training fellowship. Ekaterina Turlova (Sun, supervisor) received the CIHR MSc trainee award. Our graduate program continues to grow and we welcome 7 new graduate students to the Division.

This past academic year we have seen an enormous demand on the Division resources and recognize a very real challenge for medical training in the future. Most notable is the increasing demand for cadaveric material. Uof T is the largest willed body programs in Canada. The Division received over 200 body donations last year yet we are still not able to keep up with the demand for cadaveric specimen. The generosity of the donors is not a limiting factor. We are faced with the fact that there is a need to expand the capacity of the Division in order to be able to accept more donations. We need to look at ways to expand our capacity to ensure that we can continue to excel in the education and training of students and researchers.
The Division of Cardiac Surgery continues to thrive. We are clinical innovators in mechanical support/heart failure, complex aortic reconstruction, mitral valve repair, and congenital heart surgery. Our research programs are largely focused on translational research with direct clinical application and lead by investigators from Saint Michael’s Hospital, the Toronto General Hospital, Sunnybrook Health Sciences Center, and the Hospital for Sick Children.

**Training**

The Division of Cardiac Surgery renewed Royal College accreditation in 2013 with Unconditional Approval

**Recruitment**

Maral Ouzounian was recruited to join the Cardiac Surgery group at the Toronto General Hospital with specific expertise in complex aortic surgery. She will begin clinical duties in July 2013.

**Promotions**

Fuad Moussa was promoted to the rank of Assistant Professor.

**Research Grants**

John Coles holds a grant from the Hospital for Sick Children Garron Family Cancer Centre (“Repurposing of FDA-Approved Drugs to Prevent Cardiotoxicity in Cancer Chemotherapy”).

Stephen Fremes holds one grant from the CIHR (“Improving the Assessment and Treatment of Severe Aortic Stenosis by Evaluating Care Gaps and Advancing Risk Predictions”).

Ren-Ke Li holds one grant from the Canadian Institutes of Health Research (“Ultrasound-targeted gene delivery to enhance cell engraftment in the aged heart after ischemic injury”).

Fuad Moussa holds a grant from the SEAC ERC Education Research and Scholarship Grant Competition (“Developing and Evaluating a Simulation Based Program for Teaching Off-Pump Coronary Bypass Surgery”).

Mark Peterson holds one grant from the St Michael’s Hospital Innovation Fund (“TAC-CALL: Thoracic Aortic Care. Comprehensive Aortic Care on-line from Acute Presentation to long-term Follow-up”).

Glen Van Arsdell holds a grant from the Heart and Stroke Foundation (“Can Sustained Postoperative Biventricular Pacing Improve Hemodynamics in Children with Electromechanical Dyssynchrony After Surgical Repair of Congenital Heart Disease?”).

Subodh Verma holds two grants from the Heart and Stroke Foundation of Ontario (“Elucidating the role of BRCA1 as a target to improve endothelial function, promote angiogenesis and attenuate atherosclerosis” and “The role of autophagy in cardiovascular disease: A bench to bedside translational approach”) and a grant with Bayer AG (“Current Trends in the Management of Atrial Fibrillation in Canada”).

Terry Yau holds an Innovation Fund grant (“Cardiac Regeneration – The Next Generation of Cell Therapy”) and a grant from the Canadian Institutes of Health Research (“The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates”).

Chris Caldarone holds one grant from The Heart and Stroke Foundation of Canada (“A Randomized Controlled Trial of Hybrid and Norwood Surgical Strategies for Single Ventricle Congenital Heart Disease”), one grant from the University Health Network (“The Heart and Minds – CV Biobank: HSC Cardiovascular Management Centre”), and one grant from the University of Toronto (“The Heart and Stroke/Richard Lewar Centre of Excellence: Cardiovascular Management Centre at The Hospital for Sick Children”).

**Resident/Fellows Honours/Awards/Positions Held**

Mitesh Badiwala was awarded the 2013 Royal College Detweiler Travelling Fellowship under sponsorship of Terry Yau and Vivek Rao.

Saswata Deb was awarded the 2012 Vanier Canada Scholar under the mentorship of Steve Fremes. The scholarship provides three years of funding for his PhD thesis work examining patient and operative factors affecting short and long-term graft patency after coronary artery bypass grafting.

Rachel Vanderlaan won the congenital heart surgery resident research prize from the American Association for Thoracic Surgery for “Perioperative risk factors for
in-hospital death or retransplantation in pediatric heart transplant recipients”

Bobby Yanagawa received a Resident’s Research Award from the Physician’s Services Incorporated Foundation for the project entitled “The Role of Birt-Hogg Dubé (BHD) in Adverse Cardiac Remodeling” under the mentorship of Subodh Verma.

Faculty Honours/Awards/Positions Held

George Christakis and Fuad Moussa received Peters-Boyd Academy Teaching Awards for Clerkship Teaching.

George Christakis and Stephanie Brister participated in the Department of Surgery Faculty Development Day.

Lee Errett was appointed as the Wilfred G. Bigelow, Professor of Cardiac Surgery.

Chris Feindel delivered the annual Bigelow Lecture at the 2012 Canadian Cardiovascular Congress.

Ren-Ke Li received the Canadian Academy of Health Sciences Fellowship from the Government of Canada, the Fellow of the American Heart Association (FAHA) from the Council on Cardiovascular Surgery and Anaesthesia, the Mel Silverman Mentorship Award from the Institute of Medical Science at the University of Toronto, and the CPAC Professional Achievement Award from the Chinese Professionals Association of Canada.

Fuad Moussa, Stephanie Brister, Daniel Bonneau, and Ed Hickey joined the Surgical Leaders in Undergraduate Education which is sponsored by the Department of Surgery and championed by George Christakis as the Surgical Director of Undergraduate Education.

Fuad Moussa received a Masters in Medical Education from the University of Dundee.

Fuad Moussa was appointed as the Director of Undergraduate Surgical Education at SHSC.

Subodh Verma was awarded the 2013 Royal College Medal Award in Surgery awarded annually to one surgeon in Canada across all surgical disciplines who has demonstrated excellence as an academic surgeon and whose research work has made significant impact and the St. Michael’s Jameel Ali Award for Excellence in Continuing Education in Surgery. He was also reappointed to the Canada Research Chair in Atherosclerosis. Subodh Verma was also appointed the co-chair of the Toronto Acute Coronary Syndrome Summit and the State of the Heart Symposium.

Visiting Professors

David Adams from Mount Sinai Hospital in New York was the 2013 Harland Smith Memorial Lecturer delivering a lecture examining pathologic considerations in mitral valve disease and repair to the Department of Surgery.

Michael Borger from the University of Leipzig delivered a lecture to the Division of Cardiac Surgery entitled “Advances in Aortic Valve Interventions: Technological Improvements Versus Economic Realities”

Division Firsts

Innovation Funds Provincial Oversight Committee (IF-POC) at Saint Michaels Hospital approved funding for a University-wide collaborative group focused on the treatment of aortic pathology. The Thoracic Aortic Collaborative (TAC) lead by a multidisciplinary team including surgeons (Mark Peterson, Viv Rao, Andrew Dueck) and a cardiologist (Tim Bradley) received funding for an initiative entitled “ TAC-CALL: Thoracic Aortic Care - Comprehensive Aortic Care on-Line from Acute Presentation to Long-term Follow-Up”

The Cardiovascular Data Management Center (CVMDC) has overcome legal and administrative obstacles to develop a central repository of data for every patient with cardiovascular disease treated at the University of Toronto. The objective is to create a disease-specific database to improve quality of care and, eventually, serve as a clinical research platform. The last obstacles are set to be cleared in September of 2013. This will be the first disease-specific data platform which crosses all specialties and hospitals across the University of Toronto.

Leadership Changes/Progressions

Gideon Cohen was appointed as the Chief of Cardiac Surgery at Sunnybrook Health Sciences Center.

Fuad Moussa was appointed as Co-Chief of the Cardiac ICU at SHSC.

Richard Weisel was appointed to join the staff at the Hospital for Sick Children on a part time basis to lead and integrate research activities within the Labatt Family Heart Center and Division of Cardiac Surgery.
The Division of General Surgery continues to excel and make major contributions to the University of Toronto and to the healthcare system. In addition to delivering excellent care to their patients and their families, individuals and teams across the division are having a major system impact within the context of the rapidly changing healthcare system. In addition to standard metrics such as papers and grants, there is significant tangible evidence of the positive impact the division has on the entire healthcare system.

**Education**

The significant education research, particularly in the area of simulation, continues to develop. Consistent with excellence in this domain was the fact that Dr. Boris Zevin won first prize in the Gallie-Bateman research competition in the 2012-13 academic year.

General surgery boasts eight formal fellowships. Under the leadership of Dr. Paul Greig, there has been increasing organization and coordination of the fellowship leaders and their programs. Fellowships have been an enabler of enhanced coordination of the various sites within the University of Toronto divisions. Another high point in the academic year was the publication of the Surgical Oncology manual led by Dr. Frances Wright and colleagues.

There were many major teaching awards won during the year including Dr. Carol-Anne Moulton winning the PARO award for Teaching Excellence, Dr. Marcus Burns winning the C.R Woolf Award and the major teaching awards won by Dr. John Hagen and Dr. Peter Stotland. The awards won by Drs. Hagen and Stotland are consistent with the dramatically enhanced role that the “community-based” hospitals within the University community.

**Research and Innovation**

In the research domain, the papers and grants compiled within the yearly report show the sustained productivity of the Division. Drs. Boris Zevin, Marvin Hsiao and Karineh Kazazian won first prize and second prize at the Gallie day this year for wide-ranging work on topics including a randomized controlled trial in simulation, trauma systems and cancer basic science respectively. Dr. Avery Nathens won the Lister Prize consistent with his significant impact on research and trauma systems. Dr. Catherine O’Brien had 2 major publications in Cell and Science which represented high points in the basic science productivity of the Division.

**Faculty Development**

Recruitment of Dr. Agostino Pierro for Division Chief at the Hospital for Sick Kids and the recruitment of Dr. Joao Rezende-Neto at St. Michael’s Hospital represented divisional recruitment this year. Dr. Barto Nascimento was recruited as an academic hospitalist, a new role that may have opportunity to be expanded across the city.

Drs. Allan Okrainec and Alice Wei were promoted to Associate Professor.

Dr. Nancy Baxter became the Division Chief at St. Michael’s Hospital and Dr. Nancy Down became the Division Chief at North York General Hospital. It is notable that five of the ten Division Chiefs in General Surgery across the city of Toronto are women, consistent with the division’s nurturing of female leadership.

The graduating class from the Gallie program in General Surgery this year numbered fifteen. This group of individuals went on to next steps including a substantial number who went on to prestigious fellowships in the United States.

Transplantation and HPB Fellowship Reunion in Honour of Dr Bernard Langer.
Division of Neurosurgery
Andres Lozano, Chair

Our 64 Faculty and residents enjoyed another strong year of achievements in the academic, research, clinical and teaching domains. We performed over 6,000 cases and published over 360 papers. Our Division members received some of the most prestigious awards in our discipline, and James Rutka was appointed as Editor-in-Chief of the Journal of Neurosurgery. This is a historical event to have a Canadian neurosurgeon as editor of the premiere journal in our field and brings great honor to our program. Under the leadership of Abhaya Kulkarni, our Neurosurgery Residency Program successfully completed its six-year review by the Royal College of Physicians and Surgeons of Canada. Our fellows program continues to flourish with 23 city-wide clinical fellows, including two Dan Fellows in Neurosurgery—a program now in its second year that was enabled by the generosity of Dr. Michael and Amira Dan.

Recruitment. We welcomed four new Faculty: Paul Kongkham, Mohammed Shamji, Ivan Radovanovic (Toronto Western Hospital) and Victor Yang (Sunnybrook Hospital). Mark Erwin joined our Division as an Affiliate Neuroscientist.

Promotions. Clement Hamani and Michael Taylor were promoted to the ranks of Associate Professor and Professor, respectively.

Research Grants. Our neurosurgeons and affiliated neuroscientists held over $32.6M in total grant funding, including 20 newly awarded research grants.

Resident/Fellows Honours/Awards/Positions Held
- David Cadotte and Nir Lipsman (PGY4) won the 2013 K.G.McKenzie Prizes in Clinical Neuroscience Research.
- Shobhan Vachhrajani (PGY4) was appointed as the Vice-Chair of the Clinical Practice Guidelines Committee of the Canadian Neurological Sciences Federation.

Faculty Honours/Awards/Positions Held
- American Academy of Neurological Surgery (AAcNS) President and R.S. McLaughlin Chairman of Surgery James Rutka delivered the 2012 AAcNS Presidential Address.
- Charles Tator was selected as the 2012 Gallie Surgical Lecturer by The Royal College of Physicians and Surgeons.
- Michael Fehlings was awarded the Winn Prize from the Society of Neurological Surgeons.
- Mark Bernstein received the 2013 Humanitarian Award.
from the American Association of Neurological Surgeons.
- James Rutka received the inaugural 2012 Abhijit Guha Award from the Society for NeuroOncology and the Section on Tumors of the AANS/CNS.
- Andres Lozano received the Olivecrona Award and Medal from the Karolinska Institute.
- Todd Mainprize receive the Peters-Boyd Academy Mentorship Award.
- Michael Fehlings won the Queen Elizabeth II Diamond Jubilee Medal.
- Andres Lozano was the inaugural recipient of the quadrennial Tasker Award from the World Society for Stereotactic and Functional Neurosurgery.
- Michael Fehlings received the 2012 Jonas Salk Award.
- James Rutka was appointed as the seventh Editor-in-Chief of the Journal of Neurosurgery.

Visiting Professors
- Sepideh Amin-Hanjani, University of Illinois and Ivan Radovanovic, Geneva University Hospital, 45th Lougheed Microsurgical Course, Oct. 22-26, 2012
- Giuseppe Lanzino, Mayo Clinic, 46th Lougheed Microsurgical Course, Apr. 8-12, 2013
- Giuseppe Lanzino, Mayo Clinic, City-Wide Rounds at St. Michael's Hospital, Apr. 12, 2013
- Howard Yonas, University of New Mexico, City-Wide Rounda at Sunnybrook Hospital, May 24, 2013
- P. David Adelson, Barrow Neurological Institute, 27th E. Bruce Hendrick Visiting Professorship, May 31, 2013

Division Firsts. PGY4 residents David Cadotte, Jeff Wil- son, George Ibrahim and Shobhan Vachrajani served as mentors in our Division's new PGY1 mentorship program. We thank them for an outstanding job in service to their junior colleagues.

Leadership Changes/Progressions. Todd Mainprize was selected as and has accepted the position of Interim Head of the Division of Neurosurgery at Sunnybrook Hospital, effective July 1, 2013. We thank outgoing Division Head Michael Schwartz for his leadership at Sunnybrook for the past fifteen years.

Royal College Fellowships. The following PGY6 residents successfully passed their FRCSC fellowship examinations: Soha Al-Omar, Michael Ellis, Gregory Hawryluk, Scellig Stone and Adrienne Weeks.

We can again reflect on the past academic year with a sense of pride and accomplishment. We have been enriched by the recruitment of four new Faculty. We pause to remember the passing of Professor Emeritus Dr. Robert (Bob) Elgie. Our external review indicates that Toronto Neurosurgery remains the standard to which other programs are held around the world. I would like to thank each of our outstanding Faculty, fellows and residents for their dedication and contributions.
We worked to implement our strategic plan entitled “Innovation and Evolution: Inventing the future of Toronto Orthopaedics” this past year. Three work groups: Education lead by Peter Ferguson, Research lead by Albert Yee and Clinical headed by Nizar Mahomed were formed. We are making steady progress navigating the future of orthopaedics in Toronto in all three of these areas.

We completed the fourth year of our competency-based curriculum. This 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. I want to take this opportunity to thank all of our faculty members, who worked on this initiative. Markku Nousiainen our associate program director and Peter Ferguson, our residency program director have done a phenomenal job in running the day to day aspects. By all measures this program has been a great success, with residents in the program achieving levels of competency in a single year that would have taken several in the traditional stream. Two third of the first cohort completed and successfully passed their royal college exams a year early (decreasing training time by 20%). There is worldwide interest in this program, and we now have several peer-reviewed publications on the outcome of this novel training approach, and will be running a course in April to teach the core components to orthopaedic educators from around the world.

Peter Ferguson continues to do a stellar job as our residency program director. Under his guidance we had a very successful external Royal College Review of both (Regular and CBC) streams of the program with no significant weaknesses identified. One of our future initiatives will be to take the necessary steps to enable our residency training program to switch to a competency-based curriculum as our multi-site clinically based programs continue to mature. Therefore, starting next year, the entire residency will move to a competency-based framework, and this will be a new phase in this novel program.

As part of our initiative to develop a broader competency based program, we are starting to think about organizing some aspects of education, research, and clinical care along specialties rather than sites. Albert Yee (Sunnybrook) along with Michael Fehlings (Neurosurgery – TWH) as co-director of the U of T Spine Program, are doing a fabulous job working to integrate spine care, education and research across orthopaedics but also between orthopaedics, neurosurgery and other disciplines treating the spine. Tim Daniels (SMH) as the head of our foot and ankle program has developed a Toronto wide foot and ankle education program (including a city wide fellowship program), and is helping to coordinate care between foot and ankle specialists in the GTA, and to encourage new research in this field. Darrell Ogilvie Harris (UHN and Women’s) continues to do a stellar job as interim head of our sports program. This program united clinicians from several of our hospitals and developed shared clinical resources for outpatient care at Women’s College Hospital towards the development of an innovative comprehensive sports clinical, education, and research program. The program has developed a fully integrated education module for residents and fellows.

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 develop 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 of research.

The Toronto Musculoskeletal Centre (a university wide extra-departmental unit) was initiated last year. While the center crosses all institutions and departments across the broad University of Toronto and its affiliated hospitals community, it has two nodes at Sunnybrook Hospital and Mount Sinai Hospital. The centre focuses on developing initiatives to help translating research from the bench to the bedside to the backyard. Several trainees working with members of our division received salary support for their interdisciplinary translational research. The centre is developing a new collaborative graduate education program, and helping with the recruitment of new MSK researchers to Toronto. Its ultimate goal is to develop new and improved methods of treating patients with orthopaedic and other musculoskeletal conditions. Our division members will be able to use the centre infrastructure to develop multi centre research and to help develop new interdisciplinary work.

Sevan Hopyan and Cari Whyne, as co-chairs of our research committee continue to do 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.
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 maintain research funding at a high level, with our funding this year totaling more than $6 million dollars.

We welcomed two new recruits this academic year, Andrea Veljkovic and Jas Chahal. Andrea has a clinical practice focused on foot and ankle surgery and an academic focus on research, and Jas has a clinical practice focused on sports surgery and an academic focus on education. We all welcome Andrea and Jas to our faculty.

Congratulations to our faculty members who were successful at academic promotion this year at the university. Richard Jenkinson, John Theodropoulos and Thomas Willett were promoted to Assistant Professor. Markku Nousiainen received PGME Award for Excellence in Development/Innovation in recognition of his leadership and organization skills, course/curriculum and evaluation tools development and restructuring of teaching/evaluation component and David Wasserstein won Zane Cohen Clinical Fellowship Achievement Award (Award for most significant achievement made by a clinical fellow. Achievement will be defined as any significant contribution made in any of the domains of medicine: clinical research, basic science research, publications, presentations, medical education/teaching, medical administration systems, delivery of medical care, medical related community service, etc.) at Gallow Day this year. Our Graduation Day Visiting Professor was Richard Rothman from Philadelphia. He gave a fabulous and very insightful “Creating Centre of Excellence” talk 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 Sarah Ward and Mark Camp, and the Meisami award for most compassionate resident, as selected by the faculty, went to Mark Camp.

Junior Lawson Awards went to Hadi Sayedi (PGY 4), Brent Mollon (PGY 3) and Alireza Naderipour (PGY 2). The R.I. Harris award for the best presentation at the Graduation Day went to Ben Escott and the Bob Jackson (for the best sports medicine talk); Canadian Back Institute (for the best spine talk) and Award Best Paediatric Paper went to Sebastian Tomescu, Jeremie Larouche and Ben Escott respectively. The James Waddell award for the best PGY 4 resident was awarded to Mark Camp. David Backstein received the Divisional Award for Best Teacher as selected by the residents.

Dan Sucato (Dallas), Martha Murray (Boston), Roger Cornwall (Cincinnati), Sheldon Lin (New Jersey), Derek Moore (Boston) all visited Toronto this year and gave University wide grand rounds. We had the second Stefan-sky lecture for teaching better communication to orthopaedists. Wendy Levinson (Toronto), was our lecturer. She gave an insightful talk on the importance of good communication in achieving excellent patient outcomes.

I wanted to give a very special thank you to Dan Stojimirovic, our program coordinator. In addition to the support Dan provides to our divisional committees and the residency program, he also is incredibly loyal, working evenings and weekends to help in our mission. Dan trained as an orthopaedic surgeon, and in addition to the administrative support, he has participated in some of the division’s research, and been a co-author on publications and presentations. He is the glue that keeps the division running, and we are extraordinarily lucky that we are able to have him in our division.

As I’ve reflected on the state of orthopaedics at the University, it is clear to me that we are doing extremely well in all aspects of our activities. We worked hard together to develop innovative interdisciplinary approaches to patient care, to undertake high impact paradigm changing research, and to provide exceptional quality education programs. Indeed, I can proudly boast that our research, patient care and education is as good as, if not better, that that available anywhere else in the world, and feel we have accomplished much more than we set out to do when I started as division head. Since we are doing so well, and accomplished so much, I’ve decided that it is the right time for me to make a change in my career. This is not a decision I would have made unless I knew that we were on the right course, and that our division will continue to grow and prosper. Indeed, I am so proud of what we have accomplished, and our standing as one of, if not the, best orthopaedic programs in the world. Nothing can stand in the way of our strong upward trajectory, and it is all of our divisional members, not the chair, that make this happen. I’ve had the incredible honor and privilege to serve such a talented group of faculty members that have made so much happen, and am humbled by the incredible dedication to our mission and loyalty I have seen in each of them. I have every confidence that an interim and ultimately a new division head will be found, who will foster even greater achievements than I was ever able to accomplish. I am looking forward to continuing the personal relations I have with each of our faculty members, to the continued success of Toronto orthopaedics, and to seeing where you go, as we continue on the path of inventing the future of orthopaedics.
Division of Plastic & Reconstructive Surgery  
Christopher R. Forrest, Chair

With our faculty and house-staff, we are the largest academic Division of Plastic and Reconstructive Surgery in North America and have a powerful combination of community and academic partnerships with access to the entire spectrum of surgical experience for our trainees and world-renowned staff in the arenas of pediatric surgery, cleft, craniofacial, burns, microsurgery, facial reanimation, upper extremity, breast, aesthetic and oncologic surgery providing state of the art in patient care. 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

Steven McCabe was recruited as an Associate Professor as well as Director of the Hand Program at the Toronto Western Hospital on August 1, 2012.

Anne O’Neill was recruited as an Assistant Professor at the University Health Network and Mt. Sinai Hospital on January 1, 2013.

Promotions

Greg Borschel (Hospital for Sick Children) was promoted to Associate Professor

Stefan Hofer (UHN) was promoted to Professor

Marc Jeschke (Ross Tilley Burn Centre) was promoted to Professor

Departures

Dr. Hugh G. Thomson, MD, MSc, FRCSC (1930 – 2012) was Professor Emeritus in the Division of Plastic and Reconstructive Surgery, University of Toronto and staff surgeon at the Hospital for Sick Children for 43 years (1960 – 2003).

Research Grants


Colantonio, A, Stergiou-Kita, M Melpomeni, M and Jeschke M. Promoting employment success through workplace accommodation following traumatic brain injury and electrical injury. Canadian Institutes of Health Research (CIHR). CIHR Operating Grant - $100,000 2012-2013.


John Phillips, Saber N and Christopher Forrest - The Use of Prefabricated Templates in Cranial Vault Remodeling. Hospital for Sick Children Peri-operative Services Innovation Grant ($10,000 – 2012)


Resident/Fellows Honours/Awards/Positions Held

Heather Baltzer: Won second place in the McMurrich Poster Competition award. 2013
- Mentor Canada, Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award, 2013: Title: “The Use of MRI to Predict Residual Nipple Fibroglandular Tissue Following Prophylactic Nipple Sparing Mastectomy”. Authors: Baltzer H, Alonzo O, Metcalfe K, Narod S, Warner E, Yaffe M and Semple J. Supervisor: Dr. John Semple
- Awarded one of ten Novartis Oncology Young Canadian Investigator Awards (NOYCA) by the NOYCA Program Committee for her work entitled “MRI volumetric analysis of fibroglandular tissue to assess risk of the spared nipple in BRCA 1/2 patients who are considering prophylactic nipple-sparing mastectomy”.
- The FM Woolhouse Award for the best presentation of a clinical study by a resident for her presentation “MRI volumetric analysis of breast fibroglandular tissue to assess risk of the spared nipple in BRCA 1/2 patients who are considering prophylactic nipple sparing mastectomy” with co-authors O Alonzo, M Yaffe, K Metcalfe, E Warner and J Semple.

Karen Cross: Dr. Hugh G. Thomson Humanitarian Award 2013.

Siba Haykal: First prize Gallie-Bateman award, Gallie Day, Department of Surgery, U of T, 2013
- Best Basic Science Research Award, Visiting Professor Day, Division of Plastic Surgery, 2013
- Best Basic Science Research Award, Canadian Society of Plastic Surgeons meeting, 2012
- Alan Wu Poster Competition Finalist, Institute of Medical Science Research Day, 2012
- Vanier Canada Graduate Scholarship, CIHR, 2012-2015
- Best Basic Science Research Award, Visiting Professor Day, Division of Plastic Surgery, 2012- Successfully completed the PhD Program at the Institute of Medical Science. CIHR Training Program in Regenerative Medicine Scholarship 2009 - 2013. Siba has been working on tracheal allograft reconstruction with her supervisors Drs. Tom Waddell and Stefan Hofer for the past 4 years.

Mike Hendry: Accepted into the 2012 - Clinical Investigator Program - accredited postgraduate medical education program of the Royal College of Physicians and Surgeons of Canada. Awarded full salary support and benefits for first year of study.
- Mentor Medical Systems Scholarship award. Value of full tuition for the 2012-2013 academic year, $8402.52.
- James F. CROTHERS Family Fellowships in Peripheral Nerve Damage OSOTF Award. Awarded through the OSOTF and Restricted Awards competition offered through the Faculty of Medicine, Graduate Affairs Office, University of Toronto, $11000. 2012
- Joseph M. West Family Memorial Fund. Awarded as part of the 2012-2013 Postgraduate Research Awards competition offered through the dept. of Postgraduate Medical Education, University of Toronto, $6750.00 awarded in combination with William S. Fenwick Fellowship.
- William S. Fenwick Fellowship. Awarded as part of the 2012-2013 Postgraduate Research Awards competition offered through the dept. of Postgraduate Medical Education, University of Toronto.
- Received the 2012 Restracaomp Research Training Competition Studentship, $40,000 per annum. This studentship is supported, fully or in part, by the Ontario Student Opportunity Trust Fund - Hospital for Sick Children Foundation Student Scholarship Program.

Olivia Ho: Best scientific paper presentation at the 33rd Annual GAM meeting for her paper “Incidentalomas associated with abdominal and pelvic CT angiograms for abdominal based breast free flap reconstruction” with co-authors Stefan Hofer and Toni Zhong. 2013.

Jennica Platt: Canadian Society of Plastic Surgery Educational Foundation Award for Best Presentation by a Resident in Epidemiology and Biostatistics ($500) 2013.
- The Educational Foundation Award for the best Epidemiology & Biostatistics Presentation for paper “Regional variation in rates of immediate breast reconstruction: It matters where you live in Ontario” with co-authors T Zhong, AM Easson, G Booth, R Moineddin and NN Baxter. 2013.
- Best Clinical Paper Award and Research Recognition Award – Annual Division of Plastic and Reconstructive Surgery Research Day - 2013
- CIHR Institute of Community Services with Institute of Health Services and Policy Research – Travel Award ($1500) “Referral Pattern of Ontario General Surgeons to Plastic Surgeons for Breast Reconstruction” March 2013
- CIHR Master’s Award: Frederick Banting and Charles Best Canada Graduate Scholarship ($17,500 x 1 year) Geographic Access to Breast Reconstruction in Ontario and Influence of Physician Availability” Sept 2012 – 2013
- GlaxoSmithKline-Canadian Breast Cancer Foundation Ontario Region Physician Fellowship ($71,500 x 1 year) “Identification of the Factors that Influence Access to Postmastectomy Breast Reconstruction in Breast Cancer
Survivors in Ontario: A Population-Based Study” July 2012 – 2013
- Undergraduate Medical Education Ethics and Professionalism Seminar Tutor – University of Toronto, Faculty of Medicine, 2010-2013

Ron Somogyi: D.R. Wilson Resident Teaching Award 2013

Faculty Honours/Awards/Positions Held
Brett Beber: Arnis Freiberg Faculty Teaching Excellence Award 2013.

Mitchell Brown: Division of Plastic and Reconstructive Surgery Chair’s Award for “going above and beyond” 2013
- Elected as an Active Fellow in the American Association of Plastic Surgeons.
- Visiting Professor - University of Manitoba, April 5, 2013
- Chair - Scientific Committee, Breast Section - ASPS

- Senior Fellow, Massey College, University of Toronto. 2012
- Distinguished Visiting Professor, 2012 Barwick Lecturer, Department of Surgery, Duke University, Durham, North Carolina, November 13-14, 2012. 2012
- Canadian Society of Plastic Surgeons, Vice-President Elect, 2013
- RCPSC Specialty Committee in Plastic Surgery, Member, 2012

David Fisher: The Hospital for Sick Children, has been inducted into the membership of the American Association of Plastic Surgery at the 92nd Annual Meeting in New Orleans.
Dr. Christopher Forrest underwent a 10 year review of his leadership of the division in November 2012 and was successfully re-appointed for a third 5-year term. Dr. Richard Hopper (University of Washington, Seattle) was the external reviewer and described the division as having an “unparalleled international reputation”.

Marc Jeschke:
- Awarded the George Armstrong Peters Award 2012-2013.
- Awarded the Chair in Burn Research at Sunnybrook Health Sciences Centre/University of Toronto.

Ron Levine: Charles Mickle Fellowship Award for 2013.

Christine Novak:
- American Association for Hand Surgery, Hand Journal Committee; First Assistant Co-chair, 2014 Program Committee

American Society for Surgery of the Hand, Annual Meeting Program Committee, 2009-2013
- American Society for Peripheral Nerve, Council, Member at Large, 2011-2013
- Program Committee Chair, 2013-2014
- Associate Editor: Journal of Hand Surgery, HAND, Physiotherapy Canada

Cho Pang: Division of Plastic & Reconstructive Surgery Lifetime Achievement Award 2013
Shar Shahrokhi (RTBC – Sunnybrook Health Sciences Centre) was nominated for the 2012-2013 Peters-Boyd Academy Clerkship Teaching Award.

Laura Tate: Certified Canadian Physician Executive [CCPE] designation through the CMA and Canadian Society of Physician Executives. Peer reviewed/LEEDS assessment. 4 year term.


Toni Zhong: William K. Lindsay Faculty Research Mentor Award 2013.

Visiting Professors
2013 Hoyle Campbell Visiting Professor
The Division of Plastic and Reconstructive Surgery shone brightly at the 28th Annual Hoyle Campbell Annual Research Day on Friday February 22, 2013. This year’s Hoyle Campbell Visiting Professor was Dr. Michael Neumeister. This was an exceptional year of high quality research and engaging eloquent presentations by our fantastic group of residents. Dr. Neumeister is the Chair of the Department of Surgery at Southern Illinois University and the Past President of the Plastic Surgery Foundation and the American Society for Reconstructive Microsurgery.

11th Annual R.T. Manktelow Hand and Microsurgery Lectureship
This year’s Ralph T. Manktelow Hand Surgery Day was held on Friday, October 12th, 2012. This year’s Visiting Professor was Dr. L. Scott Levin, Paul B. Magnuson Professor of Bone and Joint Surgery Chairman, Department of Orthopaedic Surgery, Professor of Surgery, Division of Plastic Surgery Philadelphia, Pennsylvania. Dr. Levin’s keynote address was entitled, “The Microsurgical Leader for Extremity Reconstruction – A Half Century of Progress”
The 9th Annual Lindsay-Thomson Symposium in Pediatric Plastic Surgery was held on April 5th, 2013. The 2013 Vale Visiting Professor was Dr. John B. Mulliken, Professor of Surgery, Harvard Medical School and he lectured on Repair of Bilateral Cleft Lip and Nasal Deformity: 3rd and 4th Dimensions

The Wharton Lecture (sponsored by Dr. Stefan Hofer, UHN) was presented by Dr. Greg Evans, President, ASPS from UC Irvine, California on June 14, 2013. Dr. Evans presented on “Recent advances in breast reconstruction”.

**Continuing Medical Education**

Comprehensive Hand and Wrist Fracture Management Course was held at the Vaughn Estates at Sunnybrook on Saturday May 5, 2012. Course co-chairs: Drs. Terry Axelrod and Paul Binhammer.

The 13th Annual Toronto Breast Symposium was held on April 25th, 2013 at the Westin Harbour Castle and welcomed Visiting Professors: Dr. James Grotting, J Michael Drever Annual Lecturer, University of Alabama at Birmingham (Birmingham, AL), Dr. Andrea Pusic, The University of Toronto Annual Lecturer, Memorial Sloan-Kettering Cancer Center (New York, NY) and Dr. Risal Djoohan, Cleveland Clinic (Cleveland, OH). This symposium was chaired by Dr. Mitch Brown and co-chaired by Dr. Brett Beber and Dr. Kyle Wanzel.

The 43rd Annual Aesthetic Plastic Surgery Symposium was held from April 26th – April 27th, 2013. Visiting Professors included: Dr Nazim Cerkes (Istanbul, Turkey), Dr. Ashkan Ghavami (Beverly Hills, CA) and Dr. Dan Del Vecchio (Boston, MA). This symposium was chaired by Dr. Jamil Ahmad and co-chaired by Dr. Frank Lista and Dr. Tom Bell.

4th Annual Division of Plastic and Reconstructive Surgery Research Day was held on February 22, 2013 at St. Andrew’s Club and Conference Centre. This mini-symposium was well attended with 80 attendees which included faculty, residents, fellows and alumni.

The University of Toronto Transplant Institute, in conjunction with the University Health Network and its affiliated teaching hospitals; including the Sunnybrook Health Sciences Centre, St. Michael’s Hospital, Hospital for Sick Children, and Mount Sinai Hospital, held its Annual Day in Transplantation entitled ‘New Horizons in Transplantation’ at the Li Ka Shing Auditorium on Monday, December 17, 2012. The purpose of this day is to hold a forum for investigators interested in areas related to transplantation to communicate their completed work, work in progress, or new ideas.

1st Annual Sunnybrook Burn Symposium was held on June 4th, 2013 at the Vaughan Estates. Congratulations to Dr. Marc Jeschke for kick-starting CME in Burn Care. This symposium featured state of the art in both adult and pediatric burn care sponsored by the Ross Tilley Burn Center and SickKids. The inaugural Walter J. Peters lecture given by Dr. Richard Gamelli, the Senior Vice President and Provost of Health Sciences at Loyola University of Chicago. Dr. Gamelli is a world-renowned burn surgeon and is currently the President of the International Society for Burn Injuries and past President of the ABA (American Burn Association) and the Editor-in-Chief of the Journal of Burn Care and Research.

Second Annual Breast Reconstruction Awareness Day (BRA Day) was held Wednesday, October 17th, 2012 from 6:00-9:00 p.m. at the Bram & Bluma Appel Salon at the Toronto Reference Library, Toronto Reference Library, 2nd Floor.

Dupuytren’s Day: On Friday, May 3rd from 8:30 am to 1:30 pm, a “Dupuytren’s Day” was held which featured some local and out of town speakers including, Dr. Randy Bindra, from Chicago, Dr. Bing Gan from London, and Dr. Achilles Thoma from Hamilton.

**Division Firsts**

Drs. Ronald Zuker and Greg Borschel have successfully received approval for the Pediatric Composite Vascularized Allotransplantation Protocol from the Ministry of Health and Long Term Care. This is the first approved protocol in the pediatric world and opens opportunities reconstructive world to include allotransplantation for limb loss and severe facial disfigurements.

**Leadership Changes/Progressions**

Dr. Christopher Forrest, Chief, Division of Plastic & Reconstructive Surgery at the Hospital for Sick Children assumed the role of Chair, Division of Plastic and Reconstructive Surgery July 1, 2013.

**Royal College Fellowships**

Karen Cross successfully passed her RCPSC fellowship examination.

Saad Al-Qahtani successfully passed his RCPSC fellowship examination.

Kunaal Jindal successfully passed his RCPSC fellowship examination.

Ron Somogyi successfully passed his RCPSC fellowship examination.

Roberto Tutino successfully passed his RCPSC fellowship examination.

Jing Zhang successfully passed her RCPSC fellowship examination.

**Concluding Paragraph**

The Division of Plastic and Reconstructive Surgery at the University of Toronto remains a powerhouse of accomplishment in research, education and clinical service. Thanks to past plastic surgery leadership and faculty our division has been positioned favourably. With 48 faculty (plus 3 researchers), the Division of Plastic and Reconstructive Surgery is one of the largest academic plastic surgery centres in North America.
At the UHN Division, new programs that have been initiated by the Division of Thoracic Surgery are the Joint Program in Benign Esophageal Disease, led by Dr. Gail Darling as a combined monthly clinic with GI Medicine and General Surgery. This program also features monthly rounds for interesting case discussion. Dr. Darling has also led the rejuvenation of the Esophageal Multidisciplinary Cancer Conference to focus more attention on this important area of Thoracic Surgery.

Dr. Marcelo Cypel was awarded a Canada Research Chair in Lung Transplantation. Notably, Dr. Cypel was invited speaker to 7 International meetings, which is remarkable at such an early stage of his career. Dr. Gail Darling was inducted into the American Surgical Association. Dr. Shaf Keshavjee was awarded a Queen Elizabeth II Diamond Jubilee Award and was named to the Order of Ontario recognizing his many contributions in lung transplantation, thoracic surgery, and surgical leadership. Dr. Tom Waddell was appointed Chair of the American Association for Thoracic Surgery Research Committee and was inducted into the American Surgical Association. Dr. Yasufuku was promoted to Associate Professor at the University of Toronto in 2013. The annual EBUS Training Course was again hosted by Dr. Kazuhiro Yasufuku, who also led or participated in other hands-on courses at the Lahey Clinic, the Brigham and Women’s Hospital in Boston, in Salvador, Brazil, and at the MD Anderson Cancer Center in Houston.

The Division of Thoracic Surgery was honoured with 2 clinical fellows supported by national or International competitive awards. Dr. Stephane Collaud (Graham Fellow of the American Association for Thoracic Surgery) and Dr. Kasia Czarnecka (Cameron Gray Fellowship). Teaching awards were awarded to Dr. Tom Waddell (Ross Fleming Surgical Educator Award (UHN), Dr. Gail Darling (Gail E. Darling Award for Excellence in Undergraduate Teaching and Dr. Kazuhiro Yasufuku (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching). Dr. Wael Hanna won the Shafie Fazel Award. Dr. Siba Haykal (Supervisor T. Waddell) won the Gallie Bateman Prize for Resident Research. Dr. Tiago Machuca won the Brinda Murti Memorial Award for Lung Transplant Research.

Visiting Professors for 2012-13 academic year were: Dr. Alessandro Brunelli (University of Ancona, Italy), Dr. Brian Louie (Swedish Cancer Center, Seattle), and Dr. Ara Vaporciyan (MD Anderson Cancer Center, Houston). Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2012 and included the following Visiting Faculty: Philippe Dartevele (Marie-Lannelongue, Paris), Scott Swanson (Brigham, Boston), Wayne Hofstetter (MD Anderson, Houston) and Lorenzo Ferri (McGill, Montreal).

The academic year concluded with Pearson Day, an annual celebration of clinical and laboratory research by trainees in our Division. Dr. Anna Bendzsak won the Best Clinical Research Award and Dr. Virginia Linacre won the Best Basic Science Research Award. The Pearson Day Visiting Professor was Dr. Richard Finley from Vancouver.
The Division of Urology has had a productive academic year. We currently span 27 geographic full-time faculty as well as 3 full-time PhD scientists, spanned over 6 fully affiliated University-based hospitals. We train over 40 students including 23 residents and 17 Fellows. The Division welcomed a new leader as Dr Neil Fleshner assumed the Martin Barkin Chair after 11 years of strong leadership from Dr Sender Herschorn.

Recruitment:
Dr. Robert Hamilton joined our faculty in the Summer of 2012.

Academic Promotion:
Dr. Robert Nam was promoted to Full Professor
Dr. Rajiv Singal was promoted to Assistant Professor

Research Grants:
The Division of Urology had a banner year in terms of peer-reviewed grant capture. The following faculty served as PI's or Co-PI's on peer-reviewed grants totaling over 3 million dollars:
- Michael Jewett
- Antonio Finelli
- Magdy Hassouna
- Neil Fleshner
- Robert Hamilton
- Girish Kulkarni
- Andrew Matthew
- Bharti Bapat
- Darius Bagli
- Keith Jarvi

Resident/Fellow Awards:
Dr. David Margel (Fellow) was granted 2 awards from the Health Policy Management and Evaluation (HPME) Department including the Claire Bombardier Award for the most promising researcher.
Dr. Nathan Perlis (PGY4) won best poster at the HPME annual research Day
Dr. Li Ming Wong (Fellow) won best poster award at the American Urological Association annual meeting

Faculty Awards:
Congratulations to the following members of our Division who received Queen's Diamond Jubilee Medals: Drs Trachtenberg, Jewett, Klotz, and Fleshner
Dr. Fleshner has been named to the GU Surgeons.
Dr. Herschorn was elected General Secretary of the International Continence Society.
Dr. Laurence Klotz continues as Chair of the World Uro-Oncology Federation
Dr. Fleshner has been elected Chair of the Canadian Uro-Oncology group
Faculty teaching awards went to Drs. Robert Nam, Girish Kulkarni, Antonio Finelli, and Kirk Lo, Rob Hamilton

Visiting Professors:
Dr. Marston Linehan was our Menkes Lecturer
Dr. Joel Nelson was our Robson Professor
Dr. Edward Messing was our Colapinto Lecturer
Urology Update visitors included: Drs. Timothy Boone, Toby Chai, Paul Russo, Adam Kibel, Alvaro Morales, Michael Ritchey, and Fred Saad

Division Firsts:
Dr. Girish Kulkarni performed the first robotic radical cystectomy.
Dr. Antonio Finelli chaired and organized the first “Robotic Surgery in Ontario” symposium.

Leadership Changes:
Dr. Fleshner has assumed the Martin Barkin Chair as University Chair
Dr. Martin Koyle has taken over as Division Chief at Hospital for Sick Children after a strong term by Dr. Joao Pippi-Salle.
The following residents attained their Royal College Certification:
Dr. Ahmed Haddad
Dr. Raj Satkunasivam
This past year has been highlighted by expansion of the direct entry Royal College Program in Vascular Surgery lead by Program Director George Oreopoulos. A second year of successful CaRMS interviews were conducted, with both Canadian and Internationally trained medical students accepted to the program. The Division’s second Annual Vascular Research Day took place in June 21st 2013 with excellent presentations from the trainees, and both guests; Dr Lewis Schwartz and Dr Bradley Strauss. Both speakers focused upon innovation in medicine and the challenges it poses and the barriers that are commonly faced. Dr Lewis spoke on “The Development of Biodegradable Intravascular Scaffolds” and “Medical Innovation” while Dr Strauss discussed “Crossing Innovation Barriers: The Collagenase Journey through Chronic Total Occlusions”.

Renewal in the Division continues with the addition of Dr William Johnson to the staff at Trillium Health Center. Dr Lossing moved his practice from St Michael’s Hospital to Southlake Regional Health Center. Dr Mohammed Al-Omran was selected at the new Division Head of Vascular Surgery at St Michael’s Hospital and he will take up his appointment in September 2013.

There were two CHIR grants awarded to Division members this year. Dr Dueck and his collaborators Drs Wright and Strauss were funded for 5 year for MR-guided revascularization of occlusive peripheral arterial disease ( $562,215. ). Dr Rubin and his collaborator Dr C. Robbins were renewed for a grant titled Microsomal prostaglandin E2 synthase-1 in Ly6Clo monocytes regulates left ventricular remodeling after myocardial infarction.( $471,875)

At Research Day Ahmed Kayssi won first prize for his presentation on Management of Pediatric Vascular Trauma (Supervisor Dr Barry Rubin), and Dr Sydney Wong was the second prize winner for his presentation titled: “A Profile Study of Carotid Angioplasty and Stenting by Canadian Vascular Surgeons Mentor Dr Wooster”. Dr Varun Kapila was the winner of a Sopman Humanitarian award at UHN.

Graduating from the Royal College training program this year was Dr Varun Kapila. Graduating fellows were Dr Michael Delbridge (UK) and Dr Luis Figueroa-Gallaga (Mexico).

Dr. Abdulmajeed Altoijry completed his Master’s Degree in the Institute of Medical Sciences on Vascular Trauma supervised by Dr. Lindsay.
Many members continue to have leadership roles in diverse areas of surgery and leadership in managing changes to the provincial health care system. Over the past two years the Cardiac Care Network has broadened its scope to develop a Vascular Surgery portfolio. Drs Dueck, Johnston, Lindsay and Pope continue to serve on the Provincial Committee working group for Vascular Resource Planning. Dr Dueck has been appointed lead for the Provincial committee for database development. Dr Dueck continues as a member of the Canadian Society for Vascular Surgery Executive. Dr Johnston received the Pioneers in Gore Performance Award for commitment to ongoing learning. Nominations for this award are peer reviewed and voted online. It recognizes “physicians around the world for their unrelenting dedication to advancing vascular and endovascular therapy and improving patient and clinical performance”. Dr Johnston continues his work on the main vascular surgery textbook (Rutherford’s Vascular Surgery), co-editing the chapters, and organized the electronic output for computers and e-books that will be continuously updated with new text, links to abstracts of new key papers, video clips and movies, exam text questions, and chat room capabilities. Dr Daryl Kucey completed his term as Vascular Surgery Tariff chair in December 2012 and became Section of Vascular Surgery Chair at the OMA. Dr William Johnson was awarded the Certificate of Special Competence in Vascular Surgery by the Royal College in the fall of 2012. Dr Lindsay was appointed Chair of the Vascular Surgery Specialty Committee at the Royal College of Physicians and Surgeons for a three year term. He continues as Manager of the TAVS alternate funding plan. Dr Rubin is the Chair of the Expert Panel on Utilization of Diagnostic and Imaging Studies, convened by the Ontario Ministry of Health. In addition, he is the Co-Chair, Ontario Expert Panel on Multiple Sclerosis for which he received the Achievement, Commitment and Excellence Award, Partner Relations from the Ontario Ministry of Health and Long term Care. He also spoke on Vein dilation therapy in Multiple Sclerosis to the Senate Standing Sub-Committee, Social Affairs, Science and Technology in Ottawa. Dr Rubin continues as the Medical Director of the Peter Munk Cardiac Center, Provincial Representative to the Academic Steering Committee and Chair of the UHN MSH Academic Medical Organization. Dr Rubin became a member of the American Surgical Association. Dr Tanner was the Chair if the OMA negotiating Committee which was successful in reaching a two year agreement with the MOHLTC for physician compensation. He continues on the OMA board representing the Surgical Assembly. At the OMA annual meeting Dr Tanner was given a Lifetime Achievement Award for his contribution to the OMA and the province for this service. Dr Wooster continues to coordinate both VITO and TEC in April of this past year as well as providing several Vascular self assessment CME tools. In addition he won the CSVS Sigvaris President’s Award 2012 as well as gave invited presentations at AVID in New York, Winnipeg and San Francisco.

As another academic year closes, I continue to be impressed with the breadth of academic endeavors that our Division members are undertaking. I am particularly pleased with the renewed efforts in education for the direct entry program. I am delighted to see research efforts making an impact and acknowledge the tremendous time and commitment being contributed by so many members to improve care for patients within the province. I would also like to thanks Amicie Davies who became the Chair’s Administrative assistant this past year for all her efforts and Margarita Silva, the Program Director’s assistant whose energy helps foster and sustain our new training program.
The Hospital for Sick Children
James Wright, Surgeon-in-Chief/Robert B. Salter Chair in Surgical Research

Heads of Divisions:

Dr. G. Van Arsdell  Cardiovascular Surgery
Dr. A. Pierro  General and Thoracic Surgery
Dr. J. Drake  Neurosurgery
Dr. B. Alman  Orthopaedic Surgery
Dr. C. Forrest  Plastic and Reconstructive Surgery
Dr. M. Koyle  Urology

The Department of Surgery at The Hospital for Sick Children has had a productive year. Dr. James Wright continued to lead the Canadian Paediatric Surgical Wait Time (CPSWT) Project which measured wait times for children’s surgery in 11 surgical subspecialties. In 2012-13, the project focused on generating benchmark reports and supported knowledge sharing for its participating hospitals. In June 2013, the project contributed high-level findings to the Wait Time Alliance ‘Report Card on Wait Times’ for the fourth year and reported their unchanged finding that 31% of children continued to exceed nationally developed access targets. This report had a circulation/reach of over 37 million.

On April 1, 2013, the project transitioned benchmark reporting for completed cases to the Canadian Association of Paediatric Health Centres-Canadian Paediatric Decision Support Network (CAPHC-CPDSN). Data is submitted to the Canadian Institute for Health Information’s (CIHI) Discharge Abstract Database (DAD) and National Ambulatory Care Reporting System (NACRS) database.

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 percentage of children who exceed nationally developed access targets has dropped from a high of 47% in 2007 to 13% in 2013.

NEW STAFF:

Dr. Ed Hickey joined the Division of Cardiovascular Surgery in July 2012 as a staff surgeon and was appointed Director of Undergraduate Education for the Division of Cardiac Surgery at the University of Toronto. His expertise and interests are in long term outcomes research and medical error.

In April 2013, Dr. Agostino Pierro was appointed Division Head of General and Thoracic Surgery, Senior Associate Scientist at the Research Institute and Program Director for Pediatric Surgery. He also holds the Robert M. Filler Chair in Paediatric Surgery and Professor of Surgery, University of Toronto. His expertise and interests are related to necrotizing enterocolitis, regenerative medicine, and minimally invasive surgery.

DEPARTURES:

Dr. Benjamin Alman stepped down as Head, Division of Orthopaedics effective June 1, 2013 to begin his position as Chairman of the Department of Orthopaedic Surgery at Duke University School of Medicine, North Carolina.
DIVISION OF CARDIOVASCULAR SURGERY

Dr. Edward Hickey joined the division as our fifth congenital heart surgeon this past year. While operating on all ages of patients having congenital heart disease, he has taken the lead role in our adult congenital practice. He is also establishing a clinical outcomes research program.

Dr. Osami Honjo is now leading our transplant and ventricular assist device program for congenital patients. His three presentations at the American Heart Association meeting demonstrate his effective research endeavors. Each of the described leadership positions of Drs. Honjo and Hickey has substantially enhanced our ability to deliver top quality medical care.

Dr. Christopher Caldarone was appointed an Associate Editor for Congenital with the Journal of Thoracic and Cardiovascular Surgery.

Dr. John Coles is managing two CIHR grants.

The Division continues to pursue its mission of delivering unsurpassed patient outcomes and the highest congenital cardiovascular surgery research impact.

DIVISION OF GENERAL AND THORACIC SURGERY

Since his appointment as Division Head of General and Thoracic Surgery, Dr. Agostino Pierro has been the international guest speaker at the scientific meetings of (i) the Australasian Pediatric Surgery Association and the Pacific Association of Pediatric Surgeons (PAPS) in April 2013 and (ii) the American Pediatric Surgical Association (APSA) in May 2013. In April 2013, he was the Visiting Professor at John Hunter Children’s Hospital, Newcastle, NSW, Australia and West Mead Children’s Hospital, Sydney, Australia. In June 2013 he was re-appointed as Chairman of the European Pediatric Surgery Association (EUPSA) Network dedicated to the establishment and co-ordination of multicentre research. In addition he has established randomised controlled trials in Paediatric Surgery and designed clinical care pathways. His previous appointment was Nuffield Professor of Paediatric Surgery and Head of the Surgery Unit at Great Ormond Street Hospital and Institute of Child Health of the University College London, UK.

Dr. Georges Azzie was appointed an honorary Professor in the Department of Surgery at the University of Cape Town, South Africa. He continues to be an Adjunct Associate Professor in the Department of Surgery at the University of Pennsylvania and supervises their senior residents on surgical electives in Botswana for two months a year. He is assisting with surgical curriculum development at the Schools of Medicine of the Universities of Botswana and Namibia. His team, including Dr. Gerstle and Engineer Brian Carrillo, has developed the only validated Pediatric Laparoscopic Surgery simulator. He was an invited faculty and speaker regarding pediatric MAS at the IRCAD centre in Strasbourg, France.

Dr. Priscilla Chiu is the co-PI in the CIHR-NSERC Collaborative Health Research Projects grant funding innovative research that bridges both physical and health sciences disciplines. She will partner with the pharmaceutical giant GlaxoSmithKline along with co-investigators from Dalhousie University to screen new kinase inhibitors in the treatment of human leukemia using novel animal models. Dr. Chiu is also part of the Steering Committee for the Garron Family Cancer Centre and the Leukemia Research Group - a city-wide effort to bring local leukemia researchers together for collaborations and idea exchange. In conjunction with the partners at the University Health Network, Dr. Chiu was part of an effort to establish the first city-wide multi-disciplinary clinic for esophageal atresia patients that will formally evaluate and treat patients from birth to adulthood. Dr. Chiu also led the effort to establish the first international registry to track the long-term outcomes for congenital diaphragmatic hernia patients with the registry to start in 2013.

Dr. Annie Fecteau concluded her term as interim Division Head with the arrival of Dr. A. Pierro in April. She completed the Rotman-SickKids Leadership Program and continues to be active in the GI Transplant program. She senior authored a recent article in CMAJ on the health risk of rare earth magnets in toys which was instrumental in getting them banned in Canada.

Dr. J. Ted Gerstle was named the Director of the Surgical Oncology Program at Sickkids in June 2013. In this role he will be creating a portfolio that will have clinical, educational and research components. He is involved in a number of important initiatives with SickKids International and the Global Child Health Centre including the development of training programs to build perioperative capacity and surgical expertise in Ethiopia, and the development of perioperative services at a new children’s hospital in Qatar. Dr. Gerstle will be the co-lead for the Department of Surgery in the Toronto Addis Ababa Academic Collaboration.

Dr. Sharifa Himidan continues in her role as Medical Director of the Centre for Image Guided Innovation and Therapeutice Intervention. She is also working on establishing programs that bridge relationships between academic and community centres affiliated with the University of Toronto. She is actively involved in Surgical Innovation and collaborating with many national and international centres in the field of Surgical Robotics, Smart tools and simulation. Dr. Himidan is a member of the Canadian Pediatric Surgery Network (CAPSNet) Steering Committee and RCPSC Specialty Exam Board in pediatric surgery. Dr. Himidan became Director of General Pediatric Surgery at North York General in June 2013. Recently, she has been awarded a North York General exploration fund grant.

Dr. Jack Langer continues to be the President of the Canadian Association of Paediatric Surgeons (CAPS) and hosted the biennial Winter CAPS meeting in Toronto in February 2013. He was the Jessie L. Ternberg Visiting Professor at Washington University in St. Louis. Dr. Langer published 14 papers and 3 book chapters, and gave 12 invited lectures.
Dr. Paul Wales continues in his role as Director of The Group for Improvement of Intestinal Function and Treatment (GIFT), the only formalized program for intestinal failure in Canada. This year the GIFT program celebrated its 6th Annual Fundraiser. Dr. Wales won five awards this past year with the latest being the Best Published Clinical Research Article in May 2013. He presented four international special lectures and 10 national and local lectures and published 16 peer-review articles and one book chapter. Dr. Wales has been an invited speaker to 12 national and international presentations this past year.

DIVISION OF NEUROSURGERY

In the past five years the division has managed to be the recipient of a total of $45,000,000 in research funding ($4,500,000 this past year alone), has been invited to 163 venues to share knowledge and expertise, have had 410 papers accepted for publications to various journals including Nature, Neurosurgery, Epilepsia, etc.; all this while mentoring and teaching 67 students (six this past year), 24 fellows (five this academic year) and 59 residents (nine this current year).

Dr. James Drake was re-appointed as Division Head for a third five-year term after a review of the division which was described as “arguably the best pediatric Neurosurgery Division in the world”. He continues as Director, Image Guided Innovation and Therapeutic Intervention and mentor to members of The Canadian Pediatric Neurosurgery Study Group. Drs. Drake and Kulkarni have continued their involvement with research and quality improvement initiatives lead by the Hydrocephalus Clinical Research Network and are in the process of reviewing the care and treatment of hundreds of children affected by hydrocephalus.

Dr. Drake was invited as a speaker to the USA and Taiwan. He oversees multiple projects including; the development of miniaturized robotic tools, physical and virtual reality simulations, and novel applications of MR-guided focused ultrasound. He supervises a large cadre of undergraduate engineers from the University of Waterloo, and Toronto, and graduate students in the IBBME and Mechanical Engineering Department. In September 2012, he reviewed the British Columbia Children’s Hospital Pediatric Neurosurgery Program.

Dr. Rutka, Department of Surgery Chair, was the recipient of numerous awards including the 2012 Abhijit Guha Award, The Society of Neuro-Oncology. He has also been appointed Fellow of the American Surgical Association, 2013. In addition, Dr. Rutka continues to take on new responsibilities including Scientific Program Chair - Pediatric Neuro-Oncology Basic and Transitional Research Conference, and President of the World Academy of Neurological Surgery. Continuing a full clinical workload, and supervising a large basic science laboratory, he was an invited speaker to many academic meetings in the USA, Australia and Japan. Topics included AVM, Glioblastoma, Epilepsy and Translational Research. He has also been a noted in the media with a feature article in AANS Neurosurgeon (August 2012, Vol. 21, No. 3), published by the American Association of Neurological Surgeons. The interview reflecting on his training and career-to-date can be accessed online at: http://www.aansneurosurgeon.org/210312/7/1825.

Dr. Peter Dirks continues his leading basic research into brain tumour initiating cells, supervising a large basic science laboratory. He was invited to Japan, the USA, the UK, Spain and Chile. Topics include Moya Moya Disease, AVM’s and Tumors, more specifically stem cell research and therapies.

Dr. Abhaya Kulkarni continues his work as Neurosurgery Residency Program Director and again managed to attract the top pool of candidates to the University of Toronto program which will be celebrated with a meet and greet in early July. Dr. Abhaya Kulkarni was invited to be a Steering Committee member for the United Kingdom Medical Research Council. The BASICS Trial is a national $4,000,000 multicentre, randomized trial in the UK funded by the Medical Research Council. He was also appointed to the Editorial Board of Journal of Neurosurgery: Pediatrics. He, too, has been invited to various venues around the world to share his knowledge and speak on various topics. Topics included ETV and Quality of Life and outcomes in Hydrocephalic Patients.

Dr. Michael Taylor was promoted to Professor, Department of Surgery, University of Toronto. He was the selected recipient of a Garron Family Cancer Centre Chair and is on the Executive Council, Garron Family Cancer Centre. He is an Associate Section Editor (Pediatrics) for Brain Tumor Pathology. Dr. Taylor was an invited speaker in the USA, Canada, Germany, Italy and Australia.

The 2013 Bruce E. Hendrick Lectureship took place at the Hospital for Sick Children on May 31, 2013, with Dr. P. David Adelson, Director, Barrow Neurological Institute as the Guest Lecturer. Dr. Adelson delivered a highly engaging lecture entitled “Adding insult to injury: Improving Outcomes through Aggressive Management”, followed by a presentation on “Epilepsy surgery in children” for residents. He also served as an evaluator for resident case presentations given later that morning.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. Benjamin Alman was awarded the Award for Excellence in Innovation by the Association for Surgical Education in Los Angeles, California for exemplary performance in surgical education with intent to recognize novel ideas and/or methods for improving teaching and learning. He continued as the Interim Director of the Toronto Musculoskeletal Centre of the University of Toronto.

Dr. Wright was appointed the Vice President, Medical, at the Hospital for Sick Children. He received the Peter Armstrong, MD Shriner’s Hospital for Children Award for his manuscript “Antimicrobial Prophylaxis and Rates of Surgical Site Infection in Children”.

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Dr. Simon Kelley was awarded the Orthopaedic Chair’s Teaching Award from Division of Orthopaedic Surgery, Department of Surgery, University of Toronto.

Dr. Stephen Lewis is now the Chair of the Task Force for Minimally Invasive Deformity Spine Surgery in Milwaukee, Wisconsin, USA. Dr. Lewis also sits as an Associate Editor on the Editorial Boards of the Spine Deformity Journal, Scoliosis Research Society, and Abstract Review Committee, Milwaukee, Wisconsin, USA.

Dr. Reinhard Zeller sits as an Associate Editor on the Editorial Board of the Spine Deformity Journal, Scoliosis Research Society.

Dr. Andrew Howard was appointed interim Division Head of Orthopaedic Surgery at the Hospital for Sick Children.

The division hosted Dr. Daniel Sucato, Orthopaedic Surgeon, Chief of Staff, Texas Scottish Rite Hospital for Children, as the Robert B. Salter Visiting Professor and Dr. Martin Gargan, Orthopaedic Surgeon, University Hospitals, Bristol, UK, as the Mercer Rang Visiting Professor.

The division continues to build the Bone Health Centre focusing on the care of children with musculoskeletal conditions requiring multidisciplinary care, and in the development of collaborative research.

The division boasts four faculty members who hold CIHR funding as primary investigators, making them the highest proportion of CIHR-funded orthopaedic surgeons in any one division in the country.

**DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY**

The division was saddened by the passing of Dr. Hugh G. Thomson, MD, MSc, FRCSC (January 3, 1930 - November 18, 2012). As has been acknowledged, Dr. “T” was a huge influence on the division, having been a staff member at the Hospital for Sick Children for 43 years (1960-2003) and a mentor/teacher to all but one of its current staff.

Dr. Greg Borschel was promoted to Associate Professor in the Department of Surgery, University of Toronto.

Dr. Christopher Forrest underwent a 10-year review of his leadership of the division in November 2012 and was successfully re-appointed for a third 5-year term. Dr. Richard Hopper (University of Washington, Seattle) was the external reviewer and described the division as having an “unparalleled international reputation”.

The Annual University of Toronto Transplant Day was held on December 17, 2012 with division members Drs. Ron Zuker and Greg Borschel taking front and center stage by organizing a half-day symposium on Composite Vascularized Allotransplantation (CVA). This was a spectacular event with the highlight being a lecture by Visiting Guest Speaker, Dr. Bohdan Pomahac, from Boston. This day coincided with the Ministry of Health’s successful approval of a Pediatric Vascularized Composite Allotransplantation Program that has been generated through the huge efforts of Drs. Zuker and Borschel.

The 9th Annual Lindsay Thomson Day was held on April 5, 2013 at the University Club and Dr. John B. Mulliken, Professor of Surgery, Harvard Medical School was the 2013 Vale Lecturer.

Dr. Joel Fish and members of the Burn Team had the enviable job of performing a site assessment and review of the Pediatric Burn Program for the state of Hawaii in February 2013, requested by Dr. David Cho, former Pediatric Plastic Surgery fellow who runs the program. This was a very successful visit and an opportunity to assist and influence burn care outside of SickKids and to create important linkages with other Pediatric Burn Programs.

**DIVISION OF UROLOGY**

Dr. Martin Koyle succeeded Dr. Pippe Salle as Division Head on April 1, 2013 and was awarded the Women’s Auxiliary Chair of Urology and Regenerative Medicine.

He led a volunteer educational and surgical mission to Kampala, Uganda in cooperation with International Volunteers in Urology and members of the Pediatric Surgery and Anesthesia Divisions at Vancouver Children’s Hospital. Along with Dr. Salle, he was co-organizer of the well-attended meeting on transitional care entitled “Moving Beyond Pediatric Incontinence” in June 2013. All of the division members, as well as many other colleagues from SickKids, participated actively in the event. This past year, Springer published Dr. Koyle’s latest textbook, “Surgical Guide to Circumcision”.

Dr. Darius Bägli was the recipient of a major five-year grant (2013-2018) from CIHR totaling over $820,000 for his basic research project entitled, Epigenetic Regulation of Bladder Response to Obstruction. In 2012, Dr. Bägli was honoured by the American Urological Association Foundation who named him their ‘Distinguished Mentor’ for his longstanding achievements and contributions to research and education in Urology; a first for pediatric urology and a first for a urologist in Canada. Dr. Bägli was also recognized for outstanding contributions to innovation, and cross-team leadership as the Associate Surgeon-In-Chief by being named to the ‘President’s Circle’ of The Hospital for Sick Children. Dr. Bägli has spearheaded a very successful initiative using iPads for wireless point-of-care billing, to achieve record billing compliance of over 99%. The system is soon to be adopted by Perioperative Services. Following his introduction of the Surgical Safety Checklist to SickKids Hospital, Dr. Bägli continues major efforts in health technology development to re-engineer the surgical pathway for patients and families at SickKids.

Dr. Pippi Salle was extremely prolific as visiting professor. In addition to co-organizing the “Moving Beyond Pediatric Incontinence” meeting with Dr. M. Koyle, he was instrumental in organizing a major worldwide congress on extrophy that was held in Morocco in May 2013. Both he and Dr. Warren Snodrass were involved in a live surgery webinar on hypospadias in February 2013 and were both invited to direct a postgraduate course on that subject at the Annual American Urological Association meeting in May 2013.
Dr. Walid Farhat successfully ran his 6th Annual Pediatric Urology Laparoscopy course for all pediatric urology fellows across North America. Dr. Farhat, with Dr. M. Koyle, received the Award for Teaching Excellence for the Paediatric Resident Lecture Series, University of Toronto. He was instrumental in developing a multidisciplinary clinic with the Nephrology Division for children with stone disease. He was the invited editor of Urologic Clinics of North America on a volume devoted to pediatric urology.

Dr. Armando Lorenzo has been extremely active internationally in the Children’s Oncology Group and Society for Fetal Urology. He also acts as the division representative in the selection of residents for the University of Toronto, Division of Urology and leads the medical student Urology elective program at SickKids. Dr. Lorenzo continues to develop collegial relationships with colleagues at Mt. Sinai in the field of andrology.

The Fellowship Program continues to be extremely competitive. The division attracted its top choices for both the American Board of Urology accredited spot and the international spot. As in past years, the division hosted numerous observers from around the world. The division, as whole, represented SickKids proudly in multiple venues in Africa, the Middle East, South America, Europe, Asia, and of course North America.

EDUCATION:

The Department of Surgery continues to have an active education program training 43 clinical fellows and 94 residents originating from 19 countries worldwide.

RESEARCH:

Of 38 surgeons, 25 have funded research programs. The department is engaged in a wide variety of clinical and basic research supervising 29 research fellows, 24 Masters and 14 PhD students.

## Division of Cardiac Surgery

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<tr>
<th>Name</th>
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<tr>
<td>Dr. C.A. Caldarone</td>
<td>Professor</td>
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<tr>
<td>Dr. J. Coles</td>
<td>Professor</td>
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<tr>
<td>Dr. E. Hickey</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. O. Honjo</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. G.S. Van Arsdell</td>
<td>Professor (Division Head)</td>
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### Publications


Invited Visits


Caldarone CA: LeDucq, Baltimore, Maryland, United States, 11 November 2012. Invited Speaker: Toronto Perspective on Mechanistic Interrogation of Bicuspid Aortic Valve and Associated Aortopathies.

Caldarone CA: The Johns Hopkins University, Baltimore, Maryland, United States, 6 December 2012. Invited Speaker: New Treatments for Pulmonary Venous Stenosis and TAPVC.


Caldarone CA: American Association for Thoracic Surgery, Minneapolis, Minnesota, United States, 4 May 2013. Invited Speaker: Cardioplegia - What Type and How Much?

Caldarone CA: Cardiac Surgery Biology Club, Minneapolis, Minnesota, United States, 4 May 2013. Invited Speaker: Pulmonary Vein Stenosis in Congenital Heart Surgery.


Honjo O: European Association for Cardio-Thoracic Surgery, Barcelona, Spain, 30 October 2012. Invited Speaker: Anatomic factors determining surgical decision making in patients with transposition of the great arteries with ventricular septal defect and left ventricular outflow tract obstruction.


Honjo O: Canadian Cardiac Transplantation Network Educational Meeting, Alberta, Canada, March 2013. Invited Lecturer: Ventricular assist device options for failing Fontans and univentricular hearts.

Van Arsdell GS: China Heart Congress, Beijing, China, 10 August 2012. Invited Lecturer: 1/ Trend of Therapeutic Patient of Congenital Heart Disease: From Western to China. 2/ The Valvuloplasty in the Single Ventricle Anomaly.

Van Arsdell GS: Societa Italiana Di Cardiologia Pediatrica, Jesi, Unknown, Italy, 12-13 October 2012. Invited Lecturer: 1/ To Err is Human, To Be a Surgeon is to Err. 2/ Congenital Mitral Stenosis: Long-term Surgical Results.


Research and Investigations


Division of General Surgery

Dr. G.R. Azzie  Associate Professor
Dr. P.P.L. Chiu  Assistant Professor
Dr. A. Fecteau  Associate Professor
Dr. J.T. Gerstle  Associate Professor
Dr. D. Grant  Professor
Dr. S. Himidan  Assistant Professor
Dr. J.C. Langer  Professor
Dr. A. Pierro  Professor (Division Head)
Dr. P. Wales  Associate Professor

Publications


Hua Z, Turner JM, Mager DR, Sigalet DL, Wizzard PR, Nation PN, Ball RO, Pencharz PB, Wales PW. The Effects of Polymeric Formula Versus Elemental Formula in Neonatal Piglets with


Romão RLP, Nasr A, Chiu P, Langer JC. What is the best prosthetic material for patch repair of congenital diaphragmatic hernia? Comparison and meta-analysis of porcine small intestinal submucosa


Invited Visits

Azzie GR: Canadian Association of Paediatric Surgeons (CAPS), Victoria, British Columbia, Canada, 20 September 2012. Presenter: 1/ Paediatric Trauma During the 2012 FIFA World Cup in South Africa: The Cape Town Experience. 2/ Further validation of the Pediatric Laparoscopic Surgery (PLS) simulation. 3/ Bilateral Pelvic Osteotomies for the Treatment of Constipation.


Fecteau A: Global News Canada, Toronto, Ontario, Canada, 11 March 2013. Distinguished Speaker: Magnet Ingestions by Young Children A Story about Rare Earth Magnets and Hidden Dangers they Pose to Children who Swallow them and then Require Emergency Surgical Intervention.


Grant D: Children’s Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania, United States, 7 September 2012. Invited Speaker: 7th International Pediatric Intestinal Failure and Rehabilitation Symposium Assessing Risk and Benefit in Intestinal Failure and Transplant - Long Term Outcomes in Intestinal Transplant.


Langer JC: Esophageal atresia: From the fetus to the adult, Montreal, Quebec, Canada, 8 October 2012. Panel Moderator: Thoracoscopy or thoracotomy.


Pierro A: 2nd International Conference: Esophageal replacement: indications and options (and how to avoid?), Montreal, Canada, 8 October 2012. Esophageal atresia from the fetus to the adult.


Wales P: Alberta Children’s Hospital, University of Calgary, Calgary, Alberta, Canada, 24 May 2013.
Distinguished Speaker: Quality of Evident and Perspectives On Use of Alternative Lipid Emulsions.

Research and Investigations


fgl2/FGL2 and heart transplantation. Grant D, Levy HR. Ontario Heart and Stroke Foundation ($188,000 2011 - 2013).


Division of Neurosurgery

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


Rutka JT. Synaptic transmission - Asclepius and the healing power of the spa. Jo Lee Magazine. pp 64. 2012. [Magazine Article]


Invited Visits


Dennis M: Schneider Children's Medical Center of Israel, Tel Aviv, Israel, October 2012. Lecturer: How do children with traumatic brain injury think about their social world? Feinberg Address.


Dennis M: International Behavioural Neurology Rounds, Toronto, Ontario, Canada, 13 February 2013. Lecturer: Neurobiology of social thinking after childhood traumatic brain injury. This will be telecast to various international sites: Abarnbanel Mental Health Center (Bat Yam); Herzog Hospital (Jerusalem); The Technion - Israel Institute of Technology (Haifa); Al Quds University (Abu Deis, West Bank); Jordan University of Science and Technology (JUST); University of Pennsylvania (United States); St. Petersburg State Medical University (Russia). (13 February 2013).


Dirks PB: FEN Forum- Developmental Tumors of the Nervous System, Barcelona, Spain, 13 July 2012. Invited Lecturer: Cancer Stem Cells and Brain Tumorigenesis.

Dirks PB: Neurosurgical Society of Chile, Santiago, Chile, 26 October 2012. Invited Lecturer: 1/ Stem Cells in Pediatric Brain Tumors. 2/ Treatment protocols for medulloblastoma and ependymoma. 3/ Approach for pineal region tumors. 4/ Moya Moya Disease.

Dirks PB: NCRJ, Liverpool, United Kingdom, 6 November 2012. Invited Lecturer: Cancer stem cells from human brain tumours.


Dirks PB: Canadian Neurological Sciences Foundation, Montreal, Quebec, Canada, 13 June 2013. Invited Lecturer: Dissecting brain tumor hetero-geneity.

Dirks PB: McGill University, Montreal, Quebec, Canada, 13 June 2013. Invited Lecturer: The rise of the cancer stem cell concept and the vascular stem cell niche in brain tumours MISAM.


Drake JM: University of Taiwan, National Medical Centre, Division of Neurosurgery, Taiwan, Province Of China, 2 November 2012. Invited Lecturer: 1/ The Centre of Image Guided Innovation and Therapeutic Intervention. 2/ Management of Complex non-traumatic Spinal Deformity in Children.


Drake JM: AANS Pediatric Section, St. Louis, Missouri, United States, 30 November 2012. Invited Lecturer: Update - the 2013 Pediatric Section Meeting, Toronto, Canada.

Kulkarni AV: University of Utah, Salt Lake City, Utah, United States, 16 April 2013. Visiting Professor: The evolving role of endoscopy in the treatment of hydrocephalus.


Rutka JT: Controversies in Neurosurgery Meeting, Melbourne, Victoria, Australia, 22-23 November 2012. Invited Speaker: 1/ My greatest disaster. 2/ Epilepsy surgery for children - can anyone do it and what is an acceptable outcome. 3/ Translational research, fact or fiction.


Rutka JT: Stuart Rowe Visiting Professor Lecture, Pittsburgh, Pennsylvania, United States, 12 December 2012. Visiting Professor: 1/ Glioblastoma invasion: Advances from the leading edge. 2/ Translational Research: Fact or fiction. Stuart Rowe Visiting Professor Lecturer.


Rutka JT: CRP Sante, Neuro-Oncology Workshop, Luxembourg, 7 March 2013. Invited Speaker: From stem cells to translational therapeutics: An overview of research within the Labatt Brain Tumor Research Centre, The University of Toronto.

Rutka JT: West Virginia University Hospital, Morgantown, West Virginia, United States, 3 April 2013. Invited Speaker: Pediatric Brain Tumours: Focus on Surgical Approaches and Outcomes.


Rutka JT: 64th Annual Meeting of Scandinavian Neurosurgical Society, Reykjavik, Iceland, 6 June 2013. Invited Speaker: 1/ Medical Leadership. 2/ Pediatric Gliomas.

Taylor MD: CIHR Late Effects of Childhood Cancer Treatments Network Meeting, Toronto, Ontario, Canada, 5 September 2012. Invited Lecturer: Deciphering the Clonal Relationship Between Primary and Metastatic Medulloblastoma.

Taylor MD: Congress of Neurological Surgeons, Chicago, Illinois, United States, 9 October 2012. Invited Lecturer: One of these things is not like the other: inter and intratumor heterogeneity as barriers to effective therapy in medulloblastoma.

Taylor MD: Children's National Medical Center, Washington, District of Columbia, United States, 16 October 2012. Visiting Professor: One of these things is not like the others: The Sesame Street Approach to Pediatric Brain Tumor Classification.

Taylor MD: Massachusetts General Hospital, Harvard University, Boston, Massachusetts, United States, 25 October 2012. Visiting Professor: Inter and Intratumoral Heterogeneity Through Space and Time in the Childhood Brain Tumor Medulloblastoma. Oncology Grand Rounds.

Taylor MD: Review and Update in Neuroscience for Neurosurgeons (RUNN), Woods Hole, Massachusetts, United States, 31 October 2012. Invited Lecturer: Clinical Implications of Pediatric Brain Tumor Molecular Genetics.


Taylor MD: 41st Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, St. Louis, Missouri, United States, 29 November 2012. Invited Lecturer: Medulloblastoma Heterogeneity Across Space and Time Drive Disparities in Clinical Behavior.

Taylor MD: 5th Annual Meeting of the NGFN-Plus and NGFN Transfer in the Program of Medical Genome Research, Heidelberg, Germany, 11 December 2012. Invited Lecturer: Clinical Implications of
Medulloblastoma Genomics.

Taylor MD: Medulloblastoma Down Under, Perth, Western Australia, Australia, 13 February 2013. Invited Lecturer: 1/ Membrane Depolarization, Per Se, is a Medulloblastoma Tumor Suppressor. 2/ Clinically Important Medulloblastoma Genomics.


Taylor MD: St. Jude Children’s Research Hospital, Memphis, Tennessee, United States, 2 April 2013. Invited Lecturer: Heterogeneity through space and time drives the clinical behavior of medulloblastoma Comprehensive Cancer Center Visiting Professor Series.

Taylor MD: Health Sciences Center, Winnipeg, Manitoba, Canada, 6 May 2013. Invited Lecturer: Molecular Heterogeneity Through Space and Time Accounts for the Clinical Behavior of Childhood Brain Tumors Edge of Science and Medicine Seminar Series.

Taylor MD: Cancer Care Manitoba, Winnipeg, Manitoba, Canada, 7 May 2013. Invited Lecturer: Heterogeneity through Space and Time Drives the Clinical Behavior of Medulloblastoma Cancer Care Manitoba Annual Research Day.

Taylor MD: Terry Fox Research Institute, Ottawa, Ontario, Canada, 9 May 2013. Invited Lecturer: Medulloblastomics: Too much is not enough Terry Fox Research Institute 4th Annual Scientific Meeting.


Research and Investigations


Anastomosis Tool Kit. Looi T, Drake JM: MaRS Innovation. ($85,000 2012 - 2014).


Clinician Scientist Phase II Award (Renewal). Taylor M: Canadian Institutes of Health Research (CIHR). ($150,000 2010 - 2013).


Identification of novel small-molecules to target the most aggressive subgroup of medulloblastoma. Taylor MD: The Garron Family Cancer Centre. ($50,000 2012 - 2013).

Medulloblastoma Metastases Arise From the Cancer Stem Cell Compartment. Taylor MD: Ontario Institute of Cancer Research Cancer Stem Cell Program. ($582,640 2012 - 2016).


OICR Genesis Project (Cancer Stem Cells). Dick J, Dirks, PB: OICR. ($750,000 2008 - 2013).


Temperature measurement in cortical bone and bone marrow during magnetic resonance guided focused ultrasound thermotherapy in a porcine model. Drake J, Waspe A: Garron Family Cancer Centre, SickKids. ($50,000 2012 - 2013).

Temperature measurement in cortical bone and bone marrow during magnetic resonance guided focused ultrasound thermotherapy in a porcine model. Drake J, Waspe A. Canadian Institutes of Health Research (CIHR). ($450,000 2012).


Translational targeting of Group D medulloblastoma. Rutka JT, Taylor MD: Pediatric Brain Tumor Foundation. ($1,000,000 2011 - 2014).


Honours Received

Rutka JT: Fellow, American Surgical Association. The American Surgical Association is the nation's oldest and most prestigious surgical organization. Its members include the nation's most prominent surgeons from the country’s leading academic medical institutions, many of whom are Chairs of the Departments of Surgery at these institutions. Membership also includes leading surgeons from around the world. 2013.

Rutka JT: Abhijit Guha Award, Society for Neuro-Oncology and the Section on Tumors of the AANS/ CNS, Washington, District of Columbia, United States. The award honors an accomplished investigator who has achieved superlative results both in the laboratory and the clinic. The award seeks to recognize an individual who has played an active role in the mentorship of the next generation of neuro-oncology professionals. November 16, 2012.
Division of Orthopaedics

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

Publications


Borkhoff CM, Hawker GA, Kreder HJ, Glazier RH, Mahomed NN, Wright JG. The influence of patients’ gender on physicians' interpersonal behaviour regarding total knee arthroplasty: what if your physician doesn’t ask you to dance? Arthritis Care and Research. 18 Jan 2013 | DOI: 10.1002/acr.21970.


Zabjek KF, Zeller R. Emerging technology and analytical techniques for the clinical assessment of scoliosis. Recent Advances in Scoliosis, Dr. Theodoros Grivas (Ed).

**Invited Visits**

**Alman BA:** Gordon Research Conference on Musculoskeletal Biology and Bioengineering, Andover, New Hampshire, United States, 6 August 2012. Invited Speaker: Molecular Regulation of Cartilage Growth.


**Alman BA:** International Pediatric Orthopaedic Think Tank Annual Meeting (IPOTT), Cannes, France, 20 September 2012. Invited Speaker: From Genotype to Phenotype: Where we are in Genetics “Tumors related genes in MHE and NF1”.

**Alman BA:** The Desmoid Tumor Research Foundation, Philadelphia, Pennsylvania, United States, 20 October 2012. Invited Speaker: Desmoid tumor research: Treatments based on understanding the cause.


**Alman BA:** Rolanette and Berdon Lawrence Bone Disease Program of Texas, Houston, Texas, United States, 22 February 2013. Invited Speaker: Hedging your bets: Hedgehog signalling in chondrocytes from development to disease.
Alman BA: Lady Davis Institute for Medical Research, Montréal, Quebec, Canada, 12 March 2013. Invited Lecturer: What’s Old is New: Targeting Beta-Catenin to Improve Healing.


Hopyan S: Grand Rounds, Department of Orthopaedics, University of Cincinnati, Cincinnati, Ohio, United States, 17 April 2013. Visiting Professor: 1/ Paediatric sarcoma surgery: planning longevity and embracing uncertainty. 2/ Skeletal pattern formation in the limb. 3/ Budding behaviours: myriad mechanisms manage mysteries of limb bud morphogenesis.


Kelley S: International Hip Dysplasia Institute, Mexico City, Mexico, Mexico, 31 August 2012. Invited Lecturer: 1/ Closed Reduction and Spica Casting for DDH. 2/ Open Reduction and Innominant Osteotomy. 3/ Strategies for Improving Operative Outcomes in the Childhood Management of DDH. 4/ The Long-Term Outcomes of Open Reduction and Innominant Osteotomy for DDH. The SickKids Surgical Technique 2 Day course on management of DDH for Orthopaedic Surgeons from Central and South America.

Kelley S: Alberta Children’s Hospital, Calgary, Alberta, Canada, October 2012. The Royal College Lecture - Townsend Visiting Professorship: 1/ Strategies to Improve Outcomes in the Operative Management of Childhood DDH. 2/ How to Lengthen the Congenitally Deficient Limb. 3/ Advanced Uses of The Taylor Spatial Frame.

Kelley S: International Pediatric Orthopaedic Symposium, Orlando, Florida, United States, December 2012. Invited Lecturer: 3D Fluoroscopy in Closed Reduction for DDH.

Kelley S: Gordon Research Conference, Les Diablerets, Vaud (fr), Switzerland, April 2013. Presenter: Fracture Repair in Mice Suggests that FGFR3 Regulates Differentiation Between Cartilage and Bone from Precursor Cells.


Lewis S: Fall Deformity Symposium, Stryker, Las Vegas, Nevada, United States, November 9, 2012. Chair: TLIF.


Research and Investigations


Long Term Follow-up of Instrumentation in Spina Bifida Scoliosis. Wright JG, Khoshbin A. CIHR ($17,500 2012 - 2013).


Simple Bone Cysts in Kids (SBoCK). Wright JG. CIHR ($968,080 2012 - 2013).


Using E-Health to Enhance Education and Coping Skills for Spine Patients and their Families. Wright JG. Canadian Institutes of Health Research (CIHR), ($10,000 2012 - 2013).

Honours Received

Kelley S: Orthopaedic Chair’s Teaching Award, Orthopaedic Surgery, Dept of Surgery, Faculty of Medicine, Division of Orthopaedic Surgery. Contributions to orthopaedic education as voted by the residents. Jul 2012 - Jun 2013.
Division of Plastic and Reconstructive Surgery

Dr. G.H. Borschel  Assistant Professor
Dr. H. Clarke  Professor
Dr. J.S. Fish  Associate Professor
Dr. D. Fisher  Associate Professor
Dr. C. Forrest  Professor (Division Head)
Dr. J. Phillips  Associate Professor
Dr. R. Zuker  Professor

Publications


Hynes S, Forrest CR and Borschel G. Use of the free anterolateral thigh flap for reconstruction of the pediatric anophthalmic orbit. 2013 Jun; 21(2):134.


McRae MC, Borschel GH. Transfer of triceps motor branches of the radial nerve to the axillary nerve with or without other nerve transfers provides antigravity shoulder abduction in pediatric brachial plexus injury. HAND. June 2012; 7(2): 186 - 190.


**Invited Visits**


**Borschel GH:** University of Texas Southwestern Medical Center, Dallas, Texas, United States, 7 August 2012. Visiting Professor: Advances in Nerve Regeneration.

**Borschel GH:** American College of Surgeons, Surgical Forum, Chicago, Illinois, United States, 4 October 2012. 1/ Presenter: Glial-derived neurotrophic factor (GDNF) delivered from microspheres enhances peripheral nerve regeneration after delayed nerve repair. 2/ Invited Speaker: Update to Board of the American College of Surgeons; C James Carrico Award; Glial-derived neurotrophic factor (GDNF) delivered from microspheres enhances peripheral nerve regeneration after delayed nerve repair.

**Borschel GH:** American Society for Peripheral Nerve (ASPN), Naples, Florida, United States, 13 January 2013. Course Instructor: 1/ Tissue Engineering and Regenerative Medicine. 2/ Nerve and Technology.

**Borschel GH:** Pediatric Hand Study Group Meeting, Sacramento, California, United States, 9 February 2013. Invited Speaker: Simultaneous adjacent web syndactyly release: safety and early results.

**Clarke H:** Exploring Shoulder Dystocia and Neonatal Brachial Plexus Injury, Johns Hopkins University, Baltimore, Maryland, United States, 9 September 2012. Invited Speaker: Neonatal Brachial Plexus Injuries (NBPI) - A primer for pediatric providers and obstetric providers.

**Clarke H:** XVIII Symposium for the Club A. Narakas on Brachial Plexus Surgery, Montreux, Switzerland, 23 May 2013. Presenter: Hand outcomes in operative management of complete obstetrical brachial plexus palsy.

**Fish JS:** McLeish Orlando - Law Firm, Toronto, Ontario, Canada, 20 February 2013. Invited Speaker: Burns Talk to employees regarding burns, treatments, outcomes etc.

**Fish JS:** American Burn Association (ABA), Palm Springs, California, United States, 24 -25 April 2013. Invited Lecturer: 1/ Advocating for Capital Equipment Postgraduate Course A: Partner to Affect Chagne in burn Centers Inside and Out. 2/ Partnering with the Community Postgraduate Course A: Partner to Affect Chagne in burn Centers Inside and Out. 3/ The Increasing Risk of Glass-Fronted Fireplace burns in Canada.


Fisher DM: 12th International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, Florida, United States, 7 May 2013. Presenter: Anatomic subunit approximation technique; technical highlights and long-term (>13 year follow-up) results in 10 consecutive patients.

Forrest C: Grand Rounds, Borwn Alpert Medical School, Division of Plastic Surgery, Providence, Rhode Island, United States, 6 February 2013. Invited Lecturer: The evolution of treatment for sagittal synostosis: An age based approach.

Forrest C: 67th Annual Meeting of the Canadian Society of Plastic Surgeons, Calgary, Alberta, Canada, 1 June 2013. Presenter: Age-based approach to sagittal synostosis: Application of extended strip craniectomy (ESC) and total vault reshaping (TCVR) techniques.


Zuker R: Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 15 May 2013. Visiting Professor: 1/ The Cleft Lip and Palate Program at The Hospital for Sick Children. 2/ Microsurgery in Children.

**Research and Investigations**


Comparison of Tests of Sensory Outcome After Nerve Injury in Children. Ho E, Clarke H. Ontario Society of Occupational Therapists, ($1000.00 CAD, Sep 2012 - Sep 2013).


Enhancing outcomes following nerve injury using combined electrical stimulation and nerve bridges to the chronically denervated stump. Borschel GH, Hendry M. RestraComp ($80,000 2012 - 2014).


Grant Support for Dr. Zuker’s Smile Fund. Zuker R. Visit Orlando. ($10,000 2012 - 2013).


**Honours Received**


Zuker R: Smile Award. Grant Support for Dr. Zuker’s Smile Fund. Oct 2012.

Zuker R: Faculty of Medicine’s 2012 Research Award, University of Toronto, Toronto, Ontario, Canada. 2012.
Divison of Urology

Dr. D.J. Bagli  Professor
Dr. W.A. Farhat  Associate Professor
Dr. M.A. Koyle  Professor
Dr. A.J. Lorenzo  Assistant Professor
Dr. J.L. Pippi-Salle  Professor (Division Head)

Publications


Invited Visits

Bägli DJ: External Scientific Review Board, Boston Children’s Hospital, Boston, Massachusetts, United States, 8 October 2012. Chair.

Farhat WA: Hamad Medical Corporation, Doha, Qatar, 9 December 2012. Invited Speaker: 1/ Laparoscopy in Pediatric Urology: How to Acquire and Retain Skills. 2/ Pyeloplasties.


Farhat WA: Canadian Urological Association, Toronto, Ontario, Canada, 20 June 2013. Presenter: Robotics are the future of MIS in Canada. Canada just can’t afford it.

Farhat WA: Canadian Urological Association, Niagara Falls, Ontario, Canada, 21-28 June 2013. 1/ Speaker: Video Based Discussion. 2/ Presenter: Single port surgery where are we now?


Lorenzo AJ: University of British Columbia, Vancouver, British Columbia, Canada, 5-6 February 2013. Visiting Professor: 1/ Application of adult urology principles to pediatric urology. 2/ “Review of pediatric urology cases: Tips to help you provide better care and pass your Royal College Exam” Academic session with residents.


Lorenzo AJ: Caja del Seguro Social, Panama City, Panamá, Panama, 20 June 2013. Instructor: Endoscopic Administration of Botulinum Toxin in Children.


Pippi Salle JL: Nationwide Children’s Hospital, Columbus, Ohio, United States, 23 October 2012. Visiting Professor: Management of Hypospadias: Lessons Learned.

Pippi Salle JL: European Society of Pediatric Surgeons, San Diego, United States, 2013. Invited Speaker: Early vs. late feminizing genitoplasty (favoring early).

Pippi Salle JL: Sina Children’s Hospital, Kuwait City, Kuwait, 10 January 2013. Presenter: Ambiguous Genitalia.


Pippi Salle JL: Dallas Children’s Hospital, Dallas, Texas, United States, 22 February 2013. Invited Speaker: 1/ Live Course on Hypospadias. 2/ Management of hypospadias: lessons learned.


Research and Investigations


Honours Received

Mount Sinai Hospital
Jay S. Wunder, Surgeon-in-Chief, Rubinoff-Gross Chair in Orthopaedic Oncology

HEADS OF DIVISION

Dr. C. Swallow General Surgery
Dr. J.S. Wunder Orthopaedic Surgery
Dr. K. Jarvi Urology

DIVISION OF GENERAL SURGERY

The Division has been very productive this past year, having published over 38 articles, along with numerous international lectures that were given. Research funding has come from the American Society of Colon and Rectal Surgeons, Canadian Institutes of Health Research, Public Health Agency of Canada, Canadian Radiation Oncology Foundation/Sanoﬁ-aventis, Canadian Institute for Photonic Innovations, Canadian Cancer Society Research Institute Innovation Grants, Cancer Care Ontario, Cancer Imaging Network of Ontario, and Ontario Institute of Cancer Research.

DIVISION OF ORTHOPAEDICS

Thirty-nine articles were accepted and published in journals. Research funding was received from Canadian Institutes of Health Research, Canadian Arthritis Network, Canadian Orthopaedic Foundation, and Stryker Canada.

DIVISION OF UROLOGY

Twenty-five papers were published for the year 2012-2013. Research funding was awarded from National Institutes of Health, Ontario Institute for Cancer Research, McLaughlin Centre, University of Toronto, Canadian Cancer Society, Foundation of Canada/Prostate Cancer Canada, Canadian Cancer Society Research Institute.

Division of General Surgery

Dr. Z. Cohen Professor
Dr. A.M. Esson Assistant Professor
Dr. R. Gladdy Assistant Professor
Dr. A. Govindarajan Assistant Professor
Dr. R.N. Gryfe Assistant Professor

Dr. E.D. Kennedy Assistant Professor
Dr. H. MacRae Associate Professor
Dr. A. McCart Associate Professor
Dr. R.S. McLeod Professor
Dr. C.J. Swallow Professor (Division Head)

Publications


Roberts P, Coburn NG, Swallow CJ. Gastric Cancer. In: University of Toronto Surgical Oncology Manual (Cukier M et al. eds). Type & Graphics Inc. 2012


**Invited Visits**


Easson AM: Toronto Cancer Conference 2012, Toronto, Ontario, Canada, 23 November 2012. Invited Speaker: Difficult Conversations Made Easy 2 1/2 hour talks: talking to patients about mistakes, talking to your colleagues


Kennedy ED: Canadian Association of General Surgeons, Calgary, Alberta, Canada, 13 September 2012. Speaker: Are physicians willing to accept a decrease in treatment effectiveness for improved functional outcomes for low rectal cancer?


Kennedy ED: Toronto, Ontario, Canada, 27 June 2013. 1/ Webinar Organizer and Presenter: Radiology Webinar II: Tips and Tricks for Interpreting MRI Following Neoadjuvant Therapy for Rectal Cancer An educational internet-based webinar on tips and tricks of interpretation of MRI following neoadjuvant therapy for rectal cancer led by Dr. Gina Brown. 2/ Meeting Organizer, Presenter and Facilitator: Use of MRI to select rectal cancer patients for pre-operative chemoradiation To provide a multidisciplinary platform to discuss: The role of MRI in the management of complete clinical response following pre-operative chemoradiotherapy for rectal cancer and the current treatment alternatives and controversies for management of complete clinical response following pre-operative chemoradiotherapy for rectal cancer.

http://www.vvctv.ca/rectalcancer/20130627
Research and Investigations


Honours Received


Division of Orthopaedics

<table>
<thead>
<tr>
<th>Dr. D. Backstein</th>
<th>Associate Professor (Division Head)</th>
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<tr>
<td>Dr. R.S. Bell</td>
<td>Professor</td>
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<tr>
<td>Dr. P.C. Ferguson</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A.E. Gross</td>
<td>Professor</td>
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<tr>
<td>Dr. P. Kuzyk</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. O. Safir</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. J.S. Theodoropoulos</td>
<td>Lecturer</td>
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<tr>
<td>Dr. T. Willett</td>
<td>Lecturer</td>
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<tr>
<td>Dr. J.S. Wunder</td>
<td>Professor</td>
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Publications


Greidanus NV, Chihab S, Garbuz DS, Masri BA, Tanzer M, Gross AE, Duncan CP. Outcomes of minimally invasive anterolateral THA are not superior to those of minimally invasive direct lateral and posterolateral THA. Clinical Orthopaedics and Related Research. 2013 Feb; 471(2): 463-7.


Invited Visits


Ferguson P: NOSM Anaesthesia Retreat, Sudbury, Ontario, Canada, 3 November 2012. Invited Lecturer: Lessons learned from a 3 year experience with a competency based orthopaedic training program.


Gross A: La Sociedad Antioquena de Ortopedia y Traumatologia, Medellin, Antioquia, Colombia, 4 October 2012. Invited Lecturer: 1/ VII International Course - Hip and Knee Zimmer ZMR hip system design rationale. 2/ The difficult primary hip. 3/ The present status of allograft in lower extremity reconstruction. 4/ THR for dysplasia. 5/ Video techniques revision arthroplasty of the acetabulum.


Gross A: Zimmer Institute & Zimmer of Canada, Montreal, Quebec, Canada, 3 May 2013. Presenter: 1/ 3rd Annual Hip & Knee MasterClass Severe Bone Loss and Discontinuity. 2/ Management of B3 Fractures. 3/ Modular Femoral Components: Indications & Results. 4/ Cases.


Safir O: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 22 June 2013. Speaker: Recurrence of Infection after Two Stage Revision for Infected Hip and Knee Arthroplasty.
Research and Investigations


Implications of pathologic changes to bone material properties on the skeletal stability of the metastatic spine. Whyne C, Yee A, Willett T. Canadian Institutes of Health Research (CIHR). ($100,000 2012 - 2013).

Honours Received

Ferguson P: Innovation in Surgical Education Award, Association for Surgical Education. Co-Recipient, First award given for a unique and innovative contribution to surgical education for the “Orthopaedic Boot Camp”. Jul 2012 - Jun 2013

Gross A: Queen Elizabeth II Diamond Jubilee Medal, Dept of Surgery, Faculty of Medicine, Government of Ontario. January 2013

Safir O: Association of Surgical Education Teaching Award 2013, Dept of Surgery, Faculty of Medicine, Association of Surgical Education. City of Toronto Orthopaedic Boot Camp Project. Jul 2012 - Jun 2013

Safir O: 2013 Award for Excellence in Innovation, Association for Surgical Education. Toronto Orthopaedic Boot Camp. April 2013
Division of Plastic and Reconstructive Surgery

Dr. N. McKee  Professor

Publications


Division of Urology

Dr. K. Jarvi  Professor (Division Head)
Dr. K.C-L. Lo  Associate Professor
Dr. A. Zlotta  Professor

Publications


**Invited Visits**

**Jarvi K:** Current Andrology Symposium. Turkish Society of Andrology, Sanliurfa, Sanliurfa, Turkey, 19-22 September 2012. Invited Speaker: 1/ Male infertility, past, present and future. 2/ Surgical treatment of male infertility. 3/ Recent advances in genetics of male infertility.

**Jarvi K:** Cystic Fibrosis Canada, Canada, 20 November 2012. Invited Lecturer: Cystic Fibrosis and Male Fertility.


**Jarvi K:** American Society of Andrology, San Antonio, Texas, United States, 15 April 2013. Chair: Symposium III - Hormones and drugs regulating testis function.

**Jarvi K:** American Urological Association, San Diego, California, United States, 6 May 2013. Invited Lecturer: Investigation and Management of Scrotal Pain for the Practicing Urologist.

**Lo K C-L:** Canadian Fertility and Andrology Society, Ottawa, Ontario, Canada, 8 September 2012. Invited Speaker: Impact of Using Testicular / Epididymal Sperm Instead of Ejaculated Sperm on IVF/ICSI Success in Selected Couples with Severe Male Factor Infertility.

**Lo K C-L:** University of Alberta, Division of Urology, Edmonton, Alberta, Canada, 30 November 2012. Visiting Professor: Cancer Survivorship: Wanting Babies in the Future & Make it Happen Talk: How and When: Current Fertility Treatments for Men with Azoospermia – Do we need a Robot to do Better?

**Lo K C-L:** American Society of Andrology, San Antonio, Texas, United States, April 2013. Chair: Infection and Immunity.

**Lo K C-L:** American Urological Association Meeting, San Diego, United States, 5 May 2013. Invited Speaker: Male Infertility as a Marker of Pediatric, Present and Future Male Health – This Generation to the Next.

**Zlotta A:** 21st Panhellenic Urological Congress, Athens, Greece, 11-14 October 2012. Presenter: 1/ Prostate cancer: a very peculiar disease (prevalence, incidence etc). 2/ Management of high risk non muscle invasive bladder cancer.

**Zlotta A:** Association of Academic European Urologists (AAEU), Salzburg, Austria, 6-9 December 2012. Presenter: Dynamic Network Modularity for Prediction of T1HG Bladder Cancer Behavior.

**Zlotta A:** European Association of Urology, Milan, Italy, 16-18 March 2013. 1/ Chair: Abstract Session: Evolving concepts in testicular cancer. 2/ Instructor: Prostate Cancer - Screening, diagnosis and staging - ESU Course 1.

**Research and Investigations**


**A non-invasive assay that enables non-invasive differentiation between obstructive and non-obstructive azoospermia.** Jarvi K, Diamandis EP. MaRS Innovation ($100,000 2013)

**A non-invasive epigenetic urinary biomarker panel for the early detection of bladder cancer.** Zlotta A, Lo K, Rendon R, Bapat B. Canadian Urological Association ($50,000 2012 - 2013)


Use of BOTOX to treat scrotal pain. Jarvi K, Gordon A. Allergan Inc. ($22,100 2013)

Honours Received

Lo KC: A.W. Bruce Faculty Undergraduate Teaching Award, Dept of Surgery, Faculty of Medicine. 2013
Zlotta A: Best Poster Award, European Association of Urology. 2013
Historically the Department of Surgery at St. Joseph’s Health Centre has enjoyed a strong reputation for both clinical and teaching excellence. 2012-13 has marked a period of growth and expansion for the surgical program at St. Joseph's. The number of surgical procedures performed within a variety of divisions such as hepatobiliary, thoracic surgery, bariatrics, orthopedic arthroplasties and cataract extractions have increased over the preceding year. The number of learners in the Department of Surgery, especially at the undergraduate level, has also increased as we have established a stronger association with the Fitzgerald Academy at the University of Toronto. Furthermore, the reputation for outstanding surgical education at St. Joseph’s has been enhanced and consolidated with the establishment of a Department of Medical Education and Scholarship (DMES) at the Health Centre.

**Division Heads**

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<tr>
<th>Division</th>
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<tr>
<td>General Surgery</td>
<td>Richard Hart</td>
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<tr>
<td>Thoracic Surgery</td>
<td>Maurice Blitz</td>
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<tr>
<td>Orthopedic Surgery</td>
<td>Amr El Maraghy</td>
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<tr>
<td>Plastic Surgery</td>
<td>Craig Fielding</td>
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<tr>
<td>Urology</td>
<td>Umesh Jain</td>
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**Recruitment**

Dr. Carlos Lopez joined the Orthopedic division in January 2013 having completed postgraduate training in sports medicine. Carlos has a clinical interest in the treatment of upper extremity and ACL repair.

**Departures**

Dr. Lloyd Smith, former Surgeon-in-Chief (2002-2012) will be leaving St. Joseph’s in 2013 to become the new Chief of Surgery at North York General Hospital.

**Education**

The Department of Medical Education and Scholarship (DMES) was established at St. Joseph’s Health Centre in November 2012

**Division of General Surgery**

| Dr. C. Compeau          | Assistant Professor       |
| Dr. T.A. Harmantas      | Assistant Professor       |
| Dr. R.S. Hart           | Lecturer (Division Head)  |
| Dr. S. Jayaraman        | Assistant Professor       |
| Dr. D.R. Lindsay        | Lecturer                  |
| Dr. P.A. Sullivan       | Lecturer                  |

**Publications**


Hart RS. University of Toronto Surgical Oncology Manual Author- Chapter Adenocarcinoma of the Pancreas. 2012
Honours Received

Compeau C: appointed vice-chair examination committee, Thoracic Surgery, Royal College of Physicians and Surgeons
Compeau C: Divisional teaching award winner 2012-13
Jayaraman S: Divisional teaching award winner 2012-13

Division of Orthopaedics

Dr. W.A. ElMaraghy Assistant Professor
(Division Head)
Dr. M. Kliman Lecturer
Dr. C. Lopez

Dr. M. Roscoe Assistant Professor
Dr. G. Vincent Assistant Professor
Dr. M. Wood Lecturer

Publications


Honours Received

ElMaraghy A: Divisional teaching award winner 2012-13

Division of Plastic and Reconstructive Surgery

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

Invited Visits


Honours Received

Kasrai L: Divisional teaching award winner. 2012-13
Levine RH: Charles Mickle Fellowship Award Outstanding teaching in surgical education, University of Toronto, 2013
Wanzel RK: Best Teacher (Division of Plastic Surgery, St. Joseph’s Health Centre). 2013

Division of Thoracic Surgery

Dr. M. Blitz  Assistant Professor (Division Head)
Dr. C. Compeau  Assistant Professor
Dr. M. Ko  Assistant Professor

Publications


Honours Received

Blitz M: Teaching Excellence Award, St. Joseph’s Health Centre
Blitz M: appointed Director of Surgical Foundations, Department of Surgery, University of Toronto
Compeau C: appointed vice-chair examination committee, Thoracic Surgery, Royal College of Physicians and Surgeons
Division of Urology

Dr. A. Chawla  Lecturer
Dr. U. Jain  Lecturer (Division Head)
Dr. A. Marcuzzi  Lecturer
Dr. A. McLean  Lecturer

Publications


Research and Investigations

A prospective, Single Product, observational Registry involving patients presenting with Locally Advanced or Metastatic prostate cancer receiving ELIGARD as Androgen Deprivation therapy. Chawla A. (2010- Present)

A prospective study to evaluate the incidence of skeletal events in Prostate Cancer Patients undergoing ADT. Chawla A. BHOS. (2010-Present)

A Randomized, Double-Blind, Placebo Controlled, Parallel Group, Multicenter Study to Investigate the Efficacy and Safety of SER120 Nasal Spray Formulations in Patients with Nocturia. Chawla A. SERENITY. (2011- Present)

Canadian Real Life Evaluation of the Effectiveness of Lupron in the Management of Prostate Cancer. Chawla A. CRONOS. (2011- Present)

Honours Received

Jain U: Best Teacher Award, Department of Surgery, St Joseph Health Centre. 2011-12

McLean A: Divisional teaching award
The 2012-2013 academic year was another busy one at St. Michael’s Hospital. The collaboration between all departments with our planning team have been instrumental in putting together the preparation and plans for a new 17 floor state-of-the-art Patient Care Tower which would include the building of new 5 new hybrid operating rooms has built so much enthusiasm amongst our Department members. To see the floor plans on an architectural template and watch the changes being made to the Queen/Victoria intersection is astounding. Having experienced the anticipation and watched the Li Ka Shing Knowledge Institute, Keenan Research Centre and International Health Center come to fruition brings everything into perspective when it comes to the care and ability to provide the best available medical and surgical treatment to our patients.

We have welcomed a few new faculty members. In July, Dr. Sandra de Montbrun joined the Division of General Surgery. Dr. deMontbrun is a Surgeon-Scientist and Assistant Professor with a clinical specialty in the area of colorectal surgery. She is currently completing her PhD at the University of Toronto focusing on simulation and accessing clinical skills. Her work to date has drawn international attention. Dr. Joao Rezende- Neto joined the Division of General Surgery and Trauma Team in February 2013 as an Associate Professor and Surgeon-Investigator. His Clinical focus is on trauma and acute care surgery. Dr. Rezende is a graduate of the Federal University of Minas Gerais and the obtained his PhD through the Universities of Colorado and the Federal University of Minas Gerais. He completed a Clinical Fellowship in Trauma and Critical Care at the Boston University Medical Centre and a Research Fellowship in Trauma Surgery at Sunnybrook Health Sciences Center. Dr. Greg Fairn also joins the Division of General Surgery as a full time Scientist and Assistant Professor. Dr. Fairns obtained his PhD from Dalhosie University and completed a postdoctoral fellowship in Cell Biology at the Hospital for Sick Children. His research focus is a combination of cellular, molecular, genetic and biochemical approaches in mammalian cells and model organisms to study several aspects of biological membranes. His addition to the Department of Surgery complements the many things happening at the Keenan Research Center.

In September, Dr. Avery Nathens successful moved into the Surgeon-in-Chief position at Sunnybrook Health Sciences Center. With this change, Dr. Nancy Baxter was been appointed interim Head of the Division of General Surgery until a search could be conducted. Dr. Sandro Rizoli joined St. Michael’s Hospital in his new role as Director of Trauma in April 2013. Dr. Rizoli is a quality
leader and has had a stellar career as a trauma surgeon and surgeon-scientist. His current research focuses on the mechanisms of early trauma coagulopathy and the use of blood in massive bleedings. Dr. Rizoli has also been appointed the inaugural Chair in Trauma Research for a five year term. This chair will support his ongoing research and innovation in the provision of care to trauma patients, both locally and nationally.

Dr. Tim Daniels was appointed to the position of Division Head in Orthopaedic Surgery at St. Michael’s Hospital in September 2012. Dr. Emil Schemitsch who has spent more than a decade in this position, and through his leadership and guidance has built a tremendous division. We look forward to Dr. Daniels leadership and contributions in his new role. In January 2013, Dr. Daniel’s was also appointed the Inaugural Foot and Ankle Chair in Research at St. Michael’s Hospital and is the first of its kind in Canada.

In January we hosted an annual education evening within the Department. The discussion focused on common problems that lead to difficult encounters and provided general advice about how to manage problem interactions in a clinical setting.

Our Annual Education Achievement Awards Ceremony was held in June. The proceeding faculty members were presented with the following awards for their contribution to the teaching mission at St. Michael’s Hospital. The Donald J. Currie Award in Undergraduate Teaching was awarded to Dr. Marcus Burnstein. This year Dr. Burnstein also won the Colin Woolf Award for Excellence in Teaching for Continuing Professional Development at the University of Toronto. The William J. Horsey Postgraduate Teaching Award was awarded to Dr. David Latter. The Dr. Jameel Ali Continuing Education Award was awarded to Dr. Subodh Verma who has demonstrated sustained contributions to continuing education through participation, development and dissemination of knowledge in programs locally, nationally and internationally. It is noteworthy to mention that earlier this year, Dr. Verma also received the Royal College of Physicians and Surgeons of Canada’s Royal College Medal of Surgery Award.

Many of our faculty members have been recognized through several avenues such as publications, grants, education, research, clinical outcomes, surgical skills, both national and internationally. To mention a few are: Dr. John Marshall was nominated as a Fellow into the Canadian Academy of Health Sciences. Dr. Earl Bogoch was the Patient First Award for leadership in developing and implementing the Exemplary Care Program by Industry. Dr. Michael McKee won the Bovill Award from the Orthopaedic Trauma Association, Dr. Julian Spears won the ACE Award from the Ministry of Health and Long Term Care and Dr. Lee Errett received the Queen’s Diamond Jubilee Medal.

At the end of the academic year, we said farewell to two individuals whom through their dedicated of their careers, contributed much to the landscape and missions of education, research and clinical care at St. Michael’s Hospital and the University of Toronto. Dr. Paul Muller who has held the position of Surgeon-in-Chief at St. Michael’s Hospital from 1992-1998 and has had a remarkable careers as an academic neurosurgeon, and Dr. Robert Mustard who came to St. Michael’s Hospital from the Wellesley Hospital with the amalgamation in 1998 and had held the position of Surgical Coordinator of Undergraduate Education at the Fitzgerald Academy in the early 2000s. He has always had a deep and focused interest in undergraduate education and his ability to sustain that commitment has not gone unnoticed. He has always been extremely popular amongst our trainees and many colleagues. We wish them both a very happy retirement.

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**Division of Cardiac Surgery**

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<tr>
<th>Dr. D. Bonneau</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. L.E. Errett</td>
<td>Professor</td>
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<tr>
<td>Dr. D.A. Latter</td>
<td>Associate Professor (Division Head)</td>
</tr>
<tr>
<td>Dr. M. Peterson</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. S. Verma</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. F.A. Sullivan</td>
<td>Lecturer</td>
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</tbody>
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**Publications**


Di Eusanio M, Trimarchi S, Patel HJ, Hutchison S, Suzuki T, Peterson MD, Di Bartolomeo R, Folesani G, Pyeritz RE, Braverman AC, Montgomery DG, Isselbacher EM, Nienaber CA, Eagle KA, Fattori R. Clinical presentation, management, and short-term outcome of patients with type A acute dissection...


**Invited Visits**

**Errett LE:** 2013 Stikeman Professorship, McGill University, Montreal, Quebec, Canada, 9 May 2013. Presenter: Outcomes of cardiac surgery in previously turned down patients.

**Latter DA:** Rouge Valley Cardiologists, Toronto, Ontario, Canada, 9 October 2012. Invited Speaker: Be it Resolved: TAVI will replace conventional aortic valve replacement Debate presented to Rouge Valley Cardiologists.

**Latter DA:** Canadian Cardiovascular Congress, Toronto, Ontario, Canada, 27 October 2012. Invited Speaker: Decision Making For Cardiovascular Physicians Explore the difficult decisions encountered among patients with surgical cardiovascular diseases in the context of modern therapeutics: timing and modalities will be debated. Examples: medical vs surgical vs percutaneous revascularization; surgical correction of asymptomatic severe valvular lesions, and TAVI.

**Peterson M:** CCN Ontario TAVR Meeting-Provincial Update, Ontario, Canada, 20 June 2013. Presenter: Assessing and Documenting Suitability for TAVR: More Important than You Think!

**Verma S:** theheart.org, Munich, Germany, 29 August 2012. Invited Speaker: Munich review: PURE, FAST-MI, WOEST, ACCESS-EU, TRILOGY, and other top trials from ESC 2012.

**Verma S:** King Saud University, Riyadh, Saudi Arabia, 3 October 2012. Invited Speaker: Translational studies in atherosclerosis.

**Verma S:** William Osler Health Centre - Brampton Civic Hospital, Brampton, Ontario, Canada, 26 January 2013. Invited Speaker: Management of dyslipidemia and atherosclerosis in 2012.

**Verma S:** University of Ottawa Heart Institute Foundation Anand and Saroj Aggarwal South Asian Heart Health Endowed Lectureship, Ottawa, Ontario, Canada, 3 February 2013. Visiting Professor: BRCA1 and Cardiovascular Regeneration.


**Verma S:** Humber River Regional Hospital, Toronto, Ontario, Canada, 1 May 2013. Invited Speaker: Dyslipidemia management in atherosclerosis.

**Verma S:** Health Sciences North, Sudbury, Ontario, Canada, 14 May 2013. Invited Speaker: 2013 Canadian Risk Assessment and Dyslipidemia guidelines.

**Verma S:** 4th Annual State of the Heart Symposium, Toronto, Ontario, Canada, 8 June 2013. Co-chair and Speaker: CIRT and CANTOS: Where will they take us?

**Verma S:** theheart.org, Toronto, Ontario, Canada, 18 June 2013. Chair: Hot Topics in Cardiology.

**Verma S:** Markham Stouffville Hospital, Markham, Ontario, Canada, 21 June 2013. Invited Speaker: Current approaches to ACS management.

**Research and Investigations**


Honours Received

**Errett LE:** Queen Elizabeth II Diamond Jubilee Award, St. Michael's Hospital, Toronto, Ontario, Canada. Granted for his dedicated service and contributions to the community and Canada. Sep 2012

**Latter DA:** 2012 Sarita Verma Award for Advocacy and Mentorship in Postgraduate Medicine, Dept of Surgery, Faculty of Medicine, University of Toronto.

**Latter DA:** William Horsey Excellence in PG Education, Post Graduate Department of Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto, Ontario, Canada. Jun 2013.

**Verma S:** Royal College of Physicians and Surgeons of Canada (The), Canada. Royal College Medal Award in Surgery. Jul 2012

**Verma S:** Canada Research Chair in Atherosclerosis (Tier 2), University of Toronto, Canada. 2012

**Verma S:** Jameel Ali Award for Excellence in Continuing Education in Surgery, St Michael's Hospital, Toronto, Ontario, Canada. 2013.

Division of General Surgery

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Dr. N. Ahmed</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. J. Ali</td>
<td>Professor</td>
</tr>
<tr>
<td>Dr. N. Baxter</td>
<td>Associate Professor (Interim Head)</td>
</tr>
<tr>
<td>Dr. J.M.A. Bohnen</td>
<td>Professor</td>
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<tr>
<td>Dr. M.J. Burnstein</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. S. de Montbrun</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. R. George</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. T. Grantcharov</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A. Kapus</td>
<td>Professor</td>
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<tr>
<td>Dr. S. Kitto</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. J. Koo</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. W. Kuebler</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. B. Lawless</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. J.C. Marshall</td>
<td>Professor</td>
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<tr>
<td>Dr. R. Mustard</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. J.B. Rezende-Neto</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. O. Rotstein</td>
<td>Professor</td>
</tr>
<tr>
<td>Dr. K. Szaszi</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>

Publications


Ali J. Telemedicine as a potential medium for teaching the Advanced Trauma Life Support (ATLS) course. JSURGREGS-D-12-00867. March/April 2013; 70 (2).


Invited Visits


Ali J: Tehran, Iran, Islamic Republic Of, 16-18 November 2012. Instructor Course Educator And Course Director: Advanced Trauma Life Support (ATLS) Program.

Ali J: Trois Rivieres Hospital, Quebec, Canada, 29 November 2012. Visiting Professor: ASSET (Advanced Surgical Skills for Exposure in Trauma) Course for Surgeons Course Director.

Ali J: Memorial University of Newfoundland, Newfoundland and Labrador, Canada, 12 December 2012. Visiting Professor: Inaugural Advanced Trauma Operative Management (ATOM) Course for Surgeons Course Director.

Ali J: 8th Annual Academic Surgical Congress, New Orleans, Louisiana, United States, 7 February 2013. Presenter: The Advanced Trauma Operative Management (ATOM) course - a 2-student to 1-faculty model.

Ali J: Trauma Association of Canada, Whistler, British Columbia, Canada, 11 April 2013. Presenter: 1/ Advanced Trauma Life Support (ATLS) Program in Canada. 2/ The Rural Trauma Team Development Course (RTTDC) in Pakistan.


Baxter N: Georgian Bay Oncology Group, Toronto, Ontario, Canada, 12 September 2012. Speaker: Evidence-based Management of Primary Rectal Cancer, and Other Fairy Tales.

Baxter N: Canadian Association of General Surgeons, Calgary, Alberta, Canada, 15 September 2012. Speaker: Lymph nodes: How many, how high and extra mesenteric.


de Montbrun S: Canadian Association of General Surgeons Symposium: Competency-based curricula in surgery, Calgary, Alberta, Canada, 15 September 2012. Invited Lecturer: The role of structured and objective assessment in the process of skills acquisition and certification.

de Montbrun S: Research, education and innovation for better outcomes - the RETREAT, Palm Beach, Florida, United States, 5 January 2013. Invited Lecturer: Methodologies for design of high-stakes assessment in surgery.


de Montbrun S: Association for Surgical Education, Orlando, Florida, United States, 23 April 2013. Presenter: Am I Cut Out for This - Transitioning from Trainee to Attending Surgeon.


Grantcharov T: CTV news, Canada, 10 July 2012. Invited Speaker: Simulation laboratory helps train surgeons-to-be.

Grantcharov T: Imperial College London, London, United Kingdom, 6 September 2012. Distinguished Speaker: Use of simulation to reduce errors and improve outcomes.


Grantcharov T: CBC radio: white coat, black art, Toronto, Canada, 23 November 2012. Invited Speaker: From the cockpit to the OR.


Kitto S: Tampere University and Finnish University Properties, Helsinki, Finland, 30 August 2012. Speaker: Why SKYKoy should care about an evidence based methodology for a campus development project.


Kitto S: Kaiser Permanente Colorado Institute for Health Research, Regional Education Committee Meeting, Denver, Colorado, United States, 4-5 December 2012. Invited Speaker: 1/ Mapping Practice
Boundaries and Intersections between Domains: Continuing education, knowledge translation, patient safety and quality improvement. 2/ Re-visiting the role of health and medical culture(s) in implementation Science.


Kitto S: Canadian Conference on Medical Education, Quebec, Canada, 22 April 2013. Speaker: The Perceived Intersections and Boundaries between the Domains of Continuing Education and Quality Improvement: Preliminary findings.


Lawless B: Australasia and Canada Trauma Association Annual Scientific Meeting, Canada, 11-12 April 2013. 1/ Chair: Open Scientific Paper Session. 2/ Invited Speaker: Organizing Trauma Systems in Ontario.


Marshall JC: 9th Turkish Congress of Intensive Care Medicine/1st Euro-Asian Critical Care Meeting, Ankara, Turkey, 28-30 November 2012. Invited Speaker: Guidelines, the Global Sepsis Alliance, and InFACT.


Marshall JC: 10th Critical Care Symposium, Manchester, United Kingdom, 25-26 April 2013. Invited Speaker: 1/ The neutrophil in critical illness. 2/ Pre-B Cell Colony Enhancing Factor (PBEF)/Namt/Visfatin.


Rezende-Neto JB: 10th Brazilian Congress of Collective Health, Porto Alegre, Brazil, 2012. Trauma Registry in a University Based Hospital in Southeastern Brazil: Maintenance, Challenges and Goals.


Rezende-Neto JB: Trauma Symposium of the Minas Gerais Chapter of the Brazilian College of Surgeons, Belo Horizonte, Brazil, 2012. How and When to Use Permissive Hypotension in Trauma

Rezende-Neto JB: World Trauma Congress, Rio de Janeiro, Brazil, 2012. Speaker: 1/ What is the Ideal Ratio of Crystalloid, Plasma and Red Cells for Fluid Resuscitation in Hemorrhagic Shock? An Experimental Model in Rats. 2/ Permissive Hypotension does not Reduce Regional Organ Perfusion Compared to Normotensive Resuscitation: Animal Study with Fluorescent Microspheres. 3/ How to Implement a Trauma Registry? Analysis of the First Year in a Public Hospital in Brazil (The Risolenta Tolentino Neves Hospital). 4/ How to Decide for Primary Fascial Closure During the First Return to the Operating Room After Damage Control Laparotomy? 5/ Moderator: Coagulopathy and Massive Hemorrhage in Trauma.

Rezende-Neto JB: TRAUMA 2013: A Joint Meeting between TAC and ATS, Whistler, British Columbia, Canada, April 2013. Presenter: 1/ Motorcycle Clothesline Injury Prevention: Experimental Test of a Protective Device. 2/ Fresh whole blood is not better than component therapy. 3/ Patients who sustain gunshot pelvic fractures are at increased risk for deep abscess formation: aggravated by rectal injury.
Research and Investigations


American Board of Colon and Rectal Surgery COSATS Examination. deMontbrun S, MacRae H, Steele S, Roberts P: Covidien, Clinical Education Department Program. ($13,366 2012 – 2014).


Interprofessional competencies in a student-led clinical setting. Masiello I, Löfgren S, Ericson A, Bolinder G, Reeves S, Kitto S. Karolinska University Hospital, Karolinska Institutet. ($162,000 2012).


Participation in the ColonCancerCheck Program. Baxter NN: Cancer Care Ontario (CCO). ($219,842 2011 - 2014).


Honours Received


Baxter N: American College of Surgeons Australia and New Zealand Travelling Fellowship, American College of Surgeons, United States. 2012.
Baxter N: Eugenie Stuart Best Instructor Award, University of Toronto, Toronto, Ontario, Canada. 2013

Burnstein MJ: Marcus Burnstein CPD Award, Dept of Surgery, Faculty of Medicine, University of Toronto. Creation of the Annual “Marcus Burnstein CPD Award” for the best presentation of the U of T Annual Update Course in General Surgery, May 2013. Jul 2012 - Jun 2013.

Burnstein MJ: Colin Woolf Award, General Surgery, Dept of Surgery, Faculty of Medicine, Faculty of Medicine, University of Toronto. Excellence in Teaching in CPD. Jul 2012 - Jun 2013.

Burnstein MJ: Donald J. Currie Award, General Surgery, Dept of Surgery, Faculty of Medicine, St. Michael's Hospital. Undergraduate Teaching, Department of Surgery. Jul 2012 - Jun 2013.

Burnstein MJ: The University of Toronto Surgical Skills Centre Education Award, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. For outstanding contributions to Surgical Skills Education. Jul 2012 - Jun 2013.


George R: FitzGerald Academy Master Teacher Award, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. 2012 - 2013.

George R: The Nicolas Colapinto Teaching Award, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. In recognition of the best senior resident seminar of the 2012-2013 academic year. 2012 – 2013.

Kitto S: Helen P. Batty Faculty Development Award, Dept of Surgery, Faculty of Medicine, The Wilson Centre Qualitative Research Atelier Series. Innovation in Program Development and Design. 2013


Mustard R: Excellence in Postgraduate Medical Education Award, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto, Ontario, Canada. In Recognition of Excellence in Teaching Performance / Mentorship / Advocacy. Apr 2012 - Jun 2013.

Rezende-Neto JB: Teaching Excellence Award, Honored Professor, Class of 2012, Faculty of Medicine, Federal University of Minas Gerais, Belo Horizonte, Brazil. 2012

Division of Neurosurgery

Dr. M.D. Cusimano  Professor
Dr. S. Das  Assistant Professor
Dr. H. Ginsberg  Assistant Professor
Dr. R.L. Macdonald  Professor (Division Head)

Dr. R.G. Perrin  Associate Professor
Dr. T.A. Schweizer  Assistant Professor
Dr. J. Spears  Assistant Professor

Publications


Garavaglia M, Mak T, Cusimano MD, Rigamonti A, Crescini C, McCredy V, Romaschin A, Baker AJ and
Hare GM. Body Mass Index as a risk factor for increased serum Lactate during Craniotomy. Minerva Anestesiol. 2013 May 23. Principal Author. 2013 May 23. PMID: 23698547. AID: R02Y9999N00A0620 [pii].


Teschke K; Harris MA; Reynolds CCO; Winters M; Babul S; Chipman M; Cusimano MD; Brubacher J; Friedman SM; Hunte G; Monro M; Shen H; Vernich L; Cripton PA. Route infrastructure and the risk of injuries to bicyclists: A case-crossover study. American Journal of Public Health. 2012 Dec;102(12):2336-43.


Invited Visits


Cusimano MD: Newstalk 1010, Toronto, Ontario, Canada, 26 October 2012. Roads with streetcar tracks three times more dangerous for cyclists: study Research by Dr. Michael Cusimano.

Cusimano MD: The Toronto Star, Toronto, Ontario, Canada, 27 October 2012. 3D Camera for brain surgery a big leap forward Newspaper article.

Cusimano MD: CFGO AM, Ontario, Canada, 5 December 2012. NHL should eliminate bodychecking: concussion expert Research by Dr. Michael Cusimano.


Cusimano MD: The Vancouver Sun, British Columbia, Canada, 5 December 2012. Rule changes could reduce hockey violence Research by Dr. Michael Cusimano.


Cusimano MD: CFAAX1070 Victoria, British Columbia, Canada, 3 April 2013. Media Reporting of Brain Injury in Hockey.


Schweizer TA: International Stroke Conference, Symposium on assessing outcome after subarachnoid hemorrhage, Honolulu, Hawaii, United States, 6 February 2013. Invited Speaker: Developing finer outcome measures; What are some of the tests and what do they mean.
Research and Investigations


Subarachnoid hemorrhage international trials repository. Macdonald L. Canadian Institutes of Health Research (CIHR). ($25,000 2012 - 2013).


The role of prostacyclins in the survival of glioblastoma brain tumor stem cells. Das S. b.r.a.i.n.child, Research Award. ($80000 2011 - 2013).

The role of the epithelial-mesenchymal transition in the maintenance of stem-cell identity in glioblastoma brain tumor stem cells. Das S. b.r.a.i.n.child, Research Award. ($44100 2011 - 2013).


Honours Received


Division of Orthopaedics

| Dr. H. Ahn   | Assistant Professor |
| Dr. E.R. Bogoch | Professor |
| Dr. T. Daniels | Associate Professor (Division Head) |
| Dr. J. Hall   | Assistant Professor |

| Dr. M. McKee | Professor |
| Dr. E. Schemitsch | Professor |
| Dr. J.P. Waddell | Professor |
| Dr. D. Whelan | Assistant Professor |

Publications


Nauth A, Giles E, Potter BK, Nesti LJ, O’Brien FP, Bosse MJ, Anglen JO, Mehta S, Ahn J, Miclau T,


Invited Visits


Bogoch ER: Canadian Orthopaedic Resident Review in Trauma (CORR-Trauma), Mississauga, Ontario, Canada, 22 November 2012. Invited Speaker: Everything you need to know about osteoporosis.

Bogoch ER: Canadian Orthopaedic Resident Review in Reconstructive Surgery (CORR-Recon), Mississauga, Ontario, Canada, 19 January 2013. Invited Speaker: What is on the Horizon for Fracture Prevention?


Daniels T: OTA (Orthopaedic Trauma Meeting), Minneapolis, Minnesota, United States, 4 October 2012. Speaker: Recombinant Human Platelet-Derived Growth Factor-BB and Beta-Tricalcium Phosphate (rhPDGH-BB/B-CPT) in Foot and Ankle Fusions.

Daniels T: Canadian Federation of Podiatry Medicine, London, Ontario, Canada, 26 October 2012. Distinguished Speaker: 1/ Ankle arthritis - Biomechanics, gait, pathophysiology and treatment. 2/ The diabetic foot.

Daniels T: British Orthopaedic Foot and Ankle Society Annual Meeting 2012 (BOFAS), Usk Valley, Newport [Casnewydd GB-CNW], United Kingdom, 14-15 November 2012. Invited Lecturer: 1/ Ankle Arthritis: TAR (Total ankle replacement) in deformity. 2/ Alternatives to TAR.

European results: Why we need a mobile bearing prosthesis. 6/ Invited Speaker: IOFAS Symposium
Tendons gone wild: Discussion and case presentation. 7/ Moderator: IOFAS Symposium Hindfoot Disorders: Posterior tibial tendon dysfunction.


Daniels T: Congreso De La Sociedad Argentina De Medicina Y Cirugia De La Pierna Y El Pie, Buenos Aires, Argentina, 11-13 April 2013. Distinguished Speaker: 1/ Expert in the round table: ankle and hindfoot. 2/ Management of tibial/hindfoot malunions. 3/ Management of Stage IV posterior tibial tendon dysfunction. 4/ Fresh talar allograft for large talar osteochondral defects. 5/ Ankle joint replacement vs Fusion. 6/ Ankle joint replacement in talar valgus/varus deformities. 7/ Bone injuries in Charcot disease.


Daniels T: COA/CORS, Winnipeg, Manitoba, Canada, 23 June 2013. Invited Speaker: COA Outcomes of hindfoot and ankle fusions treated with Augment Injectable Bone Graft: Results of a prospective randomized controlled trial.


McKee M: JOINTS Canada, Montreal, Quebec, Canada, 24 January 2013. Invited Speaker: Clavicular Fracture.


McKee M: 2013 Eleventh Annual Andrew R. Burgess, M.D. Lectureship and Disputations, University of Maryland, Department of Orthopaedics, Maryland, United States, 31 May 2013. Invited Speaker: The Treatment of Clavicle Fractures.


Schemitsch E: Orthopaedic Trauma Association, Minneapolis, Minnesota, United States, October 2012. Speaker: 1/ Biomechanics of periprosthetic femur fracture fixation. 2/ Osteoinductive substances for fracture repair. 3/ Biomechanical measurements of cyclic preconditioning on cadaveric whole canine femurs. 4/ The validation of a new radiographic union score (RUS) for distal radius fractures.

Schemitsch E: Principles of Clinical Research Course, United States, October 2012. 1/ Course co-chair. 2/ Moderator. 3/ Study protocols—the bare bones. 4/ Writing your paper for publication.

Schemitsch E: Basic Science Focus Forum, Minneapolis, Minnesota, United States, October 2012. 1/ Moderator. 2/ Parallel vs perpendicular plating for distal humerus fractures.

Schemitsch E: Great Expectations North Trauma Symposium, Montreal, Quebec, Canada, October 2012. 1/ Course Co-Chairman. 2/ Moderator. 3/ Must read papers of 2012. 4/ panelist: Periprosthetic fractures: managing a pending epidemic.

Schemitsch E: Canadian Arthroplasty Society, London, Ontario, Canada, November 2012. 1/ Moderator. 2/ Research Committee presentation. 3/ Speaker: The impact of socioeconomic status on access to care for patients undergoing hip arthroplasty.


Schemitsch E: Interdisciplinary Partner Abuse Course for Traumatologists., Hamilton, Ontario, Canada, December 2012. Speaker: The Canadian Orthopaedic Association’s position on IPV.


Research and Investigations

A comparison of endothelial progenitor cell (EPC) based gene therapy versus mesenchymal stem cell (MSC) based gene therapy for the healing of bone defects. Nauth A, Schemitsch EH. Orthopaedic Trauma Association (The) (OTA). ($50,000 2013 - 2015).


A Randomized Clinical Trial Comparing Late versus Early Physiotherapy Start Times Following Multi-Ligament Reconstruction for Knee Dislocation (Co-LEAP). Whelan DB, Ravi B. Physicians Services Incorporated Foundation (The) (PSI). ($68,000 2011 - 2013).

A randomized clinical trial of early weight bearing for operative ankle fractures. Dehghan N, Schemitsch EH, McKee MD. Canadian Orthopaedic Trauma Society. ($6,000 2012 - 2013).


An academic hip arthroplasty fellowship. Schemitsch E. Waddell J. OMEGA Foundation. ($150,000 2011 - 2013).


An academic hip arthroplasty fellowship. Schemitsch EH. Waddell JP. Omega Foundation. ($100,000 2013 - Dec 2015).


Operative vs non-operative treatment of acute unstable chest wall injuries- a multi centered RCT. Dehghan N, Schemitsch EH, McKee MD. AO Foundation. ($119,137 2012 - 2014).


Osteoporosis Exemplary Care Program. McCrea H, Bogoch ER. Peacock Foundation. ($9,000 2012).


Reamer Irrigator Aspirator (RIA) Versus Autogenous Iliac Crest Bone Graft for the Treatment of Nonunions: A Randomized, Multi-Centre, Clinical Trial. Nauth A. Schemitsch EH, Hall J, McKee MD. Canadian Orthopaedic Trauma Society. ($6,000 2013).


Study to optimize the delivery of fracture secondary prevention program. Bogoch ER. Amgen Canada Inc (Mississauga, ON). ($10,000 2012).

Study to optimize the delivery of fracture secondary prevention. Bogoch ER. Novartis Canada Ltd. ($20,000 2012).

The use of endothelial progenitor cells (EPCs) for fracture healing in a diabetic fracture model. Lin C, Schemitsch EH. Orthopaedic Trauma Association. ($10,000 2011 - 2013).


Honours Received

Bogoch ER: Merck Canada - Patient First Award, Merck Canada, For leadership in developing and implementing The Exemplary Care Program. 2013.


McKee M: Bovill Award, Orthopaedic Trauma Association, United States. Best Paper Jul 2012 - Jun 2013


Division of Plastic and Reconstructive Surgery

Dr. JL Mahoney    Professor (Division Head)
Dr. MA Musgrave    Assistant Professor

Research and Investigations


Division of Urology

Dr. RJD Honey  Professor
Dr. JY Lee  Lecturer
Dr. K. Pace  Associate Professor (Division Head)
Dr. RJ Stewart  Assistant Professor

Publications


Invited Visits


Research and Investigation


Women’s College Hospital AFP Innovation Grant 2012. (Co-Principal Investigator). AHSC AFP Innovation Funds. Principal Investigator(s): Grober, Ethan. Collaborators: Kenneth Pace, Trevor Shuler, Sero Andonian. ($15000.00 CAD, Jan 2013 - Jan 2014).

Honours Received


Division of Vascular Surgery

Dr. V. Campell Assistant Professor
Dr. A.G. Lossing Associate Professor
Dr. A. Moloney Assistant Professor
Dr. W. Tanner Assistant Professor

Publications


RESEARCH AND INVESTIGATION


Honours Received

Moloney, T: Fitzgerald Academy Clerkship Teaching Award July 2012
Sunnybrook Health Sciences Centre
Avery Nathens, Surgeon-in-Chief

Heads of Division

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<th>Doctor</th>
<th>Division</th>
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<tr>
<td>Dr. S. Fremes</td>
<td>Cardiac and Vascular Surgery</td>
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<tr>
<td>Dr. N. Coburn</td>
<td>General Surgery</td>
</tr>
<tr>
<td>Dr. T. Mainprize</td>
<td>Neurosurgery</td>
</tr>
<tr>
<td>Dr. H. Kreder</td>
<td>Orthopaedic Surgery</td>
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<tr>
<td>Dr. P. Binhammer</td>
<td>Plastic Surgery</td>
</tr>
<tr>
<td>Dr. R. Kodama</td>
<td>Urology</td>
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Recruitment

Shady Ashamalla has joined the Division of General Surgery, Surgical Oncology team and the GI Oncology Site Group at the Odette Cancer Centre.

Division of Cardiac and Vascular Surgery

Fuad Moussa was the recipient of the Peters-Boyd Academy Teaching Award for Clerkship Teaching in Surgery, Cardiac Surgery.

Division of General Surgery

Division members published 110 articles and chapters over the course of the academic year. Sandro Rizoli was appointed Director Trauma and Acute Care at Sunnybrook, and was offered an endowed research chair. Homer Tien received a Queen's Diamond Jubilee Medal from the Governor General of Canada to honour significant contributions and achievements by Canadians in addition to the Robert Mustard Mentorship Award, General Surgery, Department of Surgery.

Division of Neurosurgery

The Division provides support for the trauma, cancer and brain science programs. A cooperative program with imaging optimizes treatment for patients with intracerebral aneurysms. Leo da Costa received the Dr. Marvin Tile Award, Sunnybrook Health Sciences Centre; and Todd Mainprize was the recipient of the Alan Hudson Teaching Award in Neurosurgery. This award is given to a faculty member who has demonstrated excellence in Undergraduate and Post-graduate Teaching.

Division of Orthopaedic Surgery

This Division published 70 articles and chapters over the course of the academic year. Dianne Nam was the recipient of the Frederick Banting and Charles Best Canada Graduate Scholarships Award; the Howard Rosen Best Table Instructor Award from AO Trauma North America; Excellence in Undergraduate Teaching, Department of Surgery, Sunnybrook Health Sciences Centre; and the Peters Boyd Academy Teaching Award Nominee, Department of Surgery, Sunnybrook Health Sciences Centre. Marku Nousiainen received the 2013 Award for Excellence in Postgraduate Medical Education in the Development/Innovation category, Postgraduate Medical Education Office, University of Toronto for work relating to curriculum development in Competency Based Curriculum; and the Inaugural Award for “Excellence in Innovation”, Association for Surgical Education, Orlando, Florida, United States. He was also credited for work relating to development of the “Orthopaedic Bootcamp” module in the Competency Based Curriculum, Division of Orthopaedic Surgery, University of Toronto. Albert Yee received A Sunnybrook Moment of Service Excellence to honor his outstanding service and dedication to patients.
Division of Plastic Surgery

Fifty-five journal articles and chapters were written by the division during the academic year. Marc Jeschke won the AB Wallace Memorial Award from The Healing Foundation, United Kingdom; and the George Armstrong-Peters Prize, Department of Surgery University of Toronto. Shahriar Shahrokhi won the Peters Boyd Academy, Plastic Surgery, Department of Surgery, Sunnybrook Health Sciences Centre.

Division of Urology

The Division focuses its activities on urologic oncology, including survivorship issues, female urology and urethral reconstruction. The Division published 39 articles for the academic year. Dr. Laurence Klotz was named Honourary Director, Prostate Cancer Canada. Robert Nam received a U. of T. Faculty Postgraduate Surgical Teaching Award in Urology.

Division of Cardiac and Vascular Surgery

<table>
<thead>
<tr>
<th>Dr. G. Christakis</th>
<th>Professor</th>
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<tr>
<td>Dr. G. Cohen</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A. Dueck</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. S. Fремes</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. D. Kucey</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. R. Maggisano</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. F. Moussa</td>
<td>Lecturer</td>
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<tr>
<td>Dr. G. Papia</td>
<td>Assistant Professor</td>
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Publications


INVITED LECTURES


Moussa F: 9th International Congress of Updates in Cardiology and Cardiovascular Surgery (UCCVS), Antalya, Turkey, March 2013. Invited Speaker: Minimally Invasive Coronary Artery Bypass Surgery Using a Small Anterior Thoracotomy: A Single Centre Experience of Single and Multi-Vessel Coronary Artery Disease Sunnybrook Health Sciences Centre experience with minimally invasive off-pump coronary artery bypass surgery.

Research and Investigations


GRIIP (Graft Imaging to Improve Patency). Friesm S: Heart and Stroke Foundation of Canada (HSFC). (2009 - present).


SUPERIOR SVG Patency CABG Trial - Surgical and Pharmacological Novel Interventions to Improve Overall Results of Saphenous Vein Graft Patency in CABG Surgery: An International Multi-Center RCT. Friesm S: Heart and Stroke Foundation of Canada (HSFC). ($290,163 2010 - 2013).


Honours and Awards


Moussa F: Peters-Boyd Academy Teaching Award for Clerkship Teaching in Surgery, Cardiac Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada. Clerkship Preceptor in Surgery, 2012 - 2013.
Division of General Surgery

Dr. S. Ashamalla    Assistant Professor    Dr. C. Law    Associate Professor
Dr. F. Brenneman    Associate Professor    Dr. A.B. Nathens    Professor
Dr. P. Chu    Associate Professor    Dr. S. Rizoli    Associate Professor
Dr. N. Coburn    Assistant Professor (Division Head)    Dr. T. Ross    Associate Professor
Dr. D. Fenech    Assistant Professor    Dr. A. Smith    Professor
Dr. S. Hanna    Associate Professor    Dr. H. Tien    Associate Professor
Dr. C. Holloway    Associate Professor    Dr. L. Tremblay    Assistant Professor
Dr. P. Karanicolas    Assistant Professor    Dr. F. Wright    Associate Professor

Publications


Shahrokhi S. Diagnosis and Treatment of Burn wound infections. In Burn Care and Treatment: A Practical Guide (Marc G. Jeshcke, Lars-Peter Kamolz, Shahriar Shahrokhi eds.) Springer 2013 Apr 1.


Invited Visits

Ashamalla S: Canadian Association of General Surgeons, Calgary, Alberta, Canada, September 2012. Presenter: University of Toronto General Surgery Residency Competency/Simulation Based Curriculum: Lessons Learned.


Coburn N: University of Siena, Siena, Siena, Italy, 10 July 2012. Invited Speaker: Management of Gastric Cancer in North America.


Coburn N: 10th International Gastric Cancer Congress, Italy, 20 June 2013. Invited Lecturer: Clinical Impact of Meta-Analysis in Gastric Cancer Research.

Hanna SS: Menouf, Egypt, 5-6 February 2013. Visiting Professor.


Karanicolas PJ: Americas Hepato-Pancreato-Biliary Association (AHPBA), Miami, Florida, United States, 23 February 2013. Speaker: Medial Open Transversus Abdominis Plane (MOTAP) Catheter Analgesia: A simple, safe, effective technique following open liver resection. To share technical “tricks” in HPB surgery or management pearls in treating problems encountered by patients.

Karanicolas PJ: Southlake Regional Cancer Centre, Newmarket, Ontario, Canada, 5 June 2013. Visiting Professor: Hepatic Artery Infusional Pump Chemotherapy for Patients with Unresectable Colorectal Liver Metastases.


Law C: Colorectal Cancer Association of Canada (CCAC), Ontario, Canada, 14 December 2012. Presenter: Canadian HIPEC Collaborative Group.

Law C: Roche GI Multidisciplinary Advisory Board, Whistler, British Columbia, Canada, 2 February 2013. Invited Speaker.

Law C: ENETS, Barcelona, Spain, 6 March 2013. Invited Speaker: ENETS 10th Annual Conference for the Diagnosis and Treatment of Neuroendocrine Tumor Disease.

Law C: New South Wales NETwork Oncology Group, Sidney, New South Wales, Australia, 18 April 2013. Presenter: The role of surgery in the multidisciplinary management of advanced NETs.
Law, Calvin: WestMead Hospital, Endocrinology and Oncology Grand Rounds, Westmead, New South Wales, Australia, 18 April 2013. Presenter: The role of surgery in the multidisciplinary management of advanced NETs.

Law C: St. George Hospital, Neuroendocrine and Upper GI Oncology Rounds, Kogarah, New South Wales, Australia, 22 April 2013. Presenter: Complex Cases in Gastrointestinal Neuroendocrine Tumours.

Law C: St. Vincent’s Hospital, Gastroenterology-Endocrinology Oncology Rounds, Darlinghurst, New South Wales, Australia, 22 April 2013. Presenter: Multidisciplinary Strategies in Pancreatic and Gastrointestinal Neuroendocrine Tumours.

Law C: Royal Northshore Hospital, St. Leonard, New South Wales, Australia, 22 April 2013. Presenter: Setting up the Multidisciplinary Neuroendocrine Clinic: Strategies and Challenges.


Law C: Novartis, Chicago, Illinois, United States, 1 June 2013. Chair: Novartis NET Advisory Board Meeting.

Law C: Canadian Conference on Community Oncology (CCOCO), British Columbia, Canada, 22 June 2013. Invited Speaker: Update on Pancreatic Cancer: Surgical Perspective

Smith AJ: Northeastern Ontario Update in Oncology, Sudbury, Ontario, Canada, 28 September 2012. Speaker: Achieving an R0 resection in locally advanced CRC.


Smith AJ: University of the West Indies, Mona, Kingston, Jamaica, 13 May 2013. Distinguished Speaker: How to Create a Cancer Centre of Excellence in a Tertiary Care Setting.

Wright F: Canadian Association of General Surgeons, Calgary, Alberta, Canada, September 2012. Invited Speaker: Melanoma - a review lecture as part of CAGS sponsored review course.

Wright F: European School of Oncology in conjunction with Nature Reviews in Clinical Oncology and Critical Reviews in Oncology Hematology, Italy, 1 November 2012. Invited Speaker: Melanoma excision margins and sentinel node biopsy Web-cast across Europe.


Wright F: Canadian Melanoma Network, Banff, Alberta, Canada, February 2013. Invited Speaker: How often do level 3 nodes have melanoma metastases and how does this affect outcomes?

Research and Investigations


Development of a custom designed skin replacement derived from subamniotic mesenchymal and epithelial stem cells. Jeschke M, Tien H. Canadian Forces Health Services. ($500,000 2010 - 2013).


Lumpectomy vs. mastectomy or contralateral prophylactic mastectomy: an exploratory study to understand why women with early breast cancer are now choosing more extensive surgery? Wright F, Covelli A, Baxter N, Fitch F. Canadian Breast Cancer Foundation (CBCF). ($71,500 2010 - 2013).


Quality of Life Following Resection of Colorectal Cancer. Karanicolas P, Coburn N, Law C. Colon Cancer Canada. ($60,000 2012).


Surveillance after curative-intent resection of colorectal cancer in Ontario: are we misallocating scarce resources. Muir J, Law C. Colon Cancer Canada. ($50,000 2013 - 2014).


Honours Received

Rizoli S: Director Trauma and Acute Care, University of Toronto, Toronto, Ontario, Canada. Chair, endowed research chair. Apr 2013.
Smith AJ: Honorary Member, British Columbia Surgical Society, Vancouver, British Columbia, Canada. 2013


Tien H: Robert Mustard Mentorship Award, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. Jun 2013.

Division of Neurosurgery

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

Publications


INVITED LECTURES

da Costa L: Montreal Neurological Institute, Montreal, Quebec, Canada, 31 May 2013. Invited Speaker: Carotid revascularization. How to choose when everything is good?

da Costa L: Canadian Neurological Sciences Federation, Montreal, Quebec, Canada, 14 June 2013. Presenter: Alterations in cerebrovascular reactivity to carbon dioxide in the early phase of subarachnoid hemorrhage do not predict vasospasm in good grade patients.

Research and Investigations


Molecular Targetting of the RHO-GTPase Pathway in Human Astrocytomas. Rutka J, Hynynen K, Mainprize T. Canadian Institutes of Health Research (CIHR). ($750,000 2010 - 2015).


Honours Received

da Costa L: Dr. Marvin Tile Award, Sunnybrook Health Sciences Centre. Jun 2013
Mainprize T: Alan Hudson Teaching Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Neurosurgery Faculty showing excellence in Undergraduate and Post-graduate Teaching. Jun 2012

Division of Orthopaedics

Dr. M. Akens  Lecturer
Dr. T. Axelrod  Professor
Dr. H. Cameron  Associate Professor
Dr. J. Cameron  Assistant Professor
Dr. J. Finkelstein  Associate Professor
Dr. M. Ford  Assistant Professor
Dr. J. Gollish  Assistant Professor
Dr. R. Holtby  Assistant Professor
Dr. R. Jenkinson  Lecturer
Dr. H. Kreder  Professor (Division Head)
Dr. B. Maki  Professor

Dr. P. Marks  Associate Professor
Dr. J. Murnaghan  Associate Professor
Dr. D. Nam  Assistant Professor
Dr. M. Nousiainen  Assistant Professor
Dr. R. Richards  Professor
Dr. D. Stephen  Associate Professor
Dr. V. Wadey  Assistant Professor
Dr. C. Whyne  Associate Professor
Dr. C. Wright  Associate Professor
Dr. A. Yee  Associate Professor

Publications


Cheng KC, McKay SM, King EC, Maki BE. Does aging impair the capacity to use stored visuospatial information or online visual control to guide reach-to-grasp reactions evoked by unpredicted balance perturbation? Journal of Gerontology. 2012.


**Invited Visits**

**Akens M:** Military Health System Research Symposium, Fort Lauderdale, Florida, United States, 14 August 2012. Speaker: Photodynamic Therapy To Enhance Fracture Healing MHSRS.


**Axelrod TS:** AO Trauma, AO Hand and Wrist Fracture Management Course, Beijing, Beijing, China, 10-12 September 2012. Visiting Professor: 1/ Wrist Arthrodesis. 2/ Percutaneous Fixation of Scaphoid Fractures. 3/ Fracture Fixation with Plates, including LCP for Hand Fractures.

**Axelrod TS:** AONA, AONA Hand and Wrist Fracture Management Workshop.

**Orange, California, United States, 17 November 2012. Facilitator:** Course Evaluator 

**Course Conflict Resolution Auditor.**


**Axelrod TS:** AO Trauma, Davos, Graubünden (de), Switzerland, 13 December 2012. Invited Speaker: Case Based lecture: Upper Extremity Mal-Union Complex Case Upper Extremity Mal-Union complex case.

**Axelrod TS:** AO Trauma Foundation, Boca Raton, Florida, United States, 12 January 2013. Invited Speaker: Scapular fractures: unsolved problem fractures AOTK working group Case based discussion of the anatomy and nature of scapula fractures. Discussion regarding indications for surgery and surgical approaches and fracture implants


**Axelrod TS:** AO Trauma North America, Caribbean Trauma Update. Rio Grande, Puerto Rico, United States, 17 February 2013. 1/ Invited Lecturer: Tips and Tricks for Orthopaedic Surgeons Forearm Fractures: What do I need to know? 2/ Facilitator: Tips and Tricks for Orthopaedic Surgeons Forearm Fractures: Lead Panel and Case Discussion. 3/ Invited Speaker: Tips and Tricks for Orthopaedic Surgeons Multiple case based discussions groups: Wound coverage; Elbow Fractures; Distal Radius fractures; Carpal Injuries; Foot Trauma.


Kreder HJ: Orthopaedic Trauma Association (OTA), Minneapolis, Minnesota, United States, October 2012. Invited Speaker: 1/ Periprosthetic Fractures. 2/ Type B1 periprosthetic femur fractures: A principles based approach.


Kreder HJ: 2013 Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 21 June 2013. 1/ Moderator: Trauma Symposium: So I’ve fixed the fracture, now what? 2/ Invited Speaker: Trauma and Disability. 3/ Invited Speaker: Late career practice change: Can it be planned for?


Nam D: JOINTS Shoulder Meeting, Montreal, Quebec, Canada, 23 February 2013. Speaker: Shoulder imaging.


Nousiainen M: University of Calgary Department of Surgery Retreat on Surgical Education, Banff, Alberta, Canada, 26 April 2013. Invited Lecturer: Competency Based Medical Education surgical residency program – design and implementation.


Wadey VMR: Dewar Orthopaedic Society Annual Meeting, Toronto, Ontario, Canada, 28 September 2012. Invited Speaker: “MSK Education the past 10 years and challenges for the next decade”.

Wadey VMR: COA Symposium, Winnipeg, Manitoba, Canada, 20 June 2013. Invited Speaker: Fellowship Education: Curriculum in Orthopaedics at the Fellowship Level.


Yee A: SPIE Photonics West: BiOS, United States, 2 February 2013. Speaker: Photodynamic therapy as a local adjunct for the treatment of vertebral metastases Optics in Bone Surgery and Diagnostics, Bone Surgery and Ablation II.


Yee A: Canadian Spine Society, Mt. Tremblant, Quebec, Canada, 28 February 2013. Chair: CSS Fellowship Education Advisory Group Meeting Update on progress to date, publications, and materials develop regarding a nationally based education curriculum for spine surgery fellowship training in Canada.

Yee A: Ottawa Health Research Institute, Bone and the Oncologist New Updates, Ottawa, Ontario, Canada, 12 April 2013. Invited Lecturer: Theme: Survivorship, Plenary Lecture: Musculoskeletal and spine research update: a surgeon perspective.

Yee A: RNOH (Royal National Orthopaedic Hospital), Stanmore, MIddlesex, United Kingdom, 24 April 2013. Invited Lecturer: From the bench to the clinic - Translational Research Opportunities for the Treatment of Vertebral Metastases.


Yee A: Queen Elizabeth Hospital Birmingham / Royal Centre for Defence Medicine, University Hospitals Birmingham, NHS, Birmingham, Birmingham, United Kingdom, 29 April 2013. Invited Lecturer: Fellowship Training of the Future Spine Surgeon - Canadian Update and Educational Opportunities.

Yee A: Sheffield Teaching Hospitals, NHS, Sheffield, Sheffield, United Kingdom, 3 May 2013. Invited Lecturer: High sacrectomy in locally recurrent rectal carcinoma: Technical perspectives and patient outcomes.

Yee A: NHS, Northumberia, Northumberia/Newcastle, United Kingdom, 7 May 2013. Invited Lecturer: Targeting Versican in Cancer Immunotherapeutics and Translational Research Opportunities for the Treatment of Vertebral Metastases.

Yee A: Royal Victoria Infirmary, Newcastle, Newcastle, United Kingdom, 7 May 2013. Invited Lecturer: Management of Multilevel Spinal Fracture in Ankylosing Spondylitis.

Yee A: Glasgow Royal Infirmary, Glasgow, United Kingdom, 9 May 2013. Invited Lecturer: Management of Multilevel Spinal Fracture in Ankylosing Spondylitis.

Yee A: Golden Jubilee National Hospital (GJNH), University of Glasgow, Glasgow, United Kingdom, 10 May 2013. Invited Lecturer: Access to Care - Perspectives on Spine Health in the Province of Ontario.


Yee A: University of Cape Town, Cape Town, Western Cape, South Africa, 22 May 2013. Invited Lecturer: From the bench to the clinic - Opportunities for the treatment of Vertebral metastases.

Research and Investigations

All Arthroscopic or Mini-open Repair of a Rotator Cuff Tear. MacDermid JC. Holtby R, Razmjou H, JOINTS Canada: Canadian Institutes of Health Research (CIHR). ($608,555 2007 - present).


Complications and re-operation after tibial plateau fracture fixation in a large population cohort. Jenkinson RJ: Knowledge Translation Canada (KT Canada). ($30,000 2012 - 2013).


Early weight bearing and mobilization versus non-weight bearing and immobilization after ORIF of unstable ankle fractures: A pilot study. Jenkinson RJ, Dehghan N, Nauth A, Schemitsch E, Vicente M,


**Immediate weight-bearing versus non-weightbearing and immobilization after ORIF of unstable ankle fractures.** Dehghan N, Jenkinson RJ: Canadian Orthopaedic Trauma Society (COTS). ($6,000 2012 - 2014).


**Implications of pathological changes to bone material properties on the skeletal stability of the metastatic spine.** Whyne CM, Yee AJ, Willett T, Akens M, Barzda V, Boyd D, Grynpas M, Kiss A, Niebur G, Sone E: Canadian Institutes of Health Research (CIHR). ($100,000 2012 - 2013).


**Molecular Mechanisms in Fracture and Wound Healing.** Alman B, Nam D: Canadian Institutes of Health Research (CIHR). ($903,804 2013 - 2018).


**Multi-resolution modeling of thin bone structures in the human skeleton.** Whyne C: NSERC. ($245,000 2011 - 2015).


Photodynamic Therapy Treatment to Enhance Fracture Healing. Akens M, Whyne CM, Nam D, Wilson BC, Yee AJM: Congressionally Directed Medical Research Programs (CDMRP). ($100,000 2010 - 2012).


The role of the arms in reacting to sudden loss of balance: a pilot study to evaluate age-related changes. Maki BE, Prout E. Ontario Neurotrauma Foundation (ONF), Summer Internship Program. ($9000 2012)


Use of computer-based visual training to improve balance-recovery reactions in older adults: evaluation of a randomized controlled trial. Maki BE, McKay S: Ontario Neurotrauma Foundation (ONF), Summer Internship Program. ($12,000 2012).


Honours Received

Nam D: Master's Award: Frederick Banting and Charles Best Canada Graduate Scholarships Award, Dept of Surgery, Canadian Institutes of Health Research. 2012 - 2012.

Nam D: Howard Rosen Best Table Instructor Award:AO Basic Principles and Techniques of Operative Fracture Management, AO Trauma North America. 2012 - 2013.

Nam D: Excellence in Undergraduate Teaching, Dept of Surgery, Sunnybrook Health Sciences Centre, Department of Surgery. 2012.

Nam D: McMurrich Award: 2nd Prize poster presentation Gallie Day, Department of Surgery, University of Toronto. 2013

Nam D: Peters Boyd Academy Teaching Award Nominee, Dept of Surgery, Sunnybrook Health Sciences Centre. 2013.

Nousiainen M: 2013 Award for Excellence in Postgraduate Medical Education in the Development/Innovation category, Postgraduate Medical Education Office, University of Toronto, Toronto, Ontario, Canada. For work relating to curriculum development in Competency Based Curriculum, Division of Orthopaedic Surgery, University of Toronto. Mar 2013.

Nousiainen M: Inaugural Award for “Excellence in Innovation”, Association for Surgical Education, Orlando, Florida, United States. co-winner with Drs. Ranil Sonnadara, Oleg Safir, Lisa Sattherthwaite, Benjamin Alman, Peter Ferguson, William Kraemer and Richard Reznick, for work relating to development of the “Orthopaedic Bootcamp” module in the Competency Based Curriculum, Division of Orthopaedic Surgery, University of Toronto. Apr 2013.


Yee A: A Sunnybrook Moment of Service Excellence, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada. To honor my outstanding service and dedication to patients, presented by The Office of The Patient Experience. Sep 2012.

Yee A: 2013 American British Canadian (ABC) International Travelling Fellowship, American Orthopaedic Association / Canadian Orthopaedic Association. This is a competitive application to a very distinguished international orthopaedic travelling fellowship. The ABC Travelling Fellowship is an educational exchange shared by a group of young orthopaedic surgeons selected by the American, British, Canadian, New Zealand, Australian and South African orthopaedic associations. Apr 2013 - May 2013.
Division of Plastic and Reconstructive Surgery

Dr. O. Antonyshyn  Associate Professor
Dr. P. Binhammer  Assistant Professor (Division Head)
Dr. R. Cartotto  Associate Professor
Dr. M. Dibildox  Lecturer
Dr. J. Fialkov  Assistant Professor
Dr. M. Gomez  Assistant Professor
Dr. M. Jeschke  Associate Professor
Dr. J. Lipa  Associate Professor
Dr. S. Shahrokhi  Lecturer

Publications


Research and Investigations


Queen's University, John F. Sparks Memorial Studentship (Summer Research). Cartotto RC, Li Zeyu. ($5,000 2013 - 2013). [Grants]

Honours and Awards

Cartotto R: American Burn Association, Chicago, Illinois. Chair, American Burn Association (ABA) Research Committee, This appointment includes membership on the ABA's Burn Science Adviser Panel which reviews grants and monitors multi-centre Trial progress under the auspices of the ABA currently involving 10 studies and over $20M in funding. 2012 - present.

Gomez M: Second Prize for Best Poster Presentation, Ontario Physiotherapy Association InterACTION conference, Niagara Falls, Ontario, Canada. Co-Principal Author. 2013

Division of Urology

Dr. L. Carr Associate Professor
Dr. S. Herschorn Professor
Dr. L. Klotz Professor
Dr. R. Kodama Professor (Division Head)
Dr. R. Nam Associate Professor
Dr. V. Venkateswaran Associate Professor

Publications


INVITED LECTURES

Klotz L: International Society of Young Urologists, Japan, 30 September 2012. Distinguished Speaker: How should young urologists prepare to treat prostate cancer in the future?

Klotz L: Young Urologic Oncologists Association, Bethesda, Maryland, United States, 28 November 2012. Distinguished Speaker: Gleason pattern 3 is not cancer ‘Presidential Debate’.


Klotz L: Brazilian Society of Urologic Oncology, Sao Paolo, Sao Paulo, Brazil, 28 February 2013. Invited Speaker: Brazilian Uro Oncology Conference 3 day conference; 6 talks.
Klotz L: Mayo Clinic, Rochester, Minnesota, United States, 22 March 2013. Visiting Professor.
Klotz L: AUA, San Diego, California, United States, 3 May 2013. Chair: AUA Course on Active Surveillance.
Klotz L: Korean American Urological Society, San Diego, California, United States, 5 May 2013. Distinguished Speaker: Screening for Prostate Cancer: A path forward.
Klotz L: The Endocrine Society, San Diego, California, United States, 6 May 2013. Invited Speaker: Active surveillance vs Radical prostatectomy Debate.
Nam RK: World Urologic Oncology Federation, Fukuoka, Hukuoka [Fukuoka], Japan, 30 September 2012. Invited Speaker: Genetic Biomarkers in Prostate Cancer.
Nam RK: GU Radiation Oncologists of Canada, Toronto, Ontario, Canada, 19 November 2012. Invited Speaker: 1/ How have PIVOT and Swedish study changed my management of low and intermediate risk disease. 2/ Which patients should be selected for upfront radical prostatectomy.
Nam RK: University of Athens, Athens, Greece, 28 June 2013. Invited Speaker: Prostate Cancer Screening and Biomarkers.
Venkateswaran V: Shandong University School of Medicine, Jinan, Shandong, China, November 2012. Visiting Professor: Diet, Lifestyle and Prostate Cancer: Mechanisms of action and implications for chemoprevention.

Research and Investigations

A phase III, randomized, mutlicentre efficacy and safety study comparing 10 months versus 4 months of degarelix therapy in prolonging the off treatment interval in men with non-metastatic prostate cancer receiving intermittent androgen deprivation therapy for biochemical progression. Ferring Pharmaceuticals Inc. Klotz L. ($1,262,636 2011 - 2016).
Summer Undergraduate Research Award. Principal Investigator(s): Venkateswaran V. Merck Inc, Summer Undergraduate Research Award. ($7,500 2013).
Honours Received


Klotz L: Honourary Director, Prostate Cancer Canada. non-voting member and serve in an advisory capacity to the Board. Nov 2012 - Nov 2013.

1. Nam RK: Faculty Postgraduate Teach Award Surgical, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Jun 2013.
Our department had a change in leadership with Dr. Laura Tate completing her mandate as Chief of Surgery in July 2012. She will continue to provide insight and leadership as a member of the Department and we are very grateful for the leadership Laura has provided over the course of her term. I proudly assumed the role and responsibility of Chief of this Department and I am looking forward to the challenging times that lie ahead.

Our department vision is simple. We want Toronto East General Hospital (TEGH) to be the best place for our patients, our friends and our family to get surgical care. If we cannot provide the best care, we will seek out partnerships that will ensure our patients get the care they need and deserve. We want TEGH to be the best place for a community surgeon to work in Toronto.

The TEGH Department of Surgery is a very popular destination for learners of all levels. The Department accepts medical students, surgical residents, family medicine residents, internal medicine residents, and surgical fellows from within Canada and internationally. The Department teaching effectiveness score (TES) for clinical fellows for 2012 was 19.24, the 2nd highest in all teaching hospitals in Toronto. A total of 21 of the 24 active staff in our department have university appointments and 20 of the 24 active staff include teaching residents as part of their daily routine.

Dr. Paul Bernick and Dr. Marcus Law have successfully created a computer-based orientation e-module on the TEGH website for all general surgery and off-service resident trainees. The Division of General Surgery is also recognized as leaders in resident and fellow education. The Division is taking more medical students, residents and fellows in 2013 than ever before.

Dr. Robert Zeldin has developed a core thoracic surgery rotation for PGY3 general surgery University of Toronto residents as a pilot project. TEGH Department of Anesthesia has also established a core thoracic anesthesia rotation for PGY5 anesthesia residents – an excellent example of the collaborative spirit of our Health Service members.

Dr. Atul Kesarwani is involved in the Aesthetic Surgery Resident Teaching Program at Women’s College Hospital. Dr. Jamie Cyriac sits on the Postgraduate Education Committee for General Surgery, Dr. Paul Wong sits on the Postgraduate Resident Committee for Orthopedics and Dr. Najib Safieddine sits on the Postgraduate Education Committee for Thoracic Surgery. Dr. Brett Beber is the Resident Wellness Director at the University of Toronto Division of Plastic Surgery. Dr. Rajiv Singal leads the fellowship in Endourology and GU MIS. Dr. P. Bernick leads the fellowship in Community General Surgery.

The Department of Surgery at TEGH has 4 core divisions, a shared division of critical care and a dentistry program. This past year has been a very active year for all divisions.

The Division of Urology continues to grow its robotic prostate surgery program with a partnership with Sunnybrook Health Sciences Centre. Dr. Rajiv Singal helped orchestrate a unique surgical partnership that will hopefully serve as a template for future inter-hospital collaborations within Ontario. Dr. S. Herschorn and Dr. L. Klotz are both senior staff urologists from Sunnybrook Health Sciences Centre and are now cross-appointed at
TEGH in order to perform robotic prostatectomies at our organization. Rajiv completed his term as Head of the Division of Urology providing 11 years of strong, consistent leadership. He has thankfully accepted the role as Clinical Lead for the Surgical Robotic Program. Dr. John Kell now assumes the role of Head of the Division of Urology.

The Division of General Surgery is recognized as a leader in education. Dr. Paul Bernick is the Head of the Division and continues to support the strong education mandate of the Division. Dr. Jamie Cyriac and Dr. Mary-Anne Aarts have been instrumental in the growth of our bariatric surgery program. Dr. Aarts is our site lead for implementation of BPIGS and has been instrumental in advancing the patient safety agenda in our Department. Under the leadership of Dr. Robert Zeldin our Level I thoracic surgery program continues to grow and continues to provide service at multiple sites - the Odette Cancer Centre at Sunnybrook Health Sciences Centre, North York General Hospital and Royal Victoria Hospital in Barrie.

The Division of Plastic and Reconstructive Surgery under the leadership of Dr. Linda Dvali has developed a hand surgery and peripheral nerve program unique to a community hospital. Dr. Brett Beber is the Resident Wellness Director at the University of Toronto and is cross-appointed at Women’s College Hospital. Dr. Laura Tate is expanding her clinical practice now that her term as Surgeon-in-Chief has ended. Her focus, along with Dr. Atul Kesarwani, is on body contouring surgery for patients undergoing bariatric surgery with resulting massive weight-loss.

The Division of Orthopedic Surgery continues to demonstrate leadership in education and value for service. The division, under the leadership of Dr. Weiler, is a leader in resident satisfaction and clinical fellow satisfaction. The Division is constantly looking for ways to improve the learner experience and continues to lead the way in our department in standardizing equipment and techniques thereby realizing substantial cost saving for our Health Service.

### Division of General Surgery

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<tr>
<th>Name</th>
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<tr>
<td>Dr. M.A. Aarts</td>
<td>Assistant Professor</td>
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<td>Dr. P.E. Bernick</td>
<td>Assistant Professor (Division Head)</td>
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<td>Dr. J. Cyriac</td>
<td>Lecturer</td>
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<td>Dr. T. Gilas</td>
<td>Assistant Professor</td>
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<td>Dr. N. Safieddine</td>
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<td>Dr. H. Sawires</td>
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<td>Dr. C. Simone</td>
<td>Lecturer</td>
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<tr>
<td>Dr. R. Zeldin</td>
<td>Associate Professor</td>
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### Publications


### Invited Visits


**Simone, C:** The Ontario Lung Association, Barrie, ON, Nov. 30, 2012. “Surgical treatment of lung cancer”

**Simone, C:** Target Insight VII, Toronto, ON, April 14, 2013. “Surgical management of endobronchial metastatic disease”.

**Zeldin R:** Canada-Japan Lung Cancer Symposium (Pfizer), Toronto, ON Apr. 1, 2013. “The Role of Surgery in Early to Late Non-Small Cell Lung Cancer.”

### Honours Received

**Aarts MA:** Robert Fowler Award for Excellence in Resident Teaching, Toronto East General Hospital, University of Toronto, June 2012
Division of Orthopaedics

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

Division of Plastic and Reconstructive Surgery

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

PUBLICATIONS:


Research and Investigations


Honours Received

Beber B: The Arnis Freiberg Teaching Award, 2013 Division of Plastic Surgery Teacher of the Year Award
Division of Urology

Dr. R. Groll   Lecturer
Dr. J. Kell
Dr. R.K. Singal Assistant Professor (Division Head)
Dr. P. Vlaovic   Lecturer

Publications


Chapter in Patient Education Book. Surgical Treatment of Kidney Stones. Singal RK. Canadian Urological Association. Published June 2013

Honours Received

Singal RK: Mark Dailey Prostate Cancer Local Hero Award 2013. Awarded by Prostate Cancer Canada. April 2013
The Division of Cardiovascular Surgery at the Peter Munk Cardiac Center welcomed the recruitment of Dr. Maral Ouzounian. Dr. Ouzounian completed advanced training in the surgical management of aortic disease at the Texas Heart Center in Houston and joins a multidisciplinary team that now offers the full breadth of open and endovascular options for patients with thoracic aortic disease. The Advanced Heart Failure and LVAD team were certified as a North American Training site for the HeartMate 2 ventricular assist device and will take a leading role in the introduction of the next generation mechanical heart technology. Dr. R.J. Cusimano added to his already impressive teaching resume by winning the Department’s Bruce Tovee Undergraduate Teaching Award. The Division continues to enjoy the support of four endowed chairs courtesy of the Munk and DeGasperis families and is actively recruiting surgeons to expand our clinical programs in minimally invasive valvular surgery and the surgical management of arrhythmias. The Division’s basic science efforts are strongly represented by Drs. RenKe Li, Richard Weisel and Terry Yau in the field of regenerative medicine and a new initiative in the epigenetics of acquired and hereditary aortic disease under the leadership of Drs. Tirone David and Maral Ouzounian. Several members of the Division serve in key administrative roles including the Provincial Chair of Cardiac Surgery for the Cardiovascular Care Network (Dr. Chris Feindel), Chair of the Physician Payment Review Board (Dr. Vivek Rao) and a director for cardiac transplantation for the Trillium Gift of Life Network (Dr. Vivek Rao). Dr. Hugh Scully serves as a representative on the Board of Governors for the American College of Surgeons. Members of the Division continue to be frequent invited lecturers around the world, further enhancing our reputation as an innovative and world-class institution for the treatment of acquired and congenital heart disease.
The Division of General Surgery hosted 3 named Lectures and in the past academic year, Dr. Richard Reznick, a former member of the Division of General Surgery and present Dean of the Faculty of Health Science at Queen’s University, delivered the Division of General Surgery and Canadian Association of General Surgeons Langer Lecturer in September, 2012. Dr. Quan-Yang Duh, from the University of California San Francisco was the John Palmer Lecturer in April, 2013. The Peter Crossgrove Lecture was presented by Dr. Jeffrey Matthews, Chair, Department of Surgery at the University of Chicago. A highlight in the academic activities of the Division this year was the Hepatobiliary Reunion honouring Dr. Bernard Langer. Some 55 HPB surgeons who trained at UHN and University of Toronto, returned to attend a day of academic presentations and a gala event honouring Bernard Langer’s impact in hepatobiliary surgery. A number of Faculty members were recipients of prestigious awards; Paul Greig was honoured with the University of Toronto Award for Excellence in Medical Education for Teaching Performance Mentorship and Advocacy; Carol-Anne Moulton was honoured with the 2013 PAIRO Excellence in Clinical Teaching Award. David Urbach was awarded a James IV Travelling Fellowship in Surgery.

Anand Ghanekar was promoted to Assistant Professor and Alice Wei was promoted to Associate Professor. The Division welcomed a new Faculty member, Karen Devon, a Toronto trained Endocrine surgeon, who had recently completed a fellowship at the University of Chicago. Fayez Quereshy was selected as the Assistant Program Director for Surgical Oncology.

Faculty members were very successful with Grant capture: Carol-Anne Moulton was award a Medical Council of Canada Grant (MCC) for her project on Assessment of Judgement in Practice; Michael Reedijk was awarded a Canadian Breast Cancer Foundation Grant: Establishing TRB3 as a therapeutic target in breast cancer and a Susan G. Komen for the Cure Grant Project - The role of Notch in breast cancer microenvironment crosstalk. Steven Gallinger was awarded a Canadian Institutes of Health Research Grant for his project Long-term Physical and Psychological Outcomes in Colorectal Cancer Survivors; a W. Garfield Weston Foundation Grant – Identifying Inherited Pancreas Cancer Genes and a Terry Fox Research Institute Grant – Pan-Canadian Colorectal Cancer Consortium; a Canadian Institutes of Health Grant - The genetics of hereditary upper gastrointestinal cancers: beyond CDH. Fayez Quereshy received a MSH-UHN AMO Innovation Fund, Ministry of Health Grant - Programmatic Redesign: Realigning Health Resources using Mathematical Modeling in the UHN Bariatric Multidisciplinary Program. Alice Wei was awarded a Canadian Cancer Society Research Institute Grant – Bringing evidence to the bedside: Implementing an evidence based clinical pathway for patients undergoing pancreatic cancer surgery and a Canadian Institutes of Health Research Grant; Initiating a national quality agenda in hepato-pancreato-biliary surgery: how should we improve the processes of surgical care? Mark Cattral was awarded a Canadian Institutes of Health Research Grant; Investigation of Dendritic Cell De-differentiation in Cancer.

The Division of Neurosurgery began the academic year with Dr. Michael Tymianski being selected as the Head of the Division. Over the subsequent 12 months, the Division recruited 4 new surgeons: Dr. Ivan Radovanovic (Neurovascular), Dr. Mohammad Shamji (Spine), Dr. Paul Kongkhom (Neuro-oncology), and Dr. Suneil Kalia (Functional Neurosurgery). Each was hired as a surgeon-scientist. Several members of the Division have received international awards: the 2013 Humanitarian Award of the AANS (Dr. Mark Bernstein); the Margolese National Brain Disorders prize from the University of British Columbia (Dr. Andres Lozano); the Jonas Salk Award and the Richard Winn award for excellence in translational neuroscience research and the Queen Elizabeth Diamond Jubilee Award for significant contributions to Canadian society in science and medicine (Dr. Michael Fehlings); the Society of Neuro-oncology Excellence in Translation Research award (Dr. Gelareh Zadeh); Lumbar Spine Research Society basic science award (Dr. Mohammad Shamji). Division members also published ground-breaking research, including the world’s first positive randomized controlled trial of a stroke neuroprotectant (Tymianski; Lancet Neurology 2012); the world’s first report of treatment of Anorexia Nervosa with Deep Brain Stimulation (Lozano; Lancet 2013) and the world’s first report of transcranial magnetic resonance guided focused ultrasound to treat tremor (Lozano; Lancet Neurology 2013). Dr Fehlings is leading a major multicentre, international randomized clinical trial (RISCIS) examining the potential neuroprotective role of a sodium-glutamate antagonist (riluzole) on acute traumatic spinal cord injury. Dr. Tymianski is leading a phase 3 multicenter trial of NA-1, a stroke neuroprotectant discovered in his academic lab (the
FRONTIER trial), examining the role of NA-1 in reducing stroke damage. Several Division members have received new grants, including Dr. Hodaie (5 yr CIHR and 3yr MS Society grants); Dr. Shamji (AO Spine NA Young Investigator Grant); Dr. Zadeh (2 CIHR grants and a Terry Fox New Investigator Award). Drs. Zadeh and Radovanovic have put together 2 courses: The Lougheed Microsurgical Course (Radovanovic), and the first resident dedicated Endonasal Endoscopy Cadaver Course (Zadeh). Dr. Hodaie was the Scientific program co-chair of the World Society of Stereotactic and Functional Neurosurgery meeting, Tokyo May 2013. The Division of neurosurgery as a whole continues to be a leader in UHN Surgery in grant capture and research productivity.

**Division Of Orthopedic Surgery**

R. Davey, MD  W. Marshall, MD  
J. Chahal, MD  D. Ogilvie-Harris, MD  
R. Gandhi, MD  R. Rampersaud, MD  
J. Lau, MD  K. Syed, MD  
S. Lewis, MD  C. Veillette, MD  
N. Mahomed, MD  A. Veljkovic, MD

In the last twelve months Orthopaedics has had many successes in the areas of recruitment, research and education. We recruited two new surgeons: Dr. Jas Chahal a sports/MIS surgeon focusing on shoulder and knee surgery. Jas has a combined appointment between UHN and Women's College Hospital. Dr. Andie Veljkovic is our new foot and ankle surgeon who will focus on complex MIS surgery. Andie’s research focus will be in clinical epidemiology. Under the leadership of Dr. Wayne Marshall we established the Osteoarthritis Research Program. The OA program has three main areas of focus: regenerative medicine for OA, inflammatory OA and metabolic syndrome, and clinical outcomes / predictors of response to therapy. The OA Program is supported by the Campaign to Cure Arthritis, which has raised approximately $30 million in the last 18 months. The OA program has established an external international Academic Advisory Board to review the research program. The AAB meets quarterly with an annual September meeting in Toronto. Dr. Raj Rampersaud received a $2.8 million grant from the Ministry of Health and Long Term Care to establish and evaluate to benefit of a new spine model of care across the province. Dr. Christian Veillette has developed DADOS, a new IT platform for collecting point of care data and integrating it with other systems within UHN. Christian is working with TECHNA to further enhance and commercialize this new IT platform. Dr. Ogilvie-Harris has developed a competency based education curriculum for the U of T sports medicine program. This is now a standard training module for all U of T Orthopaedic residents.

**Division Of Plastic Surgery**

J. Ahmad, MD  S. McCabe, MD  
D. Anastakis, MD  A. O’Neill, MD  
P. Bray, MD  H. Von Schroeder, MD  
B. Graham, MD  T. Zhong, MD  
S. Hofer, MD

The UHN Division of Plastic & Reconstructive Surgery welcomed Dr. Steven J. McCabe as the Director of the Hand Program at the Toronto Western Hospital. Dr. McCabe’s goals are to transform the Hand Program into a University wide collaborative group, to develop a program in hand transplantation, and to invigorate the academic activities of the Hand Program. The Division also successfully recruited Dr. Anne O’Neill, as an academic Plastic Surgeon following her successful completion of the microsurgery fellowship program. Dr. O’Neill joins a reconstructive microsurgical team that offers the full range of complex, microsurgical breast, head and neck and sarcoma reconstruction.

The University of Toronto Hand Program held the 11th Annual Ralph T. Manktelow Hand Symposium with Dr. Scott Levin, MD, FACS, Paul B. Magnuson Professor of Bone and Joint Surgery, Department of Orthopaedic Surgery, Division of Plastic Surgery, Philadelphia as the Keynote speaker. Dr. Gregory Evans, MD, FACS, Professor of Surgery and Biomedical Engineering, The University of California and President of the American Society of Plastic Surgeons was the Guest Speaker at Professors Rounds this year. Dr. Hofer was promoted to Full Professor in the Department of Surgery and Dr. Toni Zhong added to her already impressive research teaching resume by winning the Division’s 2013 William K. Lindsay Faculty Research Mentor Award. The Division continues to enjoy the support of two endowed chairs courtesy of the Wharton and Stronach contributions and continues to attract world class surgeons to the microsurgical and breast reconstruction fellowship programs.

The Division’s residents continue to attain the highest academic achievements. Dr. Siba Haykal supervised by Drs. Hofer and Waddell (Thoracic Surgery) successfully obtained a number of highly competitive research awards and defended her PhD thesis in the Surgeon Scientist Program. Dr. Jennica Platt supervised by Dr. Zhong successfully obtained numerous, prestigious resident research awards and received her MSc degree in the same program. Dr. Amanda Roberts supervised by Dr. Zhong received a Fellowship Award from the Canadian Breast Cancer Foundation. UHN was well represented at the Division Research Day with 6 resident research presentations. Dr. Olivia Ho supervised by Dr. Hofer was awarded the Best Microsurgery Research Presentation of GAM at the 67th Annual Meeting of the Canadian Society of Plastic Surgeons.

Basic science efforts are ongoing in the field of Allotransplantation Research, hypoxia/ reoxygenation protection
of muscle tissue and a new initiative in the area of Vascularized Composite Allotransplantation (VCA). Several members of the Division serve in key administrative roles including Dr. Zhong as the clinical and breast reconstruction fellowship director. Dr. Hofer has been appointed to serve as the Editor-in-Chief for the Journal of Plastic, Reconstructive and Aesthetic Surgery for a second term. Members of the Division continue to publish widely in high impact, peer-reviewed journals and to be frequent invited lecturers and visiting professors internationally, further enhancing our reputation as an innovative and world-class institution for the management of complex microsurgical reconstruction cases.

**Division Of Thoracic Surgery**

M. Cypel, MD  
G. Darling, MD  
M. de Perrot, MD  
S. Keshavjee, MD

A. Pierre, MD  
T. Waddell, MD  
K. Yasufuku, MD

New programs that have been initiated by the Division of Thoracic Surgery are the Joint Program in Benign Esophageal Disease, led by Dr. Gail Darling as a combined monthly clinic with GI Medicine and General Surgery. This program also features monthly rounds for interesting case discussion. Dr. Darling has also led the implementation of ejuvination of the Esophageal Multidisciplinary Cancer Conference to focus more attention on this important area of Thoracic Surgery.

Dr. Marcelo Cypel was awarded a Canada Research Chair in Lung Transplantation. Notably, Dr. Cypel was invited speaker to 7 International meetings, which is remarkable at such an early stage of his career. Dr. Gail Darling was inducted into the American Surgical Association. Dr. Shaf Keshavjee was awarded two Queen Elizabeth II Diamond Jubilee Medals and was named to the Order of Ontario recognizing his many contributions in lung transplantation, thoracic surgery, and surgical leadership. Dr. Tom Waddell was appointed Chair of the American Association for Thoracic Surgery Research Committee and was inducted into the American Surgical Association. Dr. Yasufuku was promoted to Associate Professor at the University of Toronto in 2013. The annual EBUS Training Course was again hosted by Dr. Kazuhiro Yasufuku, who also led or participated in other hands-on courses at the Lahey Clinic, the Brigham and Women’s Hospital in Boston, in Salvador, Brazil, and at the MD Anderson Cancer Center in Houston.

The Division of Thoracic Surgery was honoured with 2 clinical fellows supported by national or International competitive awards. Dr. Stephane Collaud (Graham Fellow of the American Association for Thoracic Surgery) and Dr. Kasia Czarnecka (Cameron Gray Fellowship). Teaching awards were awarded to Dr. Tom Waddell (Ross Fleming Surgical Educator Award (UHN)), Dr. Gail Darling (Gail E. Darling Award for Excellence in Undergraduate Teaching and Dr. Kazuhiro Yasufuku (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching).

Visiting Professors for 2012-13 academic year were: Dr. Alessandro Brunelli (University of Ancona, Italy), Dr. Brian Louie (Swedish Cancer Center, Seattle), and Dr. Ara Vaporiyan (MD Anderson Cancer Center, Houston). Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2012 and included the following Visiting Faculty: Philippe Dartevelle (Mairie-Lannelongue, Paris), Scott Swanson (Brigham, Boston), Wayne Hofstetter (MD Anderson, Houston) and Lorenzo Ferri (McGill, Montreal). The academic year concluded with Pearson Day, an annual celebration of clinical and laboratory research by trainees in our Division. The Pearson Day Visiting Professor was Dr. Richard Finley from Vancouver.

**Division Of Urology**

A. Finelli, MD  
N. Fleshner, MD  
M. Hassouna, MD  
R. Hamilton, MD  
M. Jewett, MD

G. Kulkarni, MD  
S. Radomski, MD  
M. Robinette, MD  
J. Trachtenberg, MD

This year was a banner year for the Division of Urology at UHN. First, we welcomed a new attending uro-oncologic surgeon, Dr Robert Hamilton. In addition, Dr Fleshner was named as University Division Chair last summer. Academically, the Division of Urology published over 50 peer-reviewed manuscripts including Journals such as Journal of the National Cancer Institute, and Journal of Clinical Oncology. Peer reviewed grant capture was solid with over 3 million dollars of secured funding. Clinically, our robotics program has flourished and Dr Finelli led a meeting on Robotic Surgery to address strategies for implementation in Ontario and nationally. Our annual Uro-Oncology Dialogue conference hit new heights with almost 100 attendees. Visiting professors included Dr Marsden Linehan (NIH) and Dr Joel Nelson (University of Pittsburgh).

**Division Of Vascular Surgery**

W. Johnston, MD  
T. Lindsay, MD  
G. Oreopoulos, MD  
G. Roche-Nagle, MD

B. Rubin, MD  
L. Tse, MD  
D. Wooster, MD

The past academic year in the Division of Vascular Surgery at UHN has been highlighted by accomplishments in the areas of Quality Improvement, presentations at national and international meetings and continued innovation in the field of endovascular aneurysm repair. Currently UHN is the only Canadian site and the only site outside of the USA to be participating in the Society for Vascular
Surgery’s Vascular Quality Initiative (VQI). The prospective data collection has demonstrated that Vascular surgery outcomes, in terms of mortality and morbidity are equal or exceed those of the VQI group. The Division has used the data to identify areas for improvement such as routine EVAR length of stay. Improvements have resulted in significant hospital savings. In addition Dr Roche-Nagle has participated in new module development with the VQI leadership, in the area of advanced endovascular aneurysm interventions.

The Division was awarded two student research awards, the Cook and Sigvaris awards from the Canadian Society for Vascular Surgery in 2012. Dr Ahmed Kayssi presented at the Society for Vascular Surgery annual meeting on management of acute limb ischemia in the pediatric population supervised by Dr Barry Rubin. The Division’s continued innovation in EVAR is exemplified by the use of many different devices to repair of all types of aortic aneurysms. Dr Leonard Tse was the first to use the Anaconda fenestrated cuff and is the North American proctor for this new EVAR device. Dr. Johnston developed the new content of the premier vascular surgery text book (Rutherford’s Vascular Surgery), co-editing the chapters, and organized the electronic output for computers and e-books. In addition he received the Pioneers in Gore Performance Award for commitment to ongoing learning. This award, recognizes “physicians around the world for their unrelenting dedication to advancing vascular and endovascular therapy and improving patient and clinical performance”. Dr Rubin received a new CHIR grant, published in Circulation and Nature. His new administrative activities included the chairmanship of the expert panel on Utilization of Diagnostic and Imaging Studies for the MOHLTC.

Division of Cardiac Surgery

Dr. S. Brister  Associate Professor
Dr. R. Cusimano  Associate Professor
Dr. T. David  Professor
Dr. C. Feindel  Professor
Dr. R-K Li  Professor

Dr. A. Ralph-Edwards  Lecturer
Dr. V. Rao  Professor (Division Head)
Dr. R. Weisel  Professor
Dr. T. Yau  Professor

Publications


Yau TM, Zhang T. In patients with coronary artery disease and heart failure, the addition of coronary-artery bypass grafting to medical therapy has no effect on the overall risk of death from any cause, but assessment of suitability for surgery may predict survival benefit in subgroups. Evid Based Med. 2012 Dec;17(6):178-9.

Invited Visits

Cusimano R: 1st Affiliated Hospital, Weihui City, Xinjiang, China, 17-23 November 2012. Invited Lecturer: 1/ Considerations in Aortic Valve Disease. 2/ Evaluation of the post Cardiac Surgical Patient. 3/ Cardiac Surgical Training in Toronto.


David TE: 9th Current Trends in Aortic and Cardiovascular Surgery and Interventions - Texas Heart Institute, Houston, Texas, United States, 26 April 2013. Invited Speaker: Advanced Techniques for Leaflet Repair in Aortic Valve Procedures.

David TE: 93rd Annual Meeting of the American Association for Thoracic Surgery - Postgraduate Course, Minneapolis, Minnesota, United States, 2-5 May 2013. Invited Speaker: 1/ Infective endocarditis: when to repair vs. replace the aortic valve and root. 2/ Failed mitral valve prosthesis: lessons from the the operating room. 3/ How to Handle Complex Annular Lesions. 4/ Long Term Outcomes in Degenerative Mitral Repair. 5/ 50 Year Old Male Patient With Complex Pathology, Severe MR.

Feindel C: Michigan Society of Thoracic and Cardiovascular Surgery, Traverse City, Michigan, United States, 3 August 2012. Invited Speaker: Canadian Health Care: Facts and Myths.

Feindel C: Canadian Cardiovascular Society, Toronto, Ontario, Canada, 30 October 2012. Distinguished Speaker: 29th Bigelow Lecture: To be or not to be a cardiac surgeon. That is the question.

Li R-K: American Heart Association, Scientific Sessions 2012, Los Angeles, California, United States, 3 – 7 November 2012. 1/ Invited Speaker: Allogeneic stem cells improve heart function but are rejected when they differentiate. 2/ Chair: Cell, tissue engineering and gene-based therapies IV.


Li R-K: International Workshop on Stem Cell Differentiation: The Influence of Biomaterials and Biomechanics, Shanghai, China, 3 June 2013. 1/ Invited Speaker: Engineered myocardial milieu for aged cell rejuvenation. 2/ Chair: Biomaterials.

Li R-K: International Conference on Regenerative Biomedical Materials, Wuhan, China, 4 June 2013. Chair: Regenerative materials for bone and cartilage.
Rao V: CorMatrix Cardiovascular, Inc., Laguna Beach, California, United States, 21 September 2012. CorMatrix Extracellular Matrix for Cardiovascular Repair: Speaker: The Toronto General Experience.


Rao V: Emory University Department of Surgery Annual Research Day, Atlanta, Georgia, United States, 4 April 2013. Speaker: Innovation in Cardiac Surgery.

Weisel R: Canadian Cardiovascular Society Trainee Day, Toronto, Ontario, Canada, 27 October 2012. Invited Lecturer: Cardiac regeneration with stem cells.


Weisel R: American Heart Association, Los Angeles, California, United States, 4 - 6 November 2012. Facilitator: 1/ Telling stem cells what to do. 2/ Genetic and epigenetic programming.


Weisel R: American Association for Thoracic Surgeons, Minneapolis, Minnesota, United States, 5 April 2013. Presenter: Discussion of paper: Cardiac progenitor cells in patients with hypoplastic left heart syndrome.

Weisel R: Annual Meeting of the Canadian Society of Clinical Perfusion, Quebec City, Quebec, Canada, 25 May 2013. Invited Speaker: The evolution of cardioplegia techniques at the Toronto General Hospital.


Research and Investigations

Acaesine to reduce perioperative ischemic injury, the RED-CABG Trial. (Executive and Publications Committee). Schering-Plough Research. Yau TM. ($20,000 2009 - 2013).


Aortic and Valve Laboratory. David T, Li R-K: Rossy Foundation. ($250,000 2012 - 2018).


Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. Li R-K: Canadian Institutes of Health Research (CIHR). ($698,984 20010 – 2015).


The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates. Fredericks SM, Yau TM: Canadian Institutes of Health Research (CIHR). ($160,000 2012 - 2013).


Honours Received

David TE: Honourary member, Society for Cardiothoracic Surgery in Great Britain and Ireland. 2013
David TE: Honourary member, Society of Cardiology of State of Rio de Janeiro. 2013
David TE: National Academy of Medicine, Rio de Janeiro, Brazil. Honourary member. Apr 2013

Division of General Surgery

Dr. M.S. Cattral Professor
Dr. S.P. Cleary Assistant Professor
Dr. J. Escallon Associate Professor
Dr. A. Gagliardi Associate Professor
Dr. S. Gallinger Professor
Dr. A. Ghanebak Lecturer
Dr. D. Grant Professor
Dr. P. Greig Professor
Dr. T. Jackson Assistant Professor
Dr. W.L. Leong Assistant Professor

Dr. D. McCready Professor
Dr. I. McGilvray Associate Professor
Dr. C.A. Moulton Assistant Professor
Dr. A. Okrainec Assistant Professor
Dr. F.A. Quereshy
Dr. M. Reedijk Associate Professor
Dr. L.E. Rotstein Professor (Division Head)
Dr. M. Selzner Assistant Professor
Dr. R.D. Urbach Professor
Dr. A. Wei Assistant Professor

Publications


**Invited Visits**

**Cleary SP:** Canadian Surgical Forum, Calgary, Alberta, Canada, September 2012. Speaker: Pancreatic Masses. CAGS Review course in General Surgery.

**Cleary SP:** CTV AM, 30 May 2013. “Liver cancer”.

**Cleary SP:** CTV Newsnet, 30 May 2013. “Liver cancer rates on the rise”.

**Cleary SP:** Global News, 30 May 2013. “Liver cancer steadily on the rise in Canada, report”.

**Cleary SP:** Canadian Press, 29 May 2013. “Liver cancer on rise, but half of cases preventable: Cancer Society”.

**Cleary SP:** Globe and Mail, 29 May 2013. Why fighting liver cancer remains an ‘uphill battle’.

**Cleary SP:** CTV National News, 29 May 2013. “Liver cancer rates on the rise in Canada, new stats reveal”.

**Cleary SP:** Digestive Diseases Week 2013, Orlando, Florida, United States, May 2013. Speaker: 1/ Management of Surgical Risk in Patients with Cirrhosis. 2/ SP Health Care Quality and Outcomes: If you cannot measure it, you cannot improve it - developing a qualitymetric for complex GI surgery.

**Escallon J:** Colombian Association of General Surgery, Cali, Valle del Cauca, Colombia, 20 August 2012. Distinguished Speaker: 1/ The future of Surgical Education Start a cooperation between Toronto and Colombia to develop creative ideas that will improve surgical education. 2/ Decision or Indecisions in the Management of Breast Cancer Symposium on Breast Cancer.


**Gagliardi A:** Royal College of Physicians and Surgeons of Canada Maintenance of Competence Strategic Planning Conference, Canada, 4 December 2012. Speaker: Review of strategy and support for performance assessment.

**Gagliardi A:** ARCC, Canada, January 2013. Speaker: Optimizing the development and use of guideline implementability tools.

**Gallinger S:** Goodman Cancer Research Centre Seminar series. McGill University, Montreal, Quebec, Canada, 10 October 2012. Invited Speaker: Unravelling the genetics of pancreas cancer.

**Gallinger S:** 16th Annual Meeting Collaborative Group of the Americas on Inherited Colorectal Cancer, Boston, Massachusetts, United States, 27 October 2012. Invited Lecturer: Surgical vs Endoscopic Management of Duodenal Disease in FAP.


**Gallinger S:** 8th NCRI Cancer Conference, Liverpool, United Kingdom, 4 November 2012. Invited Lecturer: Pancreas cancer genetics and the surgeon-should you care ?

**Gallinger S:** ASCO 2013 Annual Meeting, Chicago, IL, United States, 2 June 2013. Speaker: Building Bridges to Conquer Cancer “Hereditary Gastrointestinal Cancer Syndromes”.

**Ghanekar A:** American Society of Nephrology, San Diego, California, United States, 2 November 2012. Invited Speaker: Obesity and Kidney Transplant Assessment: A Surgical Perspective.

**Greig P:** ANZHPBA, Queensland, Australia, 4-7 November 2012. Invited Speaker: 1/ HPB training - America. 2/ Defining and assessing competence in open hepatic resection. 3/ Quality initiatives in Canadian HPB Surgery.

Greig P: AHPBA, Miami Beach, Florida, United States, 21 February 2013. Invited Lecturer: Optimal training in HPB Surgery: Surgical Oncology, Transplant, or HPB Surgery?


Jackson T: Canadian Association of Gastroenterology - Canadian Digestive Disease Week, Victoria, British Columbia, Canada, 1 March 2013. Speaker: Bariatric Surgery: Indications, Options and Outcomes.


Moulton C-A: Indiana University School of Medicine, 10 October 2012. Speaker: Surgical judgement: Beyond cognition Grand Rounds Lecture.


Moulton C-A: McMaster University, Faculty of Health Sciences, Hamilton, Ontario, Canada, 24 October 2012. Invited Speaker: Slowing down when you should.

Moulton C-A: Association of American Medical Colleges (AAMC), San Francisco, California, United States, 3 November 2012. Speaker: Promoting self-monitoring as a core competency: Current state of the research.

Moulton C-A: Southern Illinois University School of Medicine, 8 November 2012. Speaker: Peeking behind the curtain: Surgical judgment beyond cognition.

Moulton C-A: Americas Hepato Pancreate Billiary Association (AHPBA), Miami, Florida, United States, 21 February 2013. Speaker: 1/ Bernie Langer Fellow’s and Resident’s Symposium. 2/ Liver resection after downstaging chemotherapy in patients with initially unresectable colorectal liver metastases.

Moulton, Carol-anne Evelyn: McMaster University, Hamilton, Ontario, Canada, 27 February 2013. Invited Speaker: 1/ Peeking Behind the Curtain: Surgical Judgment Beyond Cognition Department of Surgery Senior Resident Session. 2/ Peeking Behind the Curtain: Surgical Judgment Beyond Cognition Department of Surgery Chair’s Grand Rounds.


Moulton C-A: Morristown Surgical Symposium Surgical Complications: How to Prevent Them and When to Ask for Help, Morristown, New Jersey, United States, 10 May 2013. Speaker: Behind the curtain: Surgical judgement beyond cognition.

Moulton C-A: Canadian Society of Plastic Surgeons, Calgary, Alberta, Canada, 31 May 2013. Speaker: Slowing down when you should: A model of expert surgical judgment.

Okrainec A: Muhimbili National Referral Hospital, Dar Es Salaam, Dar es Salaam, Tanzania, United Republic Of, 27 August 2012. Chair: SAGES Basic Laparoscopy Course.

Okrainec A: Canadian Association of General Surgeons, Canadian Surgical Forum, Calgary, Alberta, Canada, 14 September 2012. Chair: 1/ Post-Graduate Course: A Bariatric Primer for General Surgeons. 2/ Post-Graduate Course: Hernias and Abdominal Wall Reconstructions - What’s New in 2012. 3/ Debates in Minimally Invasive Surgery.


Penner T: Kidney Foundation Hospital, Dhaka, Bangladesh, 16 February 2013. Invited Speaker: Catheter Insertion in CAPD 1st Annual convention and Scientific seminar on CAPD.

Penner T: Swiss Course in Cancer Surgery, Biel, Aargau (de), Switzerland, 18 April 2013. Invited Speaker: Advantages of Laparoscopy in Colorectal Cancer Surgery Discuss advantages of laparoscopy to Swiss surgery oncology community.


Penner T: DaVita, Houston, Texas, United States, 6 May 2013. Invited Speaker: PD access Surgery - New and Improved Update to practicing surgeons.


Penner T: DaVita, Lufkin, Texas, United States, 7 May 2013. Invited Speaker: PD access Surgery - New and Improved.


Quereshy FA: Grand Rounds, Kuwait Cancer Control Centre, Kuwait, 10 February 2013. Robotic Colorectal Surgery: Advances in Surgical Oncology.

Quereshy FA: Colorectal Cancer Conference, Kuwait, 15 February 2013. To resect or not to resect: The Management of the Asymptomatic Primary in Stage IV Colorectal Cancer.


Reedijk M: Canadian Breast Cancer Symposium, Toronto, Ontario, Canada, 21 June 2013. Invited Speaker: How to reduce the number of positive margins.


Urbach DR: Congress for General surgery residents, General surgeon and Minimally Invasive Surgeons, Medellin, Magdalena, Colombia, 5 October 2012. Presenter: Achalasia and adrenalectomy.


Wei A: Journal Club of Chinatown Physicians, Toronto, Ontario, Canada, 12 August 2012. Speaker: Diagnosis and Treatment of Pancreatic Tumours.


Wei A: Great Debates & Updates in GI Malignancies, New York City, New York, United States, 5-6 April 2013. Speaker: 1/ Management of liver metastases in Colorectal Cancer. 2/ Pancreatic Cancer: A surgeons definition of respectability.


Research and Investigations


A Phase II study of Perioperative Chemotherapy plus Panitumimab in Patients with Colorectal Cancer Liver metastases. Cleary SP, Welch S, Malcolm M: Amgen Canada Inc (Mississauga, ON). (Sep 2010 - present).


Barriers to the Uptake of Surgical Telementoring: The perspectives of Canadian general surgeons. Okrainec A, Sockalingam S, Jackson T, Quereshy F. University of Toronto, Continuing Education Research and Development Award. ($4,698 2013).


Early Researcher Award. Moulton CA: Ministry of Research and Innovation (MRI) (Ontario). ($140,000 2011 - 2016).


Failing to slow down when you should. Moulton CA, Gallinger S, Martimianakis MA, Leung A: Royal College of Surgeons, Medical Education Research Grant. ($46,930 2011 - 2013).


NCIC PA.6 Trial: Randomized multicenter phase III comparison of adjuvant chemotherapy with gemcitabine versus a combination of 5-fluorouracil, leucovorin, irinotecan and oxaliplatin (mFOLFIRINOX) in patients with resected pancreatic adenocarcinoma. Wei AC, Biagi J. NCIC GI site group: National Cancer Institute of Canada (NCIC). (2012 - present).

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).


The Association of serum Vitamin D levels and Pancreatic Cancer Risk. Cleary SP, Gallinger S, Knight J, Cotterchio M. Canadian Institutes of Health Research (CIHR) ($103,580 2012 - 2013).


Honours Received

Greig P: SSAT Warshaw Master Educator Award, Society for Surgery of the Alimentary Track (SSAT). 2013

Greig P: Francis Moore Excellence in Mentorship in the Field of Transplantation Surgery Award, American Society of Transplant Surgeons (ASTS). 2012

Greig P: Excellence in Postgraduate Medical Education Award - Teaching Performance/Mentorship/ Advocacy, University of Toronto. 2013

Moulton CA: Langer Surgeon Scientist Award, University of Toronto: Department of Surgery. 2013

Moulton CA: PAIRO Excellence in Clinical Teaching Awards, Faculty of Medicine, Professional Association of Interns and Residents in Ontario (PAIRO). 2013
Division of Neurosurgery

Dr. M.A. Bernstein  Professor
Dr. K.D. Davis  Professor
Dr. J.H. Eubanks  Professor
Dr. M. Fehlings  Professor
Dr. F. Gentili  Professor
Dr. C. Hamani  Assistant Professor
Dr. M. Hodaie  Associate Professor
Dr. W.D. Hutchison  Associate Professor
Dr. A.M. Lozano  Professor
Dr. E. Massicotte  Associate Professor
Dr. M. Shamji  Professor
Dr. C.H. Tator  Professor
Dr. M. Tymianski  Professor (Division Head)
Dr. T. Valiante  Assistant Professor
Dr. A. Velumian  Assistant Professor
Dr. G. Zadeh  Assistant Professor

Publications


Invited Visits

Davis KD: International Association for the Study of Pain, 14th World Congress on Pain, Milan, Italy, September 2012. 1/ Speaker: Distinguishing Salience Detection from Pain Encoding in the Brain. 2/ Chair: Is Pain More Than Just Salience Detection?

Davis KD: University of Florida, Gainesville, Florida, United States, October 2012. Invited Lecturer: Imaging structural and functional abnormalities in acute and chronic pain: Individual factors, phenotypes, salience confounds and neuroethical issues McNight Brain Institute,


Davis KD: Boston Children’s Hospital - Harvard Medical School, Boston, Massachusetts, United States, March 2013. Invited Lecturer: Imaging central and peripheral abnormalities in neuropathic pain.


Gentili F: Neuro-oncological course, Department of Neurosurgery, University of Ancona, Italy, July 6, 2012. Invited speaker: Open vs endoscopic approach to tuberculum sella meningiomas: what is the best approach?
Visiting Professor


Gentili F: Gemelli Polyclinic Hospital, Catholic University, Rome, Italy, September 17, 2012.


Gentili F: Pre-Congress Cadaver Course Indian Skull Base Society, September 21-24, 2012, Mumbai, India. Invited Speaker &


Gentili F: Cadaver Course and Lectures: Microscopic and endoscopic Approaches to the skull Base Strasbourg, France, Jan 23-25, 2013. Invited Faculty: 1/ Cadaver demonstration on endoscopic techniques in skull base surgery. 2/ Presentation on Anterior skull base meningiomas: open vs endoscopic approaches


Gentili F: North American Skull Base Society, Annual meeting, February 15-17, 2013, Miami, FL. Invited Speaker: 1/ Panelist: Expert Case Review panel 2/ Panelist: Session on Craniopharyngioma. 3/ Leader Canadian Team: Skull Base Jeopardy


Canadian Neurological Sciences Federation Annual meeting, June 12-14, 2013, Montreal, Quebec. Invited Faculty: Minimally Invasive Neurosurgery.


Hamani C: Meeting of the Federation of European Neurosciences, Barcelona, Spain, July 2012. Invited Speaker: Deep brain stimulation for Depression: Translational aspects.

Hamani C: University of Sao Paulo- Department of Neurology, Sao Paulo, Brazil, January 2013. Invited Speaker: Deep brain stimulation and Memory.


Hamani C: Cornell University- Department of Neurology, New York, United States, April 2013. Invited Speaker: Deep brain stimulation and Memory.

Hamani C: International conference on Deep Brain Stimulation, Dusseldorf, Germany, May 2013. Invited Speaker: Animal models of DBS.


Hodaie M: Congress of Neurological Surgeons, Chicago, Illinois, United States, October 2012. 1/ Moderator: The Role of Surgical Ablation, Radiosurgery, and Neuromodulation in the Treatment of Epilepsy. 2/ Moderator: The Role of Surgical Ablation, Radiosurgery, and Neuromodulation in the
Treatment of Epilepsy. 3/ The Role of Surgical Ablation, Radiosurgery, and Neuromodulation in the Treatment of Epilepsy.


Hodaie M: Neuroscience Grand Rounds, Kingston General Hospital, Kingston, Ontario, Canada, 7 March 2013. Speaker: Towards an objective measure of pain: What we can learn from trigeminal neuralgia.

Hodaie M: Amnesty International and Queen’s Association for Baha’I studies, Kingston, Ontario, Canada, 25 March 2013. Speaker: Screening of Documentary “Education under Fire”.


Hodaie M: 16th Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, Tôkyô [Tokyo], Japan, May 2013. 1/ Moderator: Plenary Session II. 2/ Speaker: Advanced Imaging in Trigeminal Neuralgia. 3/ Speaker: Do We Need International Fellowship Standards?


Hodaie M: 11th International Stereotactic Radiosurgery Society Congress, Toronto, Ontario, Canada, 16 June 2013. Speaker: “State of the art of deep brain stimulation” in seminar “Lesioning versus stimulation: pros and cons of lesioning (RF and SRS) and DBS.


Tymianski M: American Academy of Neurological Surgery 74th Annual Meeting, Chatham, Massachusetts, United States, 18 October 2012. Invited Speaker: Evaluating neuroprotection in aneurysm coiling therapy (ENACT) trial: A test of neuroprotection for procedurally induced ischemic stroke using NA-.


Tymianski M: Geisinger Cerebrovascular Surgery Symposium, New York City, New York, United States, 29 November 2012. Invited Speaker: Results of the ENACT trial-NA-1 in patients undergoing
endovascular repair of brain aneurysms.

**Tymianski M:** Geffen School of Medicine at UCLA, Comprehensive Stroke Center, Los Angeles, California, United States, 10 January 2013. Invited Lecturer: Neuroprotection in acute ischemic stroke—it’s in our hands now.

**Tymianski M:** Society for NeuroInterventional Surgery Annual Meeting 2013, Honolulu, Hawaii, United States, 5 February 2013. Invited Speaker: Advances in Neuroprotective therapies.

**Tymianski M:** International Stroke Conference Annual Meeting 2013, Honolulu, Hawaii, United States, 6 February 2013. Invited Speaker: Neuroprotection within a decade: good news and bad.

**Tymianski M:** Royal Adelaide Hospital, Adelaide, New South Wales, Australia, 20-22 March 2013. Visiting Professor: RH Nimmo Visiting Professorship: 1/ Brain revascularization with EC/IC bypass: a dead procedure or the beginning of a new era? 2/ Neuroprotection in stroke: where are we? Where are we heading? 3/ Management of complex aneurysms. 4/ Brain revascularization with EC/IC bypass. 5/ To clip or to coil: a comparative analysis of costs and clinical outcomes in patients with unruptured aneurysms. 6/ CEA vs drug therapy for stroke. 7/ From bench to bedside: treatment of acute ischemic stroke with PSD95 inhibitors.

**Tymianski M:** University of Montreal, Dept of Neuroscience, Montreal, Quebec, Canada, 18 April 2013. Invited Lecturer: Targeting synaptic protein-protein interactions as a therapeutic strategy for neurological disorders invited lecturer at departmental neuroscience seminar series.

**Tymianski M:** Barrow Neurological Institute, Phoenix, Arizona, United States, 15 May 2013. Invited Speaker: Comparison of clinical outcomes and costs associated with minimally-invasive aneurysm surgery vs. endovascular coiling of unruptured aneurysms.

**Tymianski M:** McGill University, Division of Neurosurgery, Montreal, Quebec, Canada, 7 June 2013. Rasmussen Visiting Professor: From bench to bedside: development of PSD95 inhibitors for the treatment of iatrogenic and community acquired Stroke.

**Valiante T:** CHEX TV, Toronto, Ontario, Canada, 1 August 2012. Presenter: Increasing surgical awareness To increase awareness of epilepsy surgery and the need to provide more the service.

**Valiante T:** Canadian League Against Epilepsy, Alberta, Canada, 12 October 2012. Invited Speaker: Electrical stimulation of invasive electrodes.

**Valiante T:** Providence Health Care, Detroit, Michigan, United States, 13 November 2012. Visiting Professor: Temporal Lobe Epilepsy: A prototype of surgically amenable epilepsy.

**Valiante T:** Amrita Institute of Medical Sciences, Kochin, Kerala, India, 5 January 2013. 1/ Visiting Professor: Functional Mapping of the human Brain. 2/ Operated: Epilepsy surgery at the Institute: diagnostic and therapeutic procedures were performed to train surgeons and neurologists in functional stimulation mapping. 3/ Demonstrator: Workshop Participants (neurologists and neurosurgeons across India) on functional stimulation mapping in a patient implanted with a grid of electrodes.


**Velumian A:** FENS - Federation of European Neuroscience Societies, Barcelona, Spain, 16 July 2012. Presenter: Spinal cord white matter compound action potentials: why single peak despite the heterogeneity of axonal populations?

**Zadeh G:** Radiobiology Group, Department of Radiation Therapy, Henry Ford Hospital, Detroit, United States, July 2012. Visiting Professor: Role of Bone Marrow Derived Cells in Normal Brain Response to Radiation.


**Zadeh G:** World Federation of Neurosurgeons, Turkey, March 2013. Co-Chair: Neuro-Oncology Course.

**Zadeh G:** Society of University Neurosurgeons (SUN), Istanbul, Spain, May 2013. Invited Speaker:
Endoscopic Endonasal Transphenoidal Approach to Giant Pituitary Adenomas: Institutional Experience and Predictors of Extent of Resection.

Zadeh G: Montreal International Meeting of Angiogenesis and Brain Metasis (MISAM), Montreal, Quebec, Canada, June 2013. Keynote Speaker: Brain Tumor Angiogenesis.

Research and Investigations


Investigating Mechanisms of Tumor Neo-vascularization. Zadeh G. Terry Fox Foundation ($600,000 2013 - 2016).


Role of HK2 in Regulating Brain Tumor Metabolism and Angiogenesis. Zadeh G, Hawkins C. Canadian Institute of Health Research ($560,636 2012 - 2016).


Targeting cell death cascades in the neurovascular inflammatory unit. Tymianski M. CSN. ($99,000 2010 - 2013).


Translational Stroke Research. Tymianski M. Canadian Research Chair-Tier 1. ($1,120,000 2010 - 2017).

Honours Received

Bernstein MA: American Association of Neurological Surgeons Humanitarian Award. 2013

Hamani C: Ohye Award, World Society for Stereotactic and Functional Neurosurgery, Japan. May 2013

Hodaie M: Alan R. Hudson Neurosurgery Faculty Teaching Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada. 2013

Shamji M: Top Basic Science Award, Lumbar Spine Research Society. 2013

Shamji M: Top Fellow Research Award, Canadian Spine Society. 2012

Tymianski M: Paul Morley Mentorship Award, Canadian Stroke Network, Toronto, Ontario, Canada. Sep 2012


Zadeh G: CIHR New Investigator Award, Canadian Institutes of Health Research. 2012


Zadeh G: Wightman-Berris Academy Individual Teaching Excellence Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, University of Toronto. 2013.

Zadeh G: Ross Fleming Surgical Educator Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, University of Toronto. 2013
Division Of Orthopaedics

Dr. R.S. Bell  Professor
Dr. T. Daniels  Associate Professor
Dr. J.R. Davey  Associate Professor
Dr. W.M. Erwin  Assistant Professor
Dr. R. Gandhi  Assistant Professor
Dr. J. Lau  Assistant Professor
Dr. S. Lewis  Assistant Professor

Dr. N.N. Mahomed  Professor (Division Head)
Dr. K.W. Marshall  Assistant Professor
Dr. D.J. Ogilvie-Harris  Associate Professor
Dr. Y.R. Rampersaud  Associate Professor
Dr. K. Syed  Lecturer
Dr. C. Veillette  Assistant Professor

Publications


Hartigan DE, Veillette CJH, Cil A, Sanchez-Sotelo J, Sperling JW, Shives T, Cofield RH. Reconstruction


Wright EA, Katz JN, Baron JA, Wright RJ, Malchau H, Mahomed NN, Prokopetz JJZ, Losina E. Risk Factors for Revision of Primary Total Hip Replacement: Results From a National Case-Control Study. Arthritis Care & Research. 2012 Dec; 64(12):1879-1885.


Invited Visits

Bell RS: Jewish General Hospital, Montreal, Quebec, 10 October 2012. Keynote Speaker: Board Retreat - In creating a high reliability organization.


Bell RS: Toronto Central Local Health Integration Network Board of Directors, Toronto, Ontario, 30 October 2012. Speaker: UHN TR Integration.


Gandhi R: American Occupational Health Conference, Los Angeles, South Carolina, United States, 2012. Speaker: Determinants of the likelihood of returning to work in a chronic pain population


Lewis S: Medtronic, Leiden, Netherlands, 5 July 2012. Presenter: Surgical Planning and Management. How to Achieve the Reduction Requested: Anterior Release and Osteotomies: When Have You Done Enough?

Lewis S: Scoliosis Research Society 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, 19 July 2012. Invited Speaker: 1/ Optional Treatment is Posterior-Only Instrumentation and Fusion. Optional Treatment of Moderate (30-Degree) Thoracolumbar Scoliosis with Stenosis in 70
Year-Old. 2/ Spondylolisthesis: Surgical Options for Degenerative Spondylolisthesis. 3/ Advanced Reconstructive Techniques of the Sacropelvis.

Lewis S: Scoliosis Research Society 47th Annual Meeting and Course Opening Ceremonies, Chicago, Illinois, United States, 5-6 September 2012. 1/ Chair: Minimally Invasive Surgery Course Half-day course: Principles of minimally invasive surgery (MIS) and their incorporation into both adult and pediatric spinal deformity surgery. 2/ Moderator: Minimally Invasive Surgery Course Shortcomings of Standard Approaches to Spinal Deformity and Benefits of Minimally Invasive Approaches and their Application to Deformity. 3/ Moderator: Minimally Invasive Surgery Course Techniques for Pediatric Spinal Deformity. 4/ Panel: Minimally Invasive Surgery Course Pediatric Scoliosis: Case Examples; Neuromuscular Curve Correction. 5/ Panel: Minimally Invasive Surgery Course MIS Techniques for Adult Degenerative Deformity: Correction Maneuvers in Adult Lumbar Scoliosis. 6/ Panel: Minimally Invasive Surgery Course Thoracolumbar Curve Requiring Pelvic Fixation. 7/ Speaker: Minimally Invasive Surgery Course Complications in MIS Deformity: Synopsis and Closing Remarks.


Lewis S: Stryker, Las Vegas, Nevada, United States, 9 November 2012. Chair: Fall Deformity Symposium TLIF.


Lewis S: OA Spine, Hong Kong, 3 April 2013. Invited Lecturer: Fundamentals in Spinal Deformity Care: Case to Demonstrate Fusion to Upper Thoracic Spine Case Presentation with Panel Discussion.


Mahomed NN: 2012 National Capital Knee Symposium, Ottawa, Ontario, Canada, 21 September 2012. Invited Speaker: 1/ The 30 Year Total Knee Replacement - Fact or Fiction. 2/ Avoiding Pitfalls in Primary TKR.


Ogilvie-Harris DJ: University of the West Indies, Jamaica, 5 December 2012. Visiting Professor: Sports injuries.


Rampersaud YR: 52nd Annual Manitoba Orthopaedic Symposium, Winnipeg, Manitoba, Canada, 19 October 2012. Presenter: 1/ Comparative effectiveness of the surgical management of focal spinal stenosis compared to hip and knee osteoarthritis. 2/ Systematic approach to orthopedic surgical adverse events (OrthoSAVES): A health services perspective.


Rampersaud YR: The Occupational and Environmental Medicine Section of the Ontario Medical Association, Toronto, Ontario, Canada, 6 April 2013. Invited Speaker: The role of the spinal surgeon in managing back injuries and return to work.


Veillette C: Medicine 2.0: Social Media, Mobile Apps, and Internet/Web 2.0 in Health, Medicine, and Biomedical Research, Boston, Massachusetts, United States, 15 September 2012. Presenter: 1/ Orthopaedia. Wiki publishing and collaborative knowledgebase development in orthopaedics. 2/ UHN-DADOS: An open source web-based platform for orthopaedic patient outcome data collection and reporting.


**Research and Investigations**

A multi center randomized controlled study on Vanguard Regenerex tibial tray in total knee arthroplasty. Mahomed N, Gandhi R, Davey JR. Biomet Canada. ($360,000 2010 - 2013).


Characterizing the 5-year natural history following total joint replacement for osteoarthritis-Assessing the links with later revision surgery and poorer patient-reported outcomes. Perruccio A, Gandhi R, Davis A, Badley E, Mahomed N. Canadian Arthritis Network. ($50,000 2012 - 2014).

Inter-professional Spine Assessment and Education Clinic (ISAEC) Pilot. Rampersaud YR. Ontario Ministry of Health and Long-Term Care. ($2,800,000 2012 - 2014).


Randomized patients with sleep apnea to either general anesthesia or spinal for ambulatory foot and ankle surgery and measure sleep-disordered breathing on the first post-operative night. Brull R, Chung F, Lau J, Syed K. Society for Ambulatory Anesthesia. ($100,000 2011 - 2013)

Treatment Therapy for Surgically-induced Instability Rat Model of Osteoarthritis (OA) Knee with Ex Vivo Expanded Human Bone Marrow MSCs in the Presence of FGF2. Veillette CJH, Juneja S, Mahomed N. Arthritis Program, University Health Network. ($130,000 2013)


**Honours Received**


**Division of Plastic and Reconstructive Surgery**

Dr. D.J. Anastakis  Professor
Dr. S. Hofer  Associate Professor (Division Head)
Dr. C.B. Novak  Associate Professor
Dr. H.P. von Schroeder  Associate Professor
Dr. T. Zhong  Assistant Professor

**Publications**


Invited Visits

Anastakis DJ: McMaster University, Hamilton, Ontario, Canada, 21 September 2012. Visiting Professor Lecturer: Restoring form and function: The impact of our work on the central nervous system.


Anastakis DJ: George Brown College, Convocation Address, 10 June 2013. Keynote Speaker: The Art of Being Influential.


Hofer S: International Plastic Reconstructive and Aesthetic Surgery Meeting, Santiago, Chile, 27 February 2013. Invited Lecturer: 1/ Improving outcomes in Microsurgical breast reconstruction. 2/ How to publish your work in plastic surgery journal.

Research and Investigations


Honours Received

Zhong T: William K. Lindsay Faculty Research Mentor Award, Division of Plastic Surgery, University of Toronto. Jun 2013

Division of Thoracic Surgery

Dr. G.E. Darling Professor
Dr. S. Keshavjee Professor
Dr. M. Liu Professor
Dr. T.K. Waddell Professor (Division Head)
Dr. K. Yasufuku Assistant Professor

Publications


**Invited Visits**


**Keshavjee S:** Methodist Hospital, Texas Medical Center, Medical Grand Rounds, Houston, Texas, United States, 12 September 2012. Invited Lecturer: The Future of Organ Preservation.


**Keshavjee S:** Right Heart Failure Summit, Harvard University, Boston, United States, 12 October 2012. Keynote speaker: Brave New World - Building a New Lung.

**Keshavjee S:** CHEST Conference, Atlanta, Georgia, United States, 22 October 2012. Distinguished Speaker: Building a New Lung CIHR/CTS Distinguished Lecture in Respiratory Sciences.


**Keshavjee S:** University of Zurich, Zurich, Switzerland, 27 October 2012. Invited Speaker: Lung Replacement-What's Next? 20 Years of Lung Transplantation in Switzerland.


**Keshavjee S:** STS/AATS TechCon, Society of Thoracic Surgeons, 49th Annual Scientific Meeting, Los Angeles, California, United States, 27 January 2013. Invited Speaker: Ex vivo salvage of lungs for transplantation.

**Keshavjee S:** United Therapeutics, Silver Spring, Maryland, Washington, United States, 11 April 2013. Invited Lecturer: The Future of Ex Vivo Lung Repair and Regeneration.

**Keshavjee S:** International Society for Heart and Lung Transplantation, Montreal, Quebec, Canada, 23 April 2013. Invited Speaker: Evaluation and Management of the Lung Donor, Pediatric Lung Transplant Academy.

**Keshavjee S:** University of Washington School of Medicine, 22nd Annual Visiting Scholar in Cardiothoracic Surgery, Seattle, WA, United States, 10 May 2013. Visiting Professor: A New Paradigm in Transplantation: Personalized Medicine for the Organ.


**Keshavjee S:** High Performance Computing Symposium, University of Ottawa, Ottawa, Canada, 6 June 2013. Invited Lecturer: The Role of Molecular Diagnostics in Transplantation: Personalized Medicine for the Organ.

**Keshavjee S:** Transplantation Society of Australia and New Zealand (TSANZ), Canberra, Australia, 24 June 2013. Invited Speaker: 1/ Ex vivo perfusion of lungs and other organs. 2/ Extracorporeal Life Support as a Bridge to Lung Transplantation 3/ Ex vivo. Repair of donor lungs for transplantation 4/ Debate: Ex vivo organ perfusion represents the most important advance in transplantation this century.


Waddell JP: Smith & Nephew China, Shanghai / Wenzhou / Boading, Shanghai, China, November 2012. Invited Lecturer: 1/ How to Choose the Bearings and Case Discussion. 2/ My Experience of R3 and Case Discussion. 3/ The Trend of Resurfacing and BHR.


Yasufuku K: 50th Anniversary Retreat, Chiba University, Department of Thoracic Surgery, Chiba, Japan, 7 October 2012. Invited Speaker: Role of an Academic Surgeon – Experience at Toronto General Hospital.


Research and Investigations


Honours Received

Keshavjee S: Senior Consultant of Wuxi People’s Hospital, Dept of Surgery, Faculty of Medicine, Wuxi People’s Hospital. Honorary Chief of Jiangsu Lung Transplant Center and Jiangsu Key Laboratory of Organ Transplantation. Nov 2012

Keshavjee S: The Queen Elizabeth II Diamond Jubilee Medal. Feb 2013

Keshavjee S: Distinguished Lectureship in Respiratory Sciences Award, CIHR, Ottawa. CIHR Institute of Circulatory & Respiratory Health (ICRHR) & Canadian Thoracic Surgery (CTS). 2012


Division of Urology

Dr. A. Finelli  Associate Professor
Dr. N.E. Fleshner  Professor (Division Head)
Dr. M.M. Hassouna  Professor
Dr. M. Jewett  Professor
Dr. G. Kulkarni  Assistant Professor
Dr. A. Matthew  Assistant Professor
Dr. S. Radomski  Professor
Dr. J. Trachtenberg  Professor

Publications


Invited Visits


Finelli A: University of Manitoba, Ontario, Canada, 19 February 2013. Visiting Professor: Update in the medical management of Advanced Prostate Cancer.


Hamilton R: Canadian Urological Association, Niagara Falls, Ontario, Canada, 25 June 2013. 1/ Presenter: Comparison of Clinical Stage I Nonseminomatous Germ Cell Tumors with Retroperitoneal Progression on Active Surveillance to Patients Initially Presenting as Stage II. 2/ Invited Moderator: Poster Session: Prostate Cancer and Miscellaneous.


Hassouna MM: Berlin, Germany, 11 June 2013. 1/ Chair: Neuromodulation for Pelvic Organ Motility Disorders. 2/ Distinguished Speaker: Neuromodulation for Sexual Dysfunction.


Kulkarni G: Canadian Urological Association, Ontario, Canada, June 2013. Moderator Podium Session: Testes and Other Oncology.


Matthew A: Canadian Association of Psychosocial Oncology, Ottawa, Ontario, Canada, 25 April 2013. Presenter: A Bio-Psychosocial Sexual Health Rehabilitation Clinic for Couples Following Radical Prostatectomy Connecting with Intention in Psychosocial Oncology Conference.


Radomski SB: Canadian Academy of Academic Urologists, Niagara Falls, Ontario, Canada, 22 June 2013. Invited Lecturer: Canadian Urological Manpower Issues.

Research and Investigations


Biopsy Avoidance in Patients At Risk For Prostate Cancer and in Patients With Low Risk Prostate Cancer: Developing Tools for Personalized Medicine. Kulkarni G. Prostate Cancer Canada. ($300,000 2012 - 2014).

Developing and Validating the BUSS (Bladder Utility Symptom Scale) – A Disease-Specific Utility Instrument for Bladder Cancer Health-Related Quality of Life. Krahn M, Kulkarni G. Canadian Institutes of Health Research (CIHR). ($359,948 2012 - 2015).


Honours Received

Finelli A: Faculty Postgraduate Teaching Award Clinical, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. 2013 – 2013.


Hamilton R: Clinical Teaching Award, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Jun 2013.


Kulkarni G: Faculty Postgraduate Teaching Award Clinical, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Jul 2012 - Jun 2013.

Kulkarni G: Michael Jewett Postgraduate Lecture Award, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Jul 2012 - Jun 2013.

Matthew A: Award of Merit, Ontario Psychology Association, Ontario, Canada. The OPA’s highest award, which honours an individual, group or organization that has made a significant or sustaining contribution to the profession of psychology and the Association. Jan 2013.


Division of Vascular Surgery

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<thead>
<tr>
<th>Dr. K.W. Johnston</th>
<th>Professor</th>
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<tr>
<td>Dr. R.F. Lindsay</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. G. Oreopoulos</td>
<td>Assistant Professor</td>
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<td>Dr. G. Roche-Nagle</td>
<td>Assistant Professor</td>
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<td>Dr. B.B. Rubin</td>
<td>Professor</td>
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<tr>
<td>Dr. L. Tse</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. D.L. Wooster</td>
<td>Professor</td>
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Publications


Invited Visits

Lindsay TF: XIX Colombian Congress of Vascular Surgery, Colombia, 8-10 July 2012. 1/ Distinguished Speaker: Aneurysm repair using fenestrated and branched grafts. 2/ Invited Lecturer: AAA Screening: What is the latest data. 3/ Distinguished Speaker: Scientific reasons why EVAR should reduce RAAA mortality.


Rubin BB: Senate Standing Sub-Committee, Social Affairs, Science and Technology, Ottawa, Ontario, Canada, October 2012. Invited Speaker: Vein dilation therapy in Multiple Sclerosis.

Tse I: Canadian Society of Vascular Nursing, Quebec City, Quebec, Canada, 27 September 2012. Invited Speaker: Management of Carotid Artery Disease.

Tse I: 8th European Symposium of Vascular Biomaterials (ESVB), Strasbourg, France, May 2013. Presenter: (ESVB) Graft Durability ad Fatigue After in situ Fenestration of Endovascular Stent Grafts.


**Research and Investigations**

**Health Policy Implications for a Canadian AAA Screening Program.** Wooster D, Greco E, Dueck A, Wooster E. Canadian Society for Vascular Surgery, Cook Award. ($5,000. 2011 – 2012)

**Superficial Vein Thrombosis in a Community Setting: The Need for a Management Algorithm.** Wooster D: Canadian Society for Vascular Surgery, Sigvaris President’s Award. ($1,500 2012 - 2013).


**Honours Received**

**Rubin BB:** Achievement, Commitment and Excellence Award, Dept of Surgery, Faculty of Medicine, Partner Relations - Ontario Expert Panel on Multiple Sclerosis, Ministry of Health and Long Term Care, Toronto, Ontario, Canada. 2012.

**Wooster DL:** Sigvaris President’s Award, Canadian Society for Vascular Surgery. 2012

In May 2013 we moved into Phase 1 of our new building (attached picture). Within several weeks the old WCH building will be demolished. Completion of Phase II of the building will be in 2015.

Women’s College Hospital is a designated facility for ambulatory surgery in the Toronto Central LHIN. Surgical programs with a focus in Ambulatory Care, continue to be a dominant focus in the structure of Women’s College Hospital as this institution continues to develop as an Academic Ambulatory Surgical Centre that is fully integrated with the hospital’s primary ambulatory strategic plan and current services. 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 and innovative models of systems solutions. These innovations include the expedited discharge in post-operative patients and remote monitoring of patients at home using smart phone technology. Women’s College continues to develop a hub in a city-wide focus in Orthopaedic Sports Medicine, Thyroid and Endocrine Cancers, Breast Cancer and Breast Reconstruction and building surgical strength in our core programs of Urology, Orthopedics, Plastic Surgery and General Surgery.

**NEW STAFF**

This year WCH welcomed two new recruits:

**Dr. Jaskarndip Chahal** is an Orthopaedic Surgeon. Jas attended medical school at the University of Manitoba and completed his orthopaedic residency training here at U of T where he enrolled in the Surgeon-Scientist Program in Clinical Epidemiology. His practice is focused on treating patients with orthopaedic sports medicine disorders. His subsequent fellowship training included a fellowship at Rush University Medical Center in Chicago where he developed and was exposed to cutting edge cartilage restoration and joint preservation procedures. His research will focus on cartilage regeneration, clinical measurement and conducting translation research outcomes research of novel cartilage repair techniques. Jas will be cross appointed in the Department of Surgery at UHN.

**Dr. Karen Devon** is an Endocrine and Thyroid Surgeon with an interest in Medical Ethics and Education. After receiving her MDCM at McGill University Dr. Devon entered the General Surgery Training Programme and the Surgeon Scientist Programme here at the University of Toronto. She was awarded her MSc in Clinical Epidemiology in 2008 and her FRCSC in General Surgery in 2010. Karen then completed 6 months of postgraduate training in Breast Surgical Oncology at UHN, followed by a Clinical Fellowship in Endocrine Surgery at the University of Chicago. This Fellowship included one month in the Philippines studying the surgical treatment of goitre. Additionally, Karen completed a Surgical Ethics Fellowship at the MacLean Center for Clinical Ethics at the University of Chicago. Presently, Karen is enrolled in the Education Scholar Programme at the Centre for Faculty Development and Education at the University of Toronto. Karen will be cross appointed in the Division of General Surgery at UHN.
DIVISION REPORTS

The Division of Orthopaedic Surgery continues to provide leadership in teaching and instruction using simulation techniques in Sports Orthopaedics at Women’s College Hospital and activities of the University of Toronto Orthopaedic Sports Medicine. Dr. Mitch Brown chaired the 13th Annual Toronto Breast Surgery Symposium held this past April. Dr. Semple was featured in the Dean’s Report for Innovation using Smartphone Technology for the remote monitoring of patients at home. Women’s College Hospital continues to host international candidates under the Allergan Breast Reconstruction clinical fellowship in the Division of Plastic Surgery.

EDUCATION

Women’s College provides a unique surgical education setting because of its ambulatory mandate. Currently being developed is an ambulatory curriculum with learning objectives specific to ambulatory surgery. We have designated resident rotations in Plastic Surgery, Orthopedics and establishing a resident rotation in General Surgery. The experience rated by undergraduates, residents, fellows and CME is excellent. Teaching volumes have steadily increased over the transition period. A Simulation Education Centre has been established in a multidisciplinary content, with a primary contribution by Orthopaedic Surgery.

RESEARCH

The eight core surgeons at Women’s College Hospital hold a total of 18 active research grants and 78 publications through 2012-2013. They are engaged in a variety of clinical, educational and basic research activities. Several of them supervise residents and fellows in projects and graduate degree programs.

Division of General Surgery

Dr. T. Cil  Assistant Professor
Dr. K.M. Devon  Assistant Professor

Publications


Devon KM. Clinical Review: Patient expectations about the effect of chemo. 2013 May.


**Invited Visits**

Cil T: Canadian Conference on Medical Education (CCME), Quebec City, Quebec, Canada, 21 April 2013. Presenter: Gender and Education: A case study approach to exploring the role of gender in women’s experiences of family medicine and surgery.


Devon KM: Faculty of Medicine, University of Chicago, Chicago, Illinois, United States, 4 March 2013. Visiting Professor: Ethics of Health Care and Social Media evening seminar, lecture and small group session.

Devon KM: HCSMCA- Colleen, Canada, 26 June 2013. Facilitator: Health Care and Social Media Moderate one hour twitter chat on ethics of sharing clinical photos from medical missions via social media. (Twitter Chat)

**Research and Investigations**


The Effect of Type of Breast Reconstruction on Long-Term Psychosocial Functioning in Women with Bilateral Prophylactic Mastectomy. Semple J, Li L, Metcalfe K, Cil T. University of Toronto, CREMS. ($2,750 2013).


**Division of Orthopaedics**

Dr. J. Chahal Assistant Professor
Dr. L. Murnaghan Assistant Professor
Dr. J. Theodoropoulos Assistant Professor (Division Head)

**Publications**

**Peer-Reviewed Publications Journal Articles**


Petreza M, Veillette C.,Park S, Theodoropoulos J.S. Use of fresh osteochondral glenoid allograft to treat postero-inferior bone loss in chronic posterior shoulder instability. The American Journal of Orthopaedics. 42.2.78-82. 78-82. 2013 Feb.


Invited Visits


Theodoropoulos J: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20 June 2013. Effect of Tissue Processing on Clinical Outcomes of Primary Anterior Cruciate Ligament Reconstruction Using Allograft.


Research and Investigations


Division of Plastic & Reconstructive Surgery

Dr. M.H. Brown Associate Professor
Dr. J.L. Semple Professor (Division Head)

Publications


Invited Visits


Brown MH: 17th Advanced Aesthetic Plastic Surgery Workshop 2013, Melbourne, Australia, 8-9 February 2013. Invited Speaker: 1/ Oncoplastic surgery panel. 2/ Asymmetry, Poland's syndrome, constricted tuberous breast, puffy nipples, synmastia, gynaecomastia. 3/ Panel on BAM mastopexy. 4/ Breast reconstruction with tissue expansion. 5/ Breast reconstruction with autologous tissue. 6/ Breast reconstruction with autologous tissue. 7/ Management of partial breast defects. 8/ Nipple reconstruction. 9/ Plastic surgery practice and special interests of our guest Professors. 10/ Breast Reduction - Assessment and how I do it. 11/ Secondary breast reduction surgery. 12/ Management of nipple areolar loss. 13/ Primary Breast Augmentation - What do I find useful in assessment? 14/ Primary Breast Augmentation - What implant and why? 15/ Primary Breast Augmentation - How do I do it? 16/ Breast Augmentation - Complications and management. 17/ Primary Breast Augmentation - Secondary BAM - Assessment, management. 18/ Primary Breast Augmentation - Maximising pain relief for a rapid recovery in day surgery. 19/ Management of breast ptosis. 20/ Augmentation mastopexy.


Semple JL: 18th International Hypoxia Symposium, Lake Louise, Alberta, Canada, 2 February 2013. Speaker: Elevated levels of uteroglobin as a biomaker for ozone-induced lung injury in mountaineers diagnosed with hape in the Himalaya.


Honours Received

Brown MH: Teaching Award. Going Above and Beyond, Plastic Surgery, Dept of Surgery, Faculty of Medicine. Division of Plastic And Reconstructive Surgery, University of Toronto. 2013.
Division of Urology

Dr. E.D. Grober  Assistant Professor

Publications


Invited Visits


Research and Investigations


Discovery of Genetic Abnormalities Associated with Male Infertility. Grober ED. McLaughlin Centre Accelerator Grants. ($50,000 2012 - 2013).


Division of Anatomy

Anne Agur  Professor
Barbara Ann Ballyk  Lect. & equivalent
Paulo D. Koeberle  Lecturer
Judi Laprade  Associate Professor (Division Head)
Cindi M. Morshead  Assistant Professor
Hong-Shuo Sun  Assistant Professor

Publications


D’Onofrio PM, Koeberle PD. What can we learn about stroke from retinal ischemia models? Acta Pharmacol Sin. 2013; 34.91-103.


**Invited Visits**

Laprade J: Canadian Physiotherapy Association, Montreal, Quebec, Canada, 24 May 2013. Presenter: Exercise Prescription for Seniors with Osteoporosis and Another Chronic Disease: Blending Research and Practice.

Laprade J: CPTN, Toronto, Ontario, Canada, 1 June 2013. Invited Speaker: Osteoporosis and the Personal Trainer.


Morshead CM: Biomedical Engineering Society Conference, Atlanta, United States, November 2012. Speaker: Application of electric fields for the rapid and directed migration of neural precursor cells towards the goal of neural repair.


Morshead CM: Canadian Neurological Sciences Federation, Montreal, Quebec, Canada, June 2013. Invited Speaker: Harnessing endogenous neural stem cells for brain injury and disease “Promises of neural stem cells in neurosciences” Symposium.

Sun H-S: Sun Yat-Sen University, Eye Research Center, China, November 2012. Invited Speaker: Ion Channels in Ischemic Injury.

Sun H-S: International Conference of Physiological Sciences 2012, China, November 2012. Invited Speaker: Calcium-Permeable Ion channels in Cerebral Ischemia and Neuroprotection.

Sun H-S: ZhongShan School of Medicine, Sun Yat-Sen University, China, November 2012. Invited Speaker: Animal Stroke Models in Drug Discovery and the Role of VRAC in Hypoxic-Ischemic Injury.

**Research and Investigations**

**Advances in Cerebral Palsy: Cell to Person.** Fehlings D, Morshead C et al. Ontario Brain Institute. ($2,000,000 2011 - 2013).


**CFI Equipment Grant.** Sun HS. Canada Foundation for Innovation (CFI) ($300,000 2011 - 2016).

**Discovery Grant.** Sun HS. Natural Sciences and Engineering Research Council of Canada (NSERC). ($165,000 2011 - 2016).

**Focal Adhesion Kinase: A pivotal role in CNS apoptosis and regeneration.** Koeberle P. Canadian Institutes of Health Research (CIHR) / CMB. ($554,525 2012 - 2017).

**Grant-in Aid.** Sun HS. Heart and Stroke Foundation of Canada ($128,000 2011 - 2013).

**Molecular Interactions that modulate PI3 Kinase and MAP Kinase pathways during Apoptosis.** Koeberle P. Natural Sciences and Engineering Research Council of Canada (NSERC) ($130,000 2012 - 2017).

**Novel biotechnology for modulation of the neurovascular niche to promote regeneration and rehabilitation after ischemic stroke.** Corbett D, Morshead C, Shoichet M. European Stroke Network/ Canadian Stroke Network ($202,500 2012 - 2013).


SRCFC. Sun HS. Scottish Rite Charitable Foundation of Canada ($105,000 2012 - 2015).

Honours and Awards

Ballyk BAD: Excellence in Undergraduate Teaching in Life Sciences, Faculty of Medicine, University of Toronto. The purpose of these awards is to honour outstanding and sustained contributions by faculty members to undergraduate Arts and Science teaching in Life Sciences programs and the undergraduate experience at the University of Toronto. 2013.

Sun HS: Outstanding Professional Alumni Award, Sun Yat-Sen University ZhongShan School of Medicine, China. 2012.
Research in Education

Dr. S. Kitto Assistant Professor
Dr. R.R. Sonnadara Assistant Professor
Dr. N. Woods Assistant Professor

Publications


Invited Visits


Kitto S: Tampere University and Finnish University Properties, Helsinki, Finland, 30 August 2012. Invited Speaker: Why SKYKoy should care about an evidence based methodology for a campus development project.

Kitto S: 71st Annual Meeting of American Association for the Surgery of Trauma (AAST), Kauai, Hawaii, United States, September 2012. Speaker: Standardizing Handover of Critically Injured Trauma Patients: More than just a checklist.


Kitto S: Regional Education Committee meeting, Kaiser Permanente Colorado Institute for Health Research, Denver, Colorado, United States, 4-5 December 2012. Invited Speaker: 1/ Mapping Practice Boundaries and Intersections between Domains: Continuing education, knowledge translation, patient safety and quality improvement. 2/ Re-visiting the role of health and medical culture(s) in implementation Science.


Sonnadara R: Canadian Conference for Medical Education, Banff, Alberta, Canada, 2012. Speaker: Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.


Sonnadara R: Association for Surgical Education Meeting, Orlando, Florida, United States, April 2013. Speaker: 1/ Toronto Orthopaedic Boot Camp: Perspectives on student-led learning. 2/ Identifying the intraoperative ‘slowing down’ moments of surgical judgment: are experts consistent?

Sonnadara R: Canadian Conference on Medical Education, Quebec City, Quebec, Canada, April 2013. Speaker: Exploring the unplanned ‘slowing down’ moments of surgical judgment: are experts consistent?

Sonnadara R: American Urological Association Meeting, San Diego, California, United States, May 2013. Speaker: Towards development and validation of an intraoperative objective assessment tool for trainee evaluation of robot-assisted laparoscopic radical prostatectomy: Results of a Delphi study to create an inventory of procedural steps.

Sonnadara R: Canadian Urological Association Meeting, Niagara Falls, Ontario, Canada, June 2013. Speaker: Towards development and validation of an intraoperative objective assessment tool for trainee evaluation of robot-assisted laparoscopic radical prostatectomy: Results of a Delphi study to create an inventory of procedural steps.

Woods NN. Association of Biochemistry Course Directors Annual Meeting, Santa Fe, NM. May 2013. Speaker: Missing Pieces: Solving the basic science puzzle through “integration”.

Research and Investigations

Causal Knowledge and Clinical Reasoning. Woods NN. Dean’s Fund New Staff Grant. ($9,978 2007 – present)


Hand Hygiene Compliance. The Division of General Internal Medicine, Department of Risk Management & Quality Improvement and the Knowledge Translation Program. Kitto S, Yeung E, Reeves S. St. Michael’s hospital. ($22,000 2011 - 2012).


Interprofessional competencies in a student-led clinical setting. Masiello I, Löfgren S, Ericson A, Bolinder G, Reeves S, Kitto S. Karolinska University Hospital, Karolinska Institutet. ($162,000 2012).


Qualitative analysis of the HPB community of practice. Kitto S, Gallinger S, Moulton CA. University Health Network, HPB Surgical Oncology Program, University of Toronto. ($26,500 2010 - 2012).


Honours Received

Kitto S: Helen P. Batty Faculty Development Award, Dept of Surgery, Faculty of Medicine, The Wilson Centre Qualitative Research Atelier Series. 2013

## Cross Appointments

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Dr. A.J. Baker</td>
<td>Anaesthesia</td>
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<tr>
<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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<tr>
<td>Dr. A. Campbell</td>
<td>Medicine</td>
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<tr>
<td>Dr. J. Carson</td>
<td>(Family and Community Medicine)</td>
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<tr>
<td>Dr. W.A. Cassar-Demajo</td>
<td>Anaesthesia</td>
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<tr>
<td>Dr. A. Daar</td>
<td>Public Health Sciences</td>
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<tr>
<td>Dr. A. Damyanovich</td>
<td>Medical Imaging</td>
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<tr>
<td>Dr. J.E. Davies</td>
<td>Dentistry</td>
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<tr>
<td>Dr. A.D. DePetrillo</td>
<td>Obstetric and Gynaecology</td>
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<td>Dr. E. Diamentis</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. R.J. Eby</td>
<td>Medicine</td>
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<tr>
<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>
<td>Otolaryngology</td>
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<td>Dr. M. Greenberg</td>
<td>Pediatrics</td>
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<td>Dr. M.D. Grynpass</td>
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<td>Dr. P.J. Gullane</td>
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<td>Dr. M.G. Johnston</td>
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<td>Medical Biophysics</td>
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<td>Dr. M. Milner</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. T. Van der Kwast</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. Q. Wan</td>
<td>Physiology</td>
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<td>Public Health Sciences</td>
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<td>Dr. R. Willinsky</td>
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<tr>
<td>Dr. L. Wilson-Pauwels</td>
<td>Biomedical Communications</td>
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<tr>
<td>Dr. I. Witterick</td>
<td>Otolaryngology</td>
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