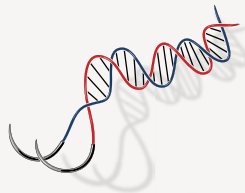




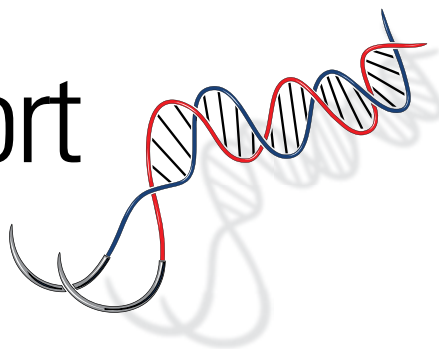
Department of Surgery Annual Report

JULY 1, 2012 – JUNE 30, 2013



Department of Surgery Annual Report

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R.S. McLaughlin Professor And Chair

Dr. J.T. Rutka

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Dr. R.R. Richards	Vice-Chair, Clinical
Dr. B. Alman	Vice-Chair, Research/A.J. Latner Professor and Chair of Orthopaedics
Dr. R. McLeod	Vice-Chair, Quality
Dr. A. Kapus	Associate Chair, Research

Surgeons In Chief

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Dr. J.S. Wunder	Mount Sinai Hospital/Rubinoff-Gross Chair in Orthopaedics
Dr. C. Compeau	St. Joseph's Health Centre
Dr. O.D. Rotstein	St. Michael's Hospital
Dr. A. Nathens	Sunnybrook Health Sciences Centre
Dr. G. Simone	The Toronto East General Hospital
Dr. S. Keshavjee	University Health Network/James Wallace McCutcheon Chair in Surgery
Dr. J.L. Semple	Women's College Hospital

University Division Chairs

Dr. C. Morshead	Anatomy
Dr. C. Caldarone	Cardiac Surgery
Dr. A. Smith	General Surgery/Bernard and Ryna Langer Chair
Dr. A. Lozano	Leslie Dan Professor and Chair of Neurosurgery
Dr. B. Alman	A.J. Latner Professor and Chair of Orthopaedics
Dr. C. Forrest	Plastic Surgery (Interim Chair)
Dr. T. Waddell	F.G. Pearson/R.J. Ginsberg Chair in Thoracic Surgery
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

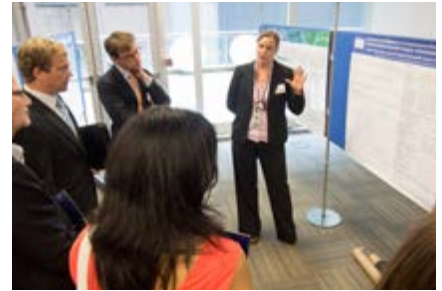
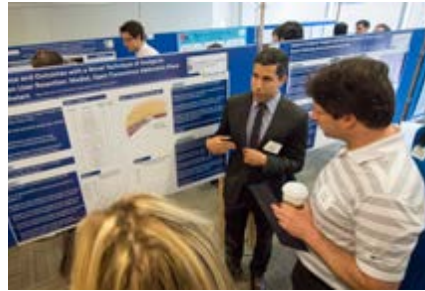


Gordon Murray Lecture



John E. Niederhuber: The Importance of the Tumor Microenvironment in Cancer Progression

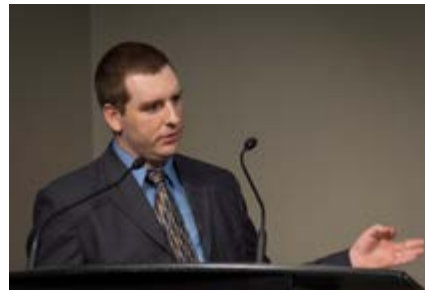
Poster Presentations



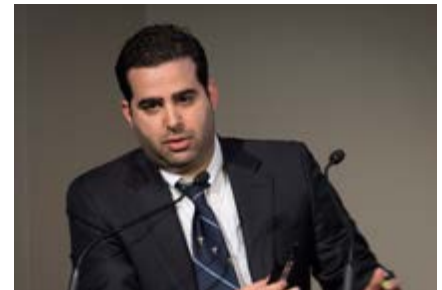
Gallie-Bateman and McMurrich Research Presentations



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



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



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



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

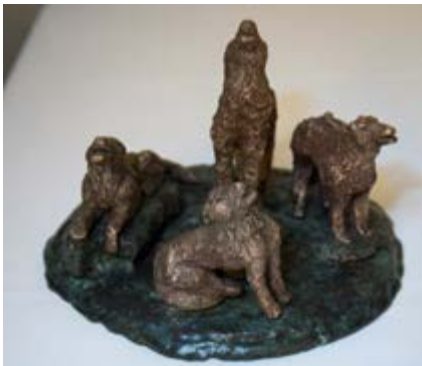


Jennica Platt: Geographic variation in rates of immediate and delayed breast reconstruction in Ontario and the influence of plastic



James T. Rutka: 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





Chair's Report

Dr James T Rutka, MD, PhD, FRCSC

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 Okrainec, Kazuhiro Yasufuku, Greg Borschel, Alice Wei, Clement Hamani to Associate Professor; and Stefan Hofer, Marc Jeschke, Cindi Morshead, 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 Borchell, 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, Jaskarndip Chahal, Karen Devon, Robert Hamilton, Edward Hickey, Paul Kongkham, Steve McCabe, Bartolomeu Nascimento, Anne O'Neill, Agostino Pierro, Ivan Radovanovic, Mohammed Shamji, 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.

Breakfast with the Chairman





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 Catral, Marcelo Cypel, Karen Davis, James Drake, James Eubanks, Gregory Fain, 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, James Wright, 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 ap-

proaches 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 chemotherapy. 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.





Above: Dr. Ben Alman at 2012 Gallie Day event

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-Jazrawe, 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 Ottolino-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 **Tovee Postgraduate Prize**, and **Robert J. (RJ) Cusimano** received the **Tovee 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.



Postgraduate Education

Ron Levine, *Director*

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.

Below: Ron Levine





Undergraduate Education

George Christakis, MD Director

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 re-vamped. 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 Zywiell, 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 Werneck, 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 via a vis promotion and advancement of faculty through partnership with the Vice Dean of Continuing Professional Development.



Life in Surgery Meeting – Panel members



Surgical Alumni Association

Martin Barkin, *President*

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:

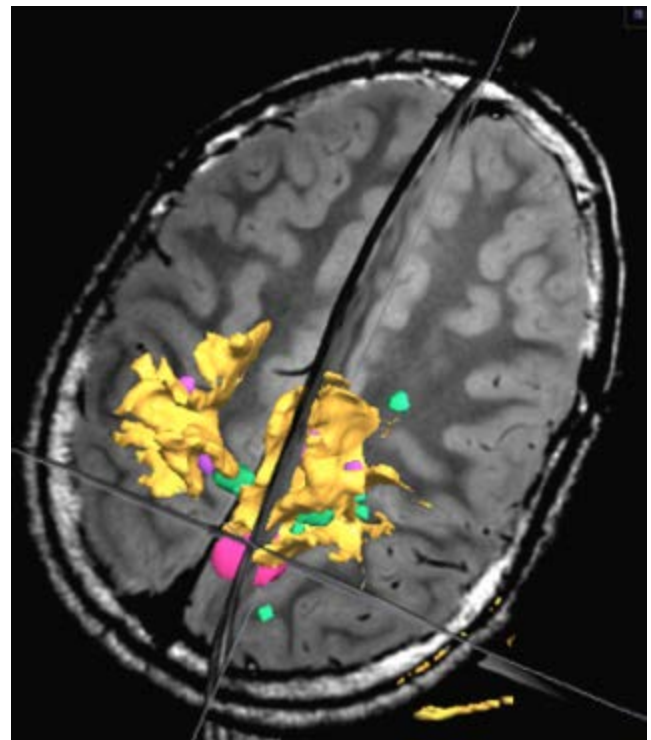
We now have over 3,500 addressable alumni in our searchable, relational database. This will move to a new, more easily searchable database during 2014. To maintain a more accurate database we have started to standardize the definition of an alumnus/alumna, and to centralize the data that relates to all 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 Mickle 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.





Division of Anatomy

Cindi M. Morshead, *Chair*

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.



2012 University of Toronto
Christmas Party



Division of Cardiac Surgery

Christopher Caldarone, *Chair*

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 the 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 hold 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 ("Transfusion Requirements in Cardiac Surgery") and one grant from the Heart and Stroke Foundation of Canada ("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) led 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 (CVDMC) 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.



Division of General Surgery

Andy Smith, *Chair*

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 Burnstein 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 recruitments 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 Profes-

sor, 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

2013
Neurosurgery
Softball team
playing in
Central Park NYC

(front row):

- R. Alkins, S. Jhas,
- J. Rutka, A. Mansouri,
- P. Northcott,
- C. Santaguida

(back row)

- D. Izukawa,
- M. Shahideh,
- L. MacDonald,
- D. Guha, S. Stone,
- D. Cadotte, D. Khan,
- E. Neilson



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

- Kim J. Burchiel, Oregon Health and Science Univ., 30th E. Harry Botterell Visiting Lectureship, Dec. 12, 2012
- 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

- Duke Samson, University of Virginia, 38th William S. Keith Visiting Professorship, Jun. 6, 2013

Division Firsts. PGY4 residents David Cadotte, Jeff Wilson, 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*.

Queen Elizabeth II Diamond Jubilee Medal.

From left to right:

Rt Hon Stephen Harper,
Fletcher Aide, Dr Darcy
Fehlings, Dr Michael
Fehlings, Doug Earle,
Hon. Steven Fletcher

Photo credit: PMO Photos by Deb Ransom





Division of Orthopaedic Surgery

Ben Alman, *A.J. Latner Professor/Chair*

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 Theodoropoulos 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 administrative systems, delivery of medical care, medical related community service, etc.) at Gallie 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 Stefansky 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, than 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

Edward Liu and Greg Borschel BDNF and GDNF for treatment of nerve injury. CIHR Health Professional Student Research Award. Collaborators: (\$4,251 CAD, 2012-2013).

Marc Jeschke. Catecholamines as primary mediators of post-burn hypermetabolism: A clinical prospective trial. Canadian Institute for Health Research (CIHR). 123336. Collaborator(s): Rubinfeld, Gordon, Boehning, Darren. 5-year CIHR Operating Grant - \$851,939 2012-2017.

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.

Anne Klassen, Christopher Forrest, Andrea Pusic and Karen Wong CIHR Grant: An International Study to Develop a Patient-Reported Outcome Instrument for Cleft-Lip and/or Palate Patients: The CLEFT-Q. (\$602,389 – 2013-2018)

Christine Novak (Principal Investigator), Anastakis DJ, Fernie G, von Schroeder HP: Effect of Forearm Warming Compared to Hand Warming for Cold Intolerance Following Upper Extremity Trauma. American Foundation for Surgery of the Hand for \$20,000 from October 1, 2012 – September 30, 2014.

Cho Pang: CIHR Grant. Angiogenic cytokine gene therapy for optimal augmentation of skin flap viability: efficacy and mechanism. C.Y. Pang. 2012-2013 (carried over), \$55,954

Cho Pang: CIHR Grant. Hypoxic postconditioning of human skeletal muscle against reoxygenation injury: efficacy, mechanism and therapeutic potentials. C.Y. Pang, C. R. Forrest, S. Hofer, 2012-2013, \$55,811

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)

John Phillips, Drake J, Christopher Forrest, Fukasawa R, Koenemann J (2013) Physicians' Services Incorporated Health Research Grant, Mathematical Optimization of Pediatric Cranial Vault Remodeling and Robotic CO2 Etching of Skull Contours (\$169 000/2 years)

Zhong T, Baxter N, Hofer S, Semple J, Brown M, Beber B, Macadam S, Hoch J, Lennox P, Devins J: The Use of Acellular Dermal Matrix in One-Stage Implant Breast Reconstruction: A Multicenter, Randomized Controlled Trial. Canadian Breast Cancer Foundation (CBCF). (\$368,449 2012 - 2015).

Toni Zhong, Nancy Baxter: The Use of Acellular Dermal Matrix in One-Stage Implant Breast Reconstruction: A Multicenter, Randomized Controlled Trial. Conquer Cancer Foundation and the American Society of Clinical Oncology – Career Development Award. (\$66,666/year 2012 – 2015).

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 (NOYCIA) by the NOYCIA 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 Restracom 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
- Mentor Canada, Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award, 2013 Title: “Comparing the Use of 3-D Photography and Computed Tomography in Assessing Craniosynostosis”. Authors: Ho O, Saber N, Stephens D, Clausen A, Forrest C, Phillips J. Supervisor: Dr. John Phillips

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
- Physician Services Incorporated Foundation – Resident Research Grant (\$19,000 x 1 year), “Breast Reconstruction Decision Workshop Pilot RCT” Feb 2013 – 2014
- 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

Howard Clarke: External Reviewer for Doctoral Thesis Defence for Dr Willem Pondaag, ‘Obstetric brachial plexus lesions. A framework for therapy’. University of Leiden, Leiden, Netherlands. 2012

- 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 “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:

- Young Investigators Initiative Grant Mentoring Workshop, United States Bone and Joint Initiative, April 13-15, 2012, Toronto, Ontario. American Foundation for

Surgery of the Hand.

- CIHR Institute of Musculoskeletal Health and Arthritis. Selected to attend Young Investigators Forum. Toronto, Ontario, June 10-12, 2012.
- 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.

Kyle Wanzel: St. Joseph Health Centre plastic surgery teaching award 2012-2013.

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 Ladder for Extremity Reconstruction – A Half Century of Progress”

9th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

The 9th Annual Lindsay-Thomson Symposium in Paediatric 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 Djohan, 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.

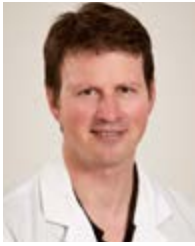
Ron Somogyi successfully passed his RCPSC fellowship examination

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.



Division of Thoracic Surgery

Tom Waddell, *Chair*

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: Phillippe 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.





Division of Urology

Neil Fleshner, *Chair*

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	Girish Kulkarni
Antonio Finelli	Andrew Matthew
Magdy Hassouna	Bharti Bapat
Neil Fleshner	Darius Bagli
Robert Hamilton	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



Division of Vascular Surgery

Tom Lindsay, *Chair*

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 Bioresorbable 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.

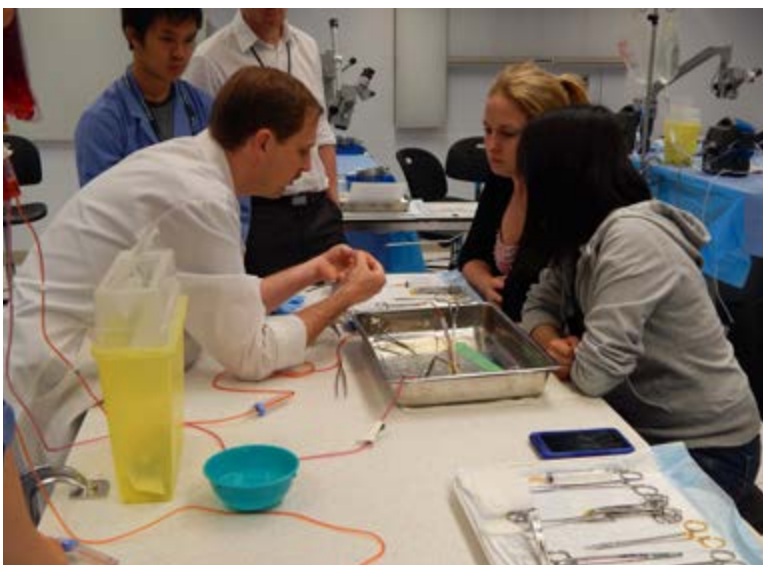
There were two CHIR grants awarded to Division members this year. Dr Dueck and his collaborators Drs Wright and Strauss were funded for 5 year for MR-guided revascularization of occlusive peripheral arterial disease (\$562,215.). Dr Rubin and his collaborator Dr C. Robbins were renewed for a grant titled 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 Altojry completed his Master's Degree in the Institute of Medical Sciences on Vascular Trauma supervised by Dr. Lindsay.

SEADs Vascular Workshop





Left: Vascular Research Day 2013

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 of 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 thank 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 Starsbourg, 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 Therapeutic 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 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*”.

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 "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 reengineer 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 exstrophy that was held in Morocco in May 2013. Both he and Dr. Warren Snodgrass 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

Dr. C.A. Caldarone	Professor
Dr. J. Coles	Professor
Dr. E. Hickey	Assistant Professor
Dr. O. Honjo	Assistant Professor
Dr. G.S. Van Arsdell	Professor (Division Head)

Publications

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Invited Visits

Caldarone CA: Congenital Heart Surgeons’ Society, Chicago, Illinois, United States, 13 September 2012. Invited Speaker: Productivity and Innovation: CHSS Data Center Report.

Caldarone CA: European Association For Cardio-Thoracic Surgery, Barcelona, Spain, 28-29 October 2012. Invited Speaker: Caldarone, C. 1/ Impact of Different Management Protocols on Long Term Outcome. 2/ Management of the Truncal Valve.

Caldarone CA: American Heart Association, Los Angeles, California, United States, 5 November 2012. Invited Speaker: The Good and the Bad About Current 1-Ventricle and 2-Ventricle Scoring Systems.

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: The Society of Thoracic Surgeons, Los Angeles, California, United States, 29-30 January 2013. Invited Speaker: 1/ Traditional and Modified Konno Procedures. 2/ Natural and Modified History of Anomalous Pulmonary Veins from Left Lung.

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.

Caldarone CA: The Society for Heart Valve Disease, Venezia, Italy, 14 June 2013. Invited Speaker: Atrioventricular valve repair in single ventricle physiology.

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: American Heart Association, Los Angeles, California, United States, 5-7 November 2012. Invited Speaker: 1/ Impact of Prenatal Diagnosis on Preoperative Neurological Morbidity in Neonates with Transposition of the Great Arteries. 2/ Surgical Palliation Strategy Does Not Affect Inter-Stage Ventricular Dysfunction or Atrioventricular Valve Regurgitation in Children with Hypoplastic Left Heart Syndrome. 3/ Establishment of Mechanically-Assisted Primary Bidirectional Cavopulmonary Shunt in Neonates and Infants: An Acute Human Pilot Study.

Honjo O: Trillium Gift of Life Network, Multi-Tissue Recovery Meeting, Ontario, Canada, 23 February 2013. Invited Lecturer: Heart for Valves Recovery - Theory for Surgical Process.

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.

Van Arsdell GS: Japanese Association for Thoracic Surgery, Hukuoka [Fukuoka], Japan, 18-19 October 2012. Invited Lecturer: 1/ Video Session: Atrioventricular Valve Repair in the Single Ventricle. 2/ Sutureless Repair in TAPVR: Primary and Redo Procedures.

Van Arsdell GS: Personalized Medicine Symposium, Toronto, Ontario, Canada, 28 October 2012. Invited Lecturer: Personalized Imaging: Can MRI Models Guide Surgical Management.

Van Arsdell GS: Canadian Cardiovascular Congress, Toronto, Ontario, Canada, 28 October 2012. Invited Lecturer: Hybrid Procedure, A Necessity.

Van Arsdell GS: American Heart Association, Los Angeles, California, United States, 5 November 2012. Invited Lecturer: 1/ Hybrid Approaches to the Treatment of Single Ventricle Physiology. 2/ Benefits of Delaying Surgery.

Research and Investigations

Can Sustained Post-Operative Biventricular Pacing Improve Hemodynamics in Children with Electro-Mechanical Dyssynchrony After Surgical Repair of Congenital Heart Disease? Caldarone C. *The Heart and Stroke Foundation*. (\$172,481 2012 - 2014).

The influence of post-operative systemic oxygen transport on neurologic and functional outcomes in infants undergoing single ventricle palliation with Norwood and Hybrid management strategies. Caldarone C. *Heart and Stroke Foundation of Canada*. (Mar 2011 - Feb 2013).

Division of General Surgery

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

Publications

Azzie G, Sathya C, Ertresvaag Kjetil, Wright J. Pelvic Widening to Alleviate the Mechanical Component of Constipation in a Patient with Severe Caudal Regression and Extremely Narrow Pelvis. *Journal of Pediatric Surgery* (2013). 48, E29-31.E Version. Mar 12.

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Beres AL, Wales PW, Christison-Lagay ER, McClure ME, Fallat ME, Brindle ME. Non-Operative Management of High-Grade Pancreatic Trauma: Is it Worth The Wait? *Journal of Pediatric Surgery.* 2013 May; 48(5):1060-4.

Bishay M, Pichler J, Horn V, Macdonald S, Ellmer M, Eaton S, Hill S, Pierro A. Intestinal failure-associated liver disease in surgical infants requiring long-term parenteral nutrition. *J Pediatr Surg.* 2012; 47:359-362.

Bishay M, Retrosi G, Horn V, Cloutman-Green E, Harris K, De Coppi P, Klein N, Eaton S, Pierro A. Septicaemia Due to Enteric Organisms is a Later Event in Surgical Infants Requiring Parenteral Nutrition. *Eur J Pediatr Surg.* 2012; 22:50-53.

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Boutros J, Langer JC. Laparoscopic repair fo anorectal malformations. Spitz L, Coran AG (eds). *Operative Pediatric Surgery 7th Edition.* 2012.

Carnaghan H, Johnson H, Eaton S, De CP, Curry J, Morova M, Cross K, Drake D, Kiely E, Pierro A. Effectiveness of the antegrade colonic enema stopper at preventing stomal stenosis: long-term follow-up. *Eur J Pediatr Surg.* 2012; (22):26-28.

Chami R, Ertresvaag K, Azzie G, Thorner PS. Myofibroblastoma: Report of a Rare Entity in the Pediatric Population. *Pediatr Dev Pathol.* 2012 Nov-Dec;15(6):499-506.

Chavhan GB, Babyn PS, Temple M, Langer JC. Diagnosis of postoperative bile leak and accurate localization of the site of leak by gadobenate dimeglumine-enhanced MR cholangiography in a child. *Pediatr Radiol.* 2013 Jun;43(6):763-6.

Ghionzoli M, James CP, David AL, Shah D, Tan AW, Iskaros J, Drake DP, Curry JI, Kiely EM, Cross K, Eaton S, De Coppi P, Pierro A. Gastroschisis with intestinal atresia-predictive value of antenatal diagnosis and outcome of postnatal treatment. *J Pediatr Surg.* 47:322-328. 2012.

Herrera P, Chiu PPL, Kim PCW. Tracheal stenosis and tracheomalacia. *Operative Pediatric Surgery, Second Edition.* Ed. MM Ziegler, RG Azizkhan, T Weber, D von Allmen, McGraw-Hill, New York. 2012.

Hsiao M, Langer JC. Surgery for suspected rotation abnormality: selection of open vs laparoscopic surgery using a rational approach. *Journal of Pediatric Surgery* 47:904-10, 2012.

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Short Bowel Syndrome. *Journal of Parenteral and Enteral Nutrition (JPEN)*. 2013 May 20. doi: 10.1177/0148607113489151. PMID: 23690158.

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Jancelewicz T, Langer JC, Chiang M, Bonnard A, Zamakhshary M, Chiu PP. Thoracoscopic repair of neonatal congenital diaphragmatic hernia (CDH): outcomes after a systematic quality improvement process. *J Pediatr Surg*. 2013 Feb;48(2):321-5.

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Langer JC, Commentary on Martin L. et al. Rectal biopsy as an aid in the diagnosis of disease of infants and children, "50 years ago in the journal". *Journal of Pediatrics* 162:301. 2013.

Langer JC. Hirschsprung disease. *Curr Opin Pediatr*. 2013 Jun;25(3):368-74.

Langer JC. Abdominal wall defects. *Genetics Home Reference*. National Library of Medicine, National Institutes of Health (<http://ghr.nlm.nih.gov/>). 2012.

Langer JC. Hirschsprung disease. *Coran AG, Adzick NS, Krummel TM, Laberge J-M, Shamberger R* (ed), *Pediatric Surgery*, 7nd edition, Elsevier, Philadelphia 2012, pp1265-78.

Langer JC. Transanal pullthrough for Hirschsprung disease: Fisher J, Jones D (eds). *Mastery of Surgery* 8th edition. Lippencott, Williams and Wilkins, Philadelphia, 2012 pp1836-39.

Langer JC. Laproscopic and transanal pullthrough for Hirschsprung disease. *Seminars in Pediatric Surgery*. 21: 283-90, 2012.

Levin DN, Marcon MA, Rintala RJ, Jacobson, Langer JC. Inflammatory bowel disease manifesting after surgical treatment for Hirschsprung disease. *Journal of Pediatric Gastroenterology and Nutrition*. 55:272-77, 2012.

Macharia EW, Eaton S, De Coppi P, Curry J, Drake D, Cross K, Kiely E, Pierro A. Fundoplication in Ventilator-Dependent Infants with Gastro-oesophageal Reflux. *Eur J Pediatr Surg*. 22:91-96. 2012.

Moran CJ, Guo C-H, Kugathasan S, Klein C, Wolters VM, Walters T, NEOPICS, Bandsma R, Mouzaki M, Langer JC, Cutz E, Benseler S, Roifman CM, Silverberg MS, Griffiths, Snapper SB, Muise A. IL-10R polymorphism associated with very early-onset ulcerative colitis. *Inflammatory Bowel Disease*. *Inflammatory Bowel Disease* 19: 115-123, 2013.

Nah SA, De Coppi P, Kiely EM, Curry JI, Drake DP, Cross K, Spitz L, Eaton S, Pierro A. Duhamel pull-through for Hirschsprung disease: a comparison of open and laparoscopic techniques. *J Pediatr Surg*. 47:308-312. 2012.

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and polytetrafluoroethylene. *Journal of Pediatric Surgery* 47: 1496-500, 2012.

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Temple S, Shawyer AC, Langer JC. Is daily dilatation by parents necessary after surgery for Hirschsprung disease and anorectal malformations? *Journal of Pediatric Surgery* 47:209-12, 2012.

Thyoka M, De Coppi P, Eaton S, Khoo K, Hall NJ, Curry J, Kiely E, Drake D, Cross K, Pierro A. Advanced necrotizing enterocolitis part 1: mortality. *Eur J Pediatr Surg*. 22:8-12. 2012.

Thyoka M, Eaton S, Hall NJ, Drake D, Kiely E, Curry J, Cross K, De Coppi P, Pierro A. Advanced necrotizing enterocolitis part 2: recurrence of necrotizing enterocolitis. *Eur J Pediatr Surg*. 22:13-16. 2012.

Totonelli G, Maghsoudlou P, Garriboli M, Riegler J, Orlando G, Burns AJ, Sebire NJ, Smith VV, Fishman JM, Ghionzoli M, Turmaine M, Birchall MA, Atala A, Soker S, Lythgoe ME, Seifalian A, Pierro A, Eaton S, De Coppi P. A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. *Biomaterials*. 33:3401-3410. 2012.

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Wang Q, Chavhan GB, Babyn PS, Tomlinson G, Langer JC. Utility of computed tomography in the diagnosis and management of small bowel obstructions. *Pediatric Radiology*. 42: 1441-48, 2012.

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.

Azzie GR: American College of Surgeons Annual Clinical Congress, Chicago, Illinois, United States, 30 September 2012. Presenter: Partnership in the Development of a Contextually Appropriate Program in Minimal Access Surgery: Experience in Botswana.

Azzie GR: IRCAD, Strasbourg, France, 21 March 2013. Invited Speaker: How To Reduce The Learning Curve.

Azzie GR: International Pediatric Endosurgery Group, Beijing, China, 21 June 2013. Presenter: 1/ Educating the Next Generation of MIS Surgeons (Acquiring Skills - Measuring Progress). 2/ Pediatric Laparoscopic Skills - Simulator Hands on Lab.

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.

Gerstle JT: Children's Hospital at Dartmouth, Lebanon, New Hampshire, United States, 28 September 2012. Invited Lecturer: Global Child Health.

Gerstle JT: Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States, 28 September 2012. Invited Lecturer: Global Surgery.

Gerstle JT: The Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire, United States, 29 September 2012. Invited Lecturer: Giving Back White Coat Ceremony.

Gerstle JT: The 2nd Kuwait Pediatric Surgery Conference, Kuwait City, Al Kuwayt, Kuwait, 1 December 2012. Invited Speaker: 1/ Wilms' Tumor Protocol Debate: COG vs SIOP. 2/ Overview of Children's Oncology Group Protocols for Wilms' Tumor. 3/ Wilms' Tumor: What's New?

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.

Grant D: Ontario Association of General Surgeons, Toronto, Ontario, Canada, 3 November 2012. Invited Speaker: Blood Borne Pathogens.

Himidan S: Computer Assisted Radiology and Surgery, Heidelberg, Germany, 28 June 2013. Invited Speaker: An Overview of Pediatric Surgery 27th Annual Congress and Exhibition, Computer Assisted Radiology and Surgery, CARS 2013.

Langer JC: Pull through network national conference, Georgia, United States, 28 July 2012. Invited Speaker: Bowel Management in children with Hirschsprung's disease.

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

Langer JC: American Academy of Pediatric Surgical Section, New Orleans, Louisiana, United States, 19 October 2012. Panel: The case for observing the asymptomatic lesion. Panel on Congenital lesions of the lung and mediastinum.

Langer JC: Controversies in Management of Esophageal Atresia, Toronto, Ontario, Canada, 12 December 2012. Invited Panelist: Management of the child with esophageal atresia Webinar.

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: Advances in Perinatal and Pediatric Nutrition, 20th National Conference, Stanford, California, United States, 16 July 2012. Invited Lecturer: 1/ Team Approach to Management of Intestinal Rehabilitation. 2/ Intestinal Failure: Multi-Disciplinary Team Approach.

Wales P: International Pediatric Intestinal Failure and Rehabilitation Symposium, Pittsburgh, Pennsylvania, United States, 7 September 2012. Invited Lecturer: PNALD: Parenteral Nutrition Associated Liver Disease - Clinical Management.

Wales P: Fresenius Kabi Advanced Nutrition Course on Pediatrics, Frankfurt, Hamburg, Germany, 11 October 2012. Invited Lecturer: 1/ Intestinal Failure and Liver Disease. 2/ Peri-Operative Nutrition.

Wales P: 2nd Kuwait Pediatric Surgery Conference, Kuwait City, Al Kuwayt, Kuwait, 1 December 2012. Invited Lecturer: 1/ Short Bowel Syndrome: Factors and Outcomes. 2/ Short Bowel Syndrome: Surgical Therapy. 3/ Intestinal Failure Associated Liver Disease.

Wales P: Canadian Digestive Diseases Week (CDDW) And The Annual Canadian Association For The Study of The Liver (CASL), Victoria, British Columbia, Canada, March 2013. Invited Lecturer: Management of Intestinal Failure Associated Liver Disease.

Wales P: American Society for Nutrition, Experimental Biology, Boston, Massachusetts, United States, 21 April 2013. Invited Lecturer: Quality of Evidence and Perspectives on Evaluation and Use of New Lipid Emulsions.

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

A Pilot Study of Systemic Glucagon Like Peptide Combined With Oral Epidermal Growth Factor and Characterization of Gut Microbiome in Short Bowel Piglets With and Without Ileum. Levesque C, Turner JM, Wales PW, Li J. *A.S.P.E.N. Rhoads Research Foundation*. (\$24900 2012 - 2013).

Adult-to-adult living liver transplantation (A2ALL). *National Institutes of Health (NIH) (USA)*. Grant D, Levy G, Clarke H, Abbey S, Holtzman S. (\$1,500,000 2009 - 2014).

Canadian Biliary Atresia Registry Planning Meeting. Schreiber RA, Fecteau A, Ahmed N, Emil S, Laberge J. *The Canadian Institutes of Health Research (CIHR)*. (\$25,000 2013 - 2014).

ChiDREN: Childhood Liver Disease and Research Network Consortium. Ng V, Avitzur Y, Durie P, Chung C, Fecteau A. *National Institutes of Health*. (\$730,381 2009 - 2014).

Computer Stereo Vision for Image Guided Surgery. Wildes R, Himidan S, Jasiobedzki P, Vesoughi S, Gryn J, Umasuthan M, Shang L. *Ontario Centres of Excellence, Industry Academia* (\$24,999 2012 - 2013).

Disruptive technologies in pediatric and fetal intervention Elgort D, Bocking A, Brisson B, Burns P, Fitzgerald P, Ryan G, Drake J, Wright J, Lymer J, Hynynen K, Babyn P, Windrim R, Farhat W, Milgram P, Rubin S, Blair G, Laberge J. *Canadian Foundation for Innovation*. (\$2,200,000 2009 - 2013).

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

Short Bowel Syndrome and Glucagon-Like Peptide-2 Therapy: Actions and Mechanisms Studied in Neonatal Piglets. Turner JM, Wales PW, Brubaker P, Pencharz PB, Ball RO, Nation PN, Sigalet D, Vine D. *CIHR/IRSC* (\$540,000 2013 - 2017).

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

Agnihotri S, Burrell KE, Wolf A, Jalali S, Hawkins C, Rutka JT, Zadeh G. Glioblastoma, a brief review of history, molecular genetics, animal models and novel therapeutic strategies. *Arch Immunol There Exp*. 2013 Feb; 61(1):25-41.

Akiyama T, Osada M, Isowa M, Go CY, Occhi A, Elliott IM, Akiyama M, Snead OC, Rutka JT, Drake JM, Otsubo H. High kurtosis of intracranial electroencephalogram as a marker of ictogenicity in pediatric epilepsy surgery. *Clinical Neurophysiology*. 2012; 123: pp 93-99.

Al-Ahmed IH, Boughamoura M, Dirks P, Kulkarni AV, Rutka JT, Drake JM. Neurosurgical management of neurenteric cysts in children. *J Neurosurgery Pediatrics*. 2013 May; 11(5):511-517.

Alimova I, Venkataraman S, Harris P, Marquez VE, Northcott PA, Dubuc A, Taylor M, Foreman N, Vibhakar R. Inhibition of Enhancer of Zeste Homologue 2 suppresses medulloblastoma cell growth and is required for Neural stem cell transformation in vitro. *International Journal of Cancer*. 2012. 131(8):1800-9.

Bai AHC, Milde T, Remke M, Rolli CG, Hielscher T, Cho YJ, Kool M, Northcott PA, Bahzin AV, Eichmuller SB, Kulozik AE, Pscherer A, Benner A, Taylor MD, Pomeroy SL, Kemkemmer R, Witt O, Korshunov A, Lichter P, Pfister SM. MicroRNA-182 promoActa Neuropathologicates metastatic dissemination of non-Sonic Hedgehog medulloblastoma. *Acta Neuropathologica*. 2012. 123(4), 529-38.

Behesti H, Bhagat H, Dubuc A, Taylor MD, Marino S. Bmi1 overexpression in the cerebellar granule cell lineage affects cell proliferation and survival without initiating medulloblastoma formation. *Disease Models and Mechanisms*. 2013. 6(1): 49-63.

Castelo-Branco P, Choufani S, Mack S, Gallagher D, Zhang C, Lipman T, Zhukova N, Walker EJ, Martin D, Merinob D, Wasserman JD, Elizabeth C, Alon N, Zhang L, Hovestadt V, Ioot M, Jones DTW, Zadeh G, Croul S, Hawkins C, Hitzler J, Wang JCY, Baruchel S, Dirks PB, Malkin D, Pfister S, Taylor MD, Weksbergo R, Tabori U. Methylation of a specific region in the hTERT promoter is a cancer signature which correlates with tumor grade and survival in pediatric nervous system tumors. *Lancet Oncology*. 2013 May 14. (6):534-42.

Chang JH, Terakawa Y, Smith CA, Rutka JT. Cytogenetic/molecular biology. Thieme Medical Publishers. In: Keating RF, Goodrich JT, Packer RJ, eds. 2nd edition of *Tumors of the paediatric central nervous system*. 2012.

Constantini S, Mohanty A, Zymberg S, Cavalheiro S, Mallucci C, Hellwig D, Ersahin Y, Mori H, Mascari C, Costa Val, JA, Wagner W, Kulkarni AV, Sgouros S, Oi S. Safety and diagnostic accuracy of neuroendoscopic biopsies: An international multicenter study. *J Neurosurg Pediatr*. 2013 Jan. 11(6):704-9.

Daghistani R, Miller E, Kulkarni AV, Widjaja E. Atypical characteristics and behavior of dysembryoplastic neuroepithelial tumors. *Neuroradiology*. 2013 Feb. 55(2):217-22.

Dennis M, Agostino A, Taylor HG, Bigler ED, Rubin K, Vannatta K, Gerhardt CA, Stancin T, Yeates KO. Understanding emotional expression and emotive communication in children with traumatic brain injury. *Journal of the International Neuropsychological Society*. 2013: 19: 34–43.

Dennis M, Simic N, Agostino A, Taylor HG, Bigler ED, Rubin KR, Vannatta K, Gerhardt CA, Stancin T, Yeates, KO. Irony and empathy in children with traumatic brain injury. *Journal of the International Neuropsychological Society*. 2013: 19: 338-348.

Dennis M, Simic N, Bigler ED, Abildskov T, Agostino A, Taylor HG, Rubin KR, Vannatta K, Gerhardt CA, Stancin T, Yeates KO. Cognitive, affective, and conative theory of mind (ToM) in children with traumatic brain injury. *Cognitive Developmental Neuroscience*. 2013: 5: 25– 39.

Dennis M, Simic N, Taylor HG, Bigler ED, Rubin KR, Vannatta K, Gerhardt CA, Stancin T, Yeates, KO. Theory of mind in children with traumatic brain injury. *Journal of the International Neuropsychological Society*. 2012: 18: 908-916.

Dennis M, Sinopoli K, Chevrier A, Schachar RJ. The response inhibition construct: Development, biology, brain bases, neuropsychiatric disorders, and rehabilitation. In *Executive Function*, Hoskyn M, Iarocci G, Young A, (eds) Oxford University Press 2012.

Diaz RJ, Golbourn B, Shekarforoush M, Smith CA, Rutka JT. Aurora kinase B/C inhibition impairs malignant glioma growth in vivo. *Journal of Neuro-Oncology*. 2012; 108: pp 349-360.

Di Rocco F, Grevent D, Drake JM, Boddaert N, Puget S, Roujeau T, Blauwblomme T, Zerah M, Brunelle F, Sainte-Rose C. Changes in intracranial CSF distribution after ETV. *Childs Nerv Syst*. 2012 Jul;28(7):997-1002.

Doucette TA, Yang Y, Pedone C, Kim YJ, Dubuc A, Northcott PA, Taylor MD, Fults DW, Rao G. WIP1 Enhances Tumor Formation in a Sonic Hedgehog-Dependent Model of Medulloblastoma. *Neurosurgery*. 2012; 70(4):1003-10.

Drake JM, Singhal A, Kulkarni AV, De Veber G, Cochrane DD; Canadian Pediatric Neurosurgery Study Group. Consensus definitions of complications for accurate recording and comparisons of surgical outcomes in pediatric neurosurgery. *J Neurosurg Pediatr*. 2012 Aug;10(2):89-95.

Dubuc AM, Kloosterhof NK, Yu EP, Northcott PA, Grajkowska W, Van Meter T, Eberhart CG, Pfister SP, Weiss WA, Scherer SW, Rutka JT, French PJ, Taylor MD. Subgroup Specific Alternative Splicing and Promoter Usage in Medulloblastoma. *Acta Neuropathologica*. *Acta Neuropathologica* 2012. 123(4), 485-99

Dubuc AM, Mack S, Unterberger A, Northcott PA, Taylor MD. The Epigenetics of Brain Tumors. *Cancer Epigenetics: Methods and Protocols, Methods in Molecular Biology*. 2012; 863:139-153.

Dubuc AM, Morrissy AS, Kloosterhof NK, Northcott PA, Yu EP, Smith D, Peacock J, Grajkowska W, van Meter T, Eberhart CG, Pfister S, Marra MA, Weiss WA, Scherer SW, Rutka JT, French PJ, Taylor MD. Subgroup-specific alternative splicing in medulloblastoma. *Acta Neuropathologica*. 2012: 123: pp 485-499.

Dubuc A, Northcott PA, Pfister S, Taylor MD. Molecular Subgroups of Medulloblastoma. *Expert Reviews of Neurotherapeutics*. 2012; 26(16): 1780-96.

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Invited Visits

Dennis M: Hydrocephalus Association, Opportunities for Hydrocephalus Research: Pathways to Better Outcomes. Seattle, Washington, United States, 9 July 2012. Invited Lecturer: Spina bifida and hydrocephalus across the lifespan: Adult.

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: National Academy of Neuropsychology, Nashville, Tennessee, United States, 9 November 2012. Invited Lecturer: Spina bifida: Gene, brain, and behavior over the lifespan.

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: Abarnanel 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: Seve Ballesteros Foundation Special Conference on Brain Cancer, Barcelona, Spain, 7 July 2012. Invited Lecturer: The Glioblastoma Stem Cell Phenotype and Therapeutic Targeting.

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

Dirks PB: Innovation to Cancer Treatment, Bangkok, Thailand, 29 January 2013. Invited Lecturer: Pediatric Brain Tumor Surgery.

Dirks PB: ASPN, Kauai, Hawaii, United States, 14 February 2013. Invited Lecturer: Rolandic AVMs in Children: Pre-operative and Intra-operative Strategies to Facilitate Safe Resection.

Dirks PB: BIO, Chicago, Illinois, United States, 24 April 2013. Invited Lecturer: Dissecting brain tumour heterogeneity: implications for novel therapies Rare Diseases Summit.

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

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: American Academy of Neurosurgery, Chatham Bar, Massachusetts, United States, 20 October 2012. 1/ Invited Lecturer: Introduction of the President - Dr. James T. Rutka. 2/ Presenter: Patient Specific Modeling for Pediatric Craniofacial Reconstruction.

Drake JM: Congress of Neurosurgery, Chicago, Illinois, United States, October 2012. Presenter: Masters of Neuro Endoscopy - Complication avoidance in Intraventricular endoscopy.

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: 5th International Federation of Chinese Neurosurgery, Tainan, Taiwan, Province Of China, November 2012. Presenter: Pediatric Hydrocephalus.

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: Yale University School of Medicine, New Haven, Connecticut, United States, 19 September 2012. Invited Speaker: Human brain tumours: Towards personalized medicine and surgery. Grand Rounds.

Rutka JT: World Academy of Neurological Surgeons, Phoenix, Arizona, United States, 12 October 2012. Presenter: Rolandic AVMs in children: Pre-operative and intra-operative strategies to facilitate safe resection.

Rutka JT: American Academy of Neurological Surgeons, Chatham, Cape Cod, Massachusetts, United States, 19 October 2012. Distinguished Speaker: W.S. Keith and the Founder Effect.

Rutka JT: The Society for NeuroOncology, Washington, District of Columbia, United States, 16 November 2012. Abhijit Guha Lecturer: Glioblastoma invasion: Advances from the leading edge.

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: Neuroscience Conference, Sao Paulo, Brazil, 8 December 2012. Invited Speaker: The molecular genetics of medulloblastoma and other paediatric brain tumours. Dec. 8, 2012.

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: Division of Neurosurgery, Chinese University of Hong Kong, Shatin, Hong Kong, 18-19 January 2013. Visiting Professor: 1/ Paediatric neurosurgical-oncology: What you need to know. 2/ Epilepsy surgery in children - expected outcomes and can anyone do it? 3/ The molecular biology of human brain tumours, transforming treatment opportunities for patients. Mr. Otto Lien Da Wong Lectureship in Neuro-Oncology.

Rutka JT: 36th Annual Meeting, American Society of Pediatric Neurosurgeons, Kauai, Hawaii, United States, 12-13 February 2013. 1/ Invited Speaker: Effective targeting of metastatic phenotypes in medulloblastoma with Foretinib, a multikinase inhibitor that crosses the blood-brain barrier. 2/ Epilepsy Moderator: Symposium III

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: 81st AANS Annual Meeting: AANS/CNS Tumor Section, New Orleans, Louisiana, United States, 30 April 2013. Presenter: Fourth Ventricular and Brainstem Tumors.

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: Society for Neuro-Oncology Annual General Meeting, Washington, District of Columbia, United States, 17 November 2012. 1/ Invited Plenary: Ependymoma. 2/ Invited Lecturer: Metastatic Medulloblastoma is a Bicompartamental Disease Secondary to Clonal Selection.

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: Mayo Clinic, Jacksonville, Florida, United States, 18 March 2013. Invited Lecturer: Jacksonville, Florida. March 18, 2013. Molecular Heterogeneity Drives and Explains The Clinical Behavior of Pediatric Brain Tumors.

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.

Taylor MD: Pediatric Brain Tumor Foundation, Fort Lauderdale, Florida, United States, 15 May 2013. Invited Lecturer: On the perils and promise of being Cassandra. Novel prognostic markers for medulloblastoma Pediatric Brain Tumor Foundation Annual Institute Meeting.

Taylor MD: Society of Neuro-Oncology, Fort Lauderdale, Florida, United States, 17 May 2013. Invited Lecturer: Epigenetics of Medulloblastoma and Ependymoma Society for Neuro-Oncology Pediatric Meeting.

Research and Investigations

Addressing tumor heterogeneity through targeting of subgroup specific shared maintenance genes – the correct target for each cancer. Egan S, Woodgett J, Zacksenhaus E, Taylor MD: CIHR Team Grant – Terry Fox Frontiers Program. (\$3,032,612 2011 - 2014).

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

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

Blockade of aberrant HGF/cMET signaling in medulloblastoma. Rutka J: Canadian Cancer Society Research Institute. (\$432,000 2011 - 2014).

Cellular and Genetic Basis of Anaplastic Medulloblastoma. Taylor MD, Weiss B, Wech-Reya R: National Institute of Health (\$2,686,145 2011 - 2016).

Centre for Computer-Assisted Intervention and Innovation (CCAII). Burns P, Babyn P, Bocking A, Cyril X, Kim P, Laberge J-M, Lymer J, Milgram P, Reznick R, Van Vaals J, Alman B, Amaral J, Bass J, Bratu I, Chait P, Drake J, Farhat W, Fitzgerald P, Giacomantonio M, Hedden D, Hynynen K, Jones S, Langer J, Newhook P, Ryan G, Sigalet D, Skarsgard E, Yazbeck S. Ontario Research Fund Research Excellence. (\$3,395,000 2008 - 2012).

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

CSF levels of L1CAM and amyloid precursor protein in post-hemorrhagic hydrocephalus of prematurity. Limbrick D, Inder T, Holtzman M, Leonard J, Kulkarni AV, Kestle JR, Riva-Cambrin J, Wellons JC, Park TS, Holukbov R, Whitehead WE: National Institutes of Health (NIH) (USA). (\$794,780 2012 - 2017).

Defining cancer stem cell and clonal heterogeneity in mouse brain tumours. Dirks PB: Canadian Cancer Society. (\$548,000 2009 - 2013).

Development of a tool to measure school performance in children following traumatic brain injury. Kulkarni AV: CIHR Research Fellowship. (\$275,000 2010 - 2015).

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 and Metastases. Taylor M, Weiss B (UCSF): National Institutes of Health (NIH) (USA). (\$2,815,548 2010 - 2015).

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

Molecular targeting of the Rho-GTPase pathway in human astrocytomas. Rutka JT, Hynynen K, Mainprize T: Canadian Institutes of Health Research (CIHR). (\$797,005 2010 - 2015).

MRgFUS for intraventricular hemorrhage of prematurity. “Chase an Idea”. James A, Looi T, Drake J: Neuroscience Mental Health Centre (\$39580.00 CAD, May 2012 - Apr 2013).

Non-invasive MRgFUS treatment of Pediatric Neurological Disorders. Drake JM: Brain Canada MIRI. (2012).

Pneumatic Otoscopy. Drake JM: Ontario Centres of Excellence. (\$25,000 2012 - 2013).

Post-infectious hydrocephalus in African infants: Causes, prevention and treatment. Kulkarni AV: National Institutes of Health (NIH) (USA), NINDS. (\$356,401 2013 - 2015).

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

Optosim. Drake JM: Ontario Centres of Excellence. (\$25,000 2013).

Role of Histone Lysine Methylation in Medulloblastoma and Cerebellar Development. Taylor MD: Canadian Institutes of Health Research (CIHR). (\$540,219 2010 - 2013).

Stratifying and Targeting Medulloblastoma Through Genomics. Taylor MD: Genome Canada. (\$9,856,814 2011 - 2014). [Grants]

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

The influence of post-operative systemic oxygen transport on neurologic and functional outcomes in infants undergoing single ventricle palliation with Norwood and Hybrid management strategies. Caldarone C, Dirks PB: *Heart and Stroke Foundation of Canada*. (Mar 2011 - Feb 2013).

The Pediatric TBI CT Scan Tool. Guerguerian AM, Hutchison J, Parshuram C, Kulkarni AV, Laughlin S, Widjaja E, Willan AR: *Ontario Neurotrauma Foundation (ONF)*. (\$99,975 2010 - 2012).

The role of dysregulated HGF/c-Met pathway signalling in medulloblastoma dissemination. Rutka J: Brain Tumour Foundation of Canada. (\$24,766 2011 - 2012).

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

Vectors, epigenetics, and stem cell reprogramming. Ellis J, Manger D, Dillworth J, Lorincz M, Dirks PB: Canadian Institutes of Health Research (CIHR). (\$497,495 2008 - 2013).

White matter brain injury in children with hydrocephalus. Kulkarni AV, Mabbot D, Widjaja E, Donnelly R: PSI Foundation. (\$98,000 2008 - 2013).

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. M.L. Murnaghan	Assistant Professor
Dr. S. Hopyan	Assistant Professor	Dr. U. Narayanan	Associate Professor
Dr. A. Howard	Associate Professor	Dr. J.H. Wedge	Professor
Dr. S. Kelley	Assistant Professor	Dr. J.G. Wright	Professor
Dr. S. Lewis	Associate Professor	Dr. R. Zeller	Associate Professor

Publications

Ali SA, Alman B. RNA extraction from human articular cartilage by chondrocyte isolation. *Analytical Biochemistry*. 2012 Jul; 429(1): 39-41.

Alman BA. Desmoid tumors: Are they benign or malignant? In: *Desmoid Tumors*. (Litchman C, ed), Springer Science and Business Media, Part 3, Chapter 13, Stamford, Connecticut. 2012: pp 195-203.

Alman BA, Ferguson P, Kraemer W, Nousiainen M, Reznick R. Competency-based education: A new model for teaching orthopaedics. *AAOS. ICL Course Lecture*. 2013: Chapter 62. pp 565-569.

Alves C, Steele M, Narayanan U, Howard AW, Alman B, Wright J. Open reduction and internal fixation of unstable slipped capital femoral epiphysis by means of surgical dislocation does not decrease the rate of avascular necrosis: a preliminary study. *Journal of Children's Orthopaedics*. August 2012; 6(4): 277-283.

Bederman SS, Wright JG. Randomized trials in surgery: how far have we come? *The Journal of Bone and Joint Surgery*. 2012 Jul; 94 Suppl 1:2-6.

Bielefeld KA, Amini-Nik S, Alman BA. Cutaneous wound healing: Recruiting developmental pathways for regeneration. *Cellular and Molecular Life Sciences*. 2013 Jun. 70(12): 2059-2081.

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.

Buckwalter JA, Wright T, Mogoanta L, Alman B. Plagiarism: an assault on the integrity of scientific research. *J Orthop Res*. 2012 Dec; 30(12): 1867-1868.

Capra L, Levin AV, Howard AW, Shouldice M. Characteristics of femur fractures in ambulatory young children. *Emergency Medicine Journal*. Epub 2012 Oct 4.10.1136/emered-2012-201547.

Cohen E, Lacombe-Duncan A, Spalding K, MacInnis J, Nicholas D, Narayanan UG, Gordon M, Margolis I, Friedman JN. Integrated complex care coordination for children with medical complexity: a mixed-methods evaluation of tertiary care-community collaboration. *BMC Health Serv Res*. 2012 Oct 23;12:366.

Craft AM, Ahmed N, Rockel JS, Baht GS, Alman BA, Kandel RA, Grigoriadis AE, Keller GM. Specification of chondrocytes and cartilage tissues from embryonic stem cell. *Development*. 2013 Jun;140(12):2597-2610.

Cuomo AV, Howard AW, Hsueh S, Boutis K. Gartland Type I Supracondylar Humerus Fractures in Children: Is Splint Immobilization Enough? *Pediatric Emergency Care*. 2012; 28(11):1150-1153.

Dodwell E, O'Callaghan J, Anthony A, Jellicoe P, Shah M, Curtis C, Clarke H, Hopyan S. Combined glenoid anteversion osteotomy and tendon transfers for brachial plexus birth palsy: early outcomes. *J Bone Joint Surg Am*. 2012 Dec 5;94(23):2145-52.

Dodwell E, Snyder B, Wright JG. Off-label use of bone morphogenetic proteins in pediatric spinal arthrodesis. *JAMA*. 2012 Oct;308(14):1429-1432.

Gardner ROE, Kelley SP. Infection. *Postgraduate Paediatric Orthopaedics: The Candidate's Guide to the FRCS(Tr&Orth) Examination*. 2013 May.

Ho L, Ali SA, Al-Jazrawe M, Kandel R, Wunder JS, Alman BA. Primary cilia attenuate hedgehog signalling in neoplastic chondrocytes. *Oncogene*. 2012 Dec 17. (Epub ahead of print).

- Howard AW, Camden A, Macarthur C, Maguire J, Birken C, Parkin P.** Temperament and fracture risk among preschool children: a target kids! Cross-sectional survey. *Injury Prevention*. 2012 Oct;18:A109-A110 doi:10.1136/injuryprev-2012-040590d.43.
- Hsu SH, Zhang X, Cheng S, Wunder JS, Hui CC, Alman BA.** Suppressor of fused (Sufu) mediates the effect of parathyroid hormone-like hormone (Pthlh) on chondrocyte differentiation in the growth plate. *Journal of Biological Chemistry*. 2012 Nov. 287(43): 36222-36228.
- Ibrahim T, Howard AW, Murnaghan ML, Hopyan S.** Percutaneous curettage and suction for pediatric extremity aneurysmal bone cysts: is it adequate? *J Pediatr Orthop*. 2012 Dec;32(8):842-7.
- Jarvis JC, Strantzas S, Lipkus M, Holmes LM, Dear T, Magana S, Lebel DE, Lewis SJ.** Responding to Neuromonitoring Changes in 3-Column Posterior Spinal Osteotomies for Rigid Pediatric Spinal Deformities. *Spine* 2013; 38(8): E493-E503.
- Jones KB, Ferguson PC, Lam B, Biau DJ, Hopyan S, Dehesi B, Griffin AM, White LM and Wunder JS.** Effects of neoadjuvant chemotherapy on image-directed planning of surgical resection for distal femoral osteosarcoma. *J Bone Joint Surg Am*. 2012 Aug 1;94(15):1399-405.
- Kelley SP, Bradley CS, Wedge JH.** El manejo quirurgico de la displasia del desarrollo de la cadera luxada. Tecnica quirurgica, optimizando los resultados y resultados a largo plazo. (The operative management of the developmentally dislocated hip: Surgical technique, optimizing outcomes and long-term results). *Rev Mex Ortop Ped* 2013 Jun;15(1): 32-39. Spanish.
- Kelley SP, Wedge JH.** Management of Hip Instability on Trisomy 21. *Journal of Paediatric Orthopaedics*. 2013 Jun; 33.Suppl 1.S33-8.
- Lebel DE, Corston JA, McAdam LC, Biggar D, Alman BA.** Glucocorticoid treatment for the prevention of scoliosis in children with Duchenne Muscular Dystrophy: Long term follow-up. *Journal of Bone and Joint Surgery (Am)*. 2013 Jun 19. 95(12): 1057-1061.
- Leung A, S Luu, G Regehr, ML Murnaghan, S Gallinger, CA Moulton, First Do No Harm: Balancing competing priorities in surgical practice.** *Academic Medicine*. October 2012; 87(10): 1368-1374.
- Lewis SJ, Abbas H, Chua S, Bacon S, Bronstein Y, Magana S, Sullivan K, Dold AP, Bodrogi A.** Upper Instrumented Vertebral Fractures in Long Lumbar Fusions. *Spine* 2012; 37(16): 1407-1414.
- Luu S, Patel P, St-Martin L, Leung SOA, Regehr G, Murnaghan ML, Gallinger S, Moulton CA.** Waking up the next morning: Surgeons' emotional reactions to adverse events. *Medical Education*. 2012 December; 46(12):1179-1188.
- Maezawa Y, Binnie M, Li C, Thorner P, Hui CC, Alman B, Taketo MM, Quaggin SE.** A new Cre driver mouse line, Tcf21/Pod1-Cre, targets metanephric mesenchyme. *PLoS ONE*. 2012 Jul 6. 7(7): e40547.
- Mehlman CT, Howard AW.** Medial epicondyle fractures in children: clinical decision making in the face of uncertainty. *Journal of Pediatric Orthopaedics*. 2012 Sep;32 Suppl 2:S135-42.
- Murnaghan ML, Popejoy D.** OKU 11: Pediatrics: Lower Extremity Trauma. *OKU 11*. 2012 Nov 16.
- Nakajima M, Mizumoto S, Miyake N, Kogawa R, Iida A, Ito H, Kitoh H, Hirayama A, Mitsubuchi H, Miyazaki O, Kosaki R, Horikawa R, Lai A, Mendoza-Londono R, Dupuis L, Chitayat D, Howard A, Leal G, Cavalcanti D, Tsurusaki Y, Saito H, et al.** Mutations in B3GALT6, which Encodes a Glycosaminoglycan Linker Region Enzyme, Cause a Spectrum of Skeletal and Connective Tissue Disorders. *The American Journal of Human Genetics*. 2013 Jun; 92:1-8.
- Narayanan UG.** Management of children with ambulatory cerebral palsy: An evidence based review. *Journal of Pediatric Orthopaedics*. 2012 Sep. PMID: 22890458.
- Rothman L, Buliung R, Macarthur Colin, To Teresa, Howard AW.** Walking and child pedestrian injury: a systematic review of built environment correlates of safe walking. *Injury Prevention*. 2013 May 24; doi:10.1136/injuryprev-2012-040701.
- Rothman L, Howard AW, Camden A, Macarthur C.** Pedestrian injury at signalised midblock versus signalised intersections locations in Toronto, Canada. *Injury Prevention*. 2012 Oct;18:A222-A223 doi:10.1136/injuryprev-2012-040590v.14.
- Rothman L, Macarthur C, Buliung R, To T, Howard AW.** Walkable but unsafe? a systematic review of built environment correlates of walking and child pedestrian injury. *Injury Prevention*. 2012 Oct;18:A223 doi:10.1136/injuryprev-2012-040590v.16.

- Rothman L, Macarthur C, Buliung R, To T, Howard A.** Determinants of Parent Perceptions of Dangerous Traffic Related to School Travel. *Injury Prevention*. 2012 Oct;18:A82 doi:10.1136/injuryprev-2012-040580g.32.
- Rothman L, Macarthur C, Buliung R, To T, Howard A.** The relationship between walking to school and child pedestrian injury in Toronto, Canada. *Injury Prevention*. 2012 Oct;18:A223 doi:10.1136/injuryprev-2012-040590v.15.
- Tsoi KM, Dai Q, Alman BA, Chan WC.** Are quantum dots toxic? Exploring the discrepancy between cell culture and animal studies. *Acc Chem Res*. 2012 Aug 1. (Epub ahead of print).
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- Wang CY, Wei Q, Han I, Sato S, Ghanbari-Azarnier R, Whetstone H, Poon R, Hu J, Zheng F, Zhang P, Wang W, Wunder JS, Alman BA.** Hedgehog and notch signaling regulate self-renewal of undifferentiated pleomorphic sarcomas. *Cancer Research*. 2012; 72(4): 1013-1022.
- Wedge JH, Kelley SP.** Strategies to improve outcomes from operative childhood management of DDH. *Orthop Clin North Am*. 2012 Jul; 43(3):291-9.
- Wilson JR, Vaccaro A, Harrop JS, Aarabi B, Shaffrey C, Dvorak M, Fisher C, Arnold P, Massicotte E, Lewis S, Rampersaud R, Okonkwo DO, Fehlings MG.** The Impact of Facet Dislocation on Clinical Outcomes After Cervical Spinal Cord Injury. *Spine*. 2013 Jan. 38(2): 97-103.
- Wright JG, Kocher MS, Sanders JO.** Evidence-based pediatric orthopaedics: an introduction, part 1. *J Pediatr Orthop*. 2012 Sept; 32 Suppl 2:S83-90.
- Wright JG, Kocher MS, Sanders JO.** Evidence-based pediatric orthopaedics: an introduction, part 2. *J Pediatr Orthop*. 2012 Sept 32 Suppl 2:S91-4.
- Wright JG, Swiontkowski MF, Tolo VT.** Meta-Analyses and systematic reviews: new guidelines for JBJS. *The Journal of Bone and Joint Surgery*. 2012 Sept; 94(17): 1537.
- Wright JG, Tolo VT.** JBJS and evidence-based orthopaedics. *J Pediatr Orthop*. 2012 Sep, 32 Suppl 2:S101-3.
- 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:** Canadian Orthopaedic Association, Toronto, Ontario, Canada, 18 August 2012. Invited Speaker: Overview of Cell Biology of Musculoskeletal System.
- 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:** MHE Research Conference - Children’s Hospital of Philadelphia/University of Pennsylvania, Philadelphia, Pennsylvania, United States, 3 November 2012. Invited Speaker: Hedgehog Signaling, Isocitrate Dehydrogenase, and Tumor Initiating Cells in the Growth Plate, Enchondromas, and Chondrosarcomas.
- Alman BA:** 9th Annual International Pediatric Orthopaedic Symposium presented by POSNA and AAOS, Orlando, Florida, United States, 1 December 2012. Presenter: The Painful Hip with AVN After Chemotherapy: Evaluation and Treatment.
- Alman BA:** Orthopaedic Research Society, San Antonio, Texas, United States, 26 January 2013. Invited Speaker: 1/ How to network: Mentoring for young investigators. 2/ Pericytes and Tumor Initiating Cells in Sarcoma: Implications for a Novel Treatment Approach.
- 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.

Alman BA: Pediatric Orthopaedic Society of North America, Chicago, Illinois, United States, 23 March 2013. Presenter: How to Train Fellows in the Open Clubfoot Experience.

Alman BA: Gordon Research Conference on Cartilage Biology & Pathology, Les Diablerets, Vaud (fr), Switzerland, 7 April 2013. Discussion Leader: Cartilage Diseases.

Alman BA: Osteoarthritis Research Society International (OARSI), Philadelphia, Pennsylvania, United States, 20 April 2013. Invited Speaker: Hedgehog Signaling in OA.

Alman BA: Pediatric Orthopaedic Society of North America (POSNA), Toronto, Ontario, Canada, 3 May 2013. Presenter: 1/ Long Term Effects of Glucocorticoid Treatment in Duchenne Muscular Dystrophy on Scoliosis. 2/ Improving Bone Health in Neurofibromatosis: A Study in Mice. 3/ The Effect of BMP's on Pseudarthrosis and Bone Repair. 4/ Patient Outcomes in the Operative and Non-Operative Management of High-Grade Spondylolisthesis in Children.

Hopyan S: Childhood Cancer Awareness Symposium, London Health Sciences Centre, London, Ontario, Canada, 26 September 2012. Keynote Speaker: Sarcoma Surgery for Children. Keynote Address.

Hopyan S: Grand Rounds, Department of Orthopaedics, University of Western Ontario, London, Ontario, Canada, 26 September 2012. Invited Speaker: Sarcoma Surgery for Children: Embracing Uncertainty.

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.

Howard A: Scoliosis Research Society, 2012. Presenter: The Efficacy of Intraoperative Gardner-Wells Skull Tong -Unilateral Femoral Traction in Correction of Pelvic Obliquity in Non-Ambulatory Cerebral Palsy Patients; A Retrospective Comparative Study.

Howard A: POSNA, Toronto, Ontario, Canada, 1 May 2013. Presenter: 1/ Childhood Fracture Begets Childhood Fracture: A Populationbased Study of Longitudinal Fracture Patterns. 2/ Evidence Into Practice: Short Arm Splints 3 For Distal Radius Fractures.

Kelley S: International Hip Dysplasia Institute, Mexico City, México, Mexico, 31 August 2012. Invited Lecturer: 1/ Closed Reduction and Spica Casting for DDH. 2/ Open Reduction and Innominate Osteotomy. 3/ Strategies for Improving Operative Outcomes in the Childhood Management of DDH. 4/ The Long-Term Outcomes of Open Reduction and Innominate 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.

Kelley S: Pediatric Orthopaedic Society of North America (POSNA), Toronto, Ontario, Canada, May 2013. Presenter: EOS Low-dose Biplanar Radiography: The New Gold Standard in Radiographic Limb Length Assessment.

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

Lewis SJ: Scoliosis Research Society 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 19, 2012. Invited Speaker: Spondylolisthesis: Surgical Options for Degenerative Spondylolisthesis. Invited Speaker: 1/ Instructional Course Lectures. 2/ Debate - Optional Treatment of Moderate (30 -Degree) Thoracolumbar Scoliosis with Stenosis in 70 Year-Old.

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

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

Lewis S: Advances in Spinal Deformity: International Symposium and Cadaveric Workshop, Medtronic, Singapore, November 28-29, 2012. 1/ Presenter: Kyphosis: O-Arm Overview. 2/ Presenter: Kyphosis: Smith Petersen/Ponte Osteotomies. 3/ Chair: Meeting Discussion- Q & A. 4/ Presenter: Biomechanics for the Spine Surgeon. 5/ Discussant: Indications and Techniques of Reduction in High-Grade Spondylolisthesis.

Lewis S: Broad Water 22nd Annual Dr. Tom Lowe Spine Symposium, Beaver Creek, Colorado, United States, January 19-21, 2013. Lecturer: 1/ Middle-aged Patient with Prior Instrumented Fusion to the Lumbar Spine. Subsequent Breakdown and Degeneration Below. No Major Coronal or Sagittal Malignment. 2/ Role of Neuromonitoring for Adult Spinal Deformity SSEP vs. DNEP vs. TCMEP vs. Triggered EMG. 3/ 66-year-old Woman with Previous Anterior Posterior Instrumented Fusion with Persistent Sagittal and Coronal Malignment. 4/ Sagittal Imbalance in the Elderly Patient: When Should it be Treated? 5/ Progressive Kyphosis in spite of Multiple Surgeries. Multiple Non-unions. Role of Anterior and Posterior Surgery and Osteotomy(s). 6/ Failures in Adult Deformity Cases. Why did they Fail? Who Can and Can't be Fixed? How to Fix the Fixable Patients. What Outcomes are to be Expected?

Lewis S: AOSpine, Muscat, Oman, February 23-24, 2013. 1/ Keynote Lecturer: Complications in Spine Surgery: How to identify and Manage? 2/ Presenter: Post session evaluation - ARS. 3/ Presenter: Session summary and learning outcomes. 4/ Presenter: Pre session Evaluation - ARS. 5/ Moderator: Thoracolumbar Trauma. 6/ Presenter: Miscellaneous Spinal Pathology. 7/ Presenter: Case presentation: A spinal lesion; is it infection, tumor, or else? 8/ Presenter: Subaxial cervical trauma: Management Principles. 9/ Presenter: Idiopathic Scoliosis: Classifications & Management Principles. 10/ Presenter: Failed back syndrome: Management and Prevention.

Lewis S: Stryker, Hamburg, Germany, February 28-March 1, 2013. 1/ Invited Lecturer: Adolescent Idiopathic Scoliosis- Treatment Principles: Anterior vs. Posterior vs. MIS. 2/ Lecturer: Combined Cervical Thoracic Fixation. Cervical Deformity. 3/ Lecturer: Sagittal Profile. 4/ Invited Speaker: The Principles and Application of Sagittal Spinal Alignment in Deformity Corrections. 5/ Invited Speaker: Case Presentation: Restoring Sagittal Balance.

Lewis S: Fundamentals in Spinal Deformity Care: Case to Demonstrate Fusion to Upper Thoracic Spine. OA Spine. Hong Kong, April 3, 2014. Invited Speaker: Case Presentation with Panel Discussion.

Lewis S: The Latest Techniques for Severe Deformities. POSNA. Toronto, Ontario, Canada, May 1, 2013. Invited Lecturer: Care for the Young Patient with a Complex Orthopaedic Problem: A Global Perspective.

Murnaghan ML: COA Basic Science Course, Toronto, Ontario, Canada, 22 August 2012. Invited Speaker: Pediatric Orthopaedics - Fractures and Infections.

Murnaghan ML: Chilean Orthopaedic and Traumatology Society, Santiago, Región Metropolitana de Santiago, Chile, 21 November 2012. Visiting Professor: Postgraduate Education Conference.

Murnaghan ML: Rocky Mountain Hospital for Children, POSNA, AOSSM, Vail, Colorado, United States, 22 January 2013. Invited Speaker: Pediatric Sports Medicine and Trauma Symposium Sternoclavicular Dislocations and Fractures.

Murnaghan ML: Association for Surgical Education, Orlando, Florida, United States, 23 April 2013. Presenter: Fellow Selection in Orthopaedics: A Qualitative Study.

Murnaghan ML: University of Pennsylvania, Philadelphia, Pennsylvania, United States, 27 April 2013. Invited Speaker: Cartilage Symposium Osteochondritis Dissecans of the Knee.

Murnaghan ML: Pediatric Orthopaedic Society of North America – Annual Meeting, Toronto, Ontario, Canada, 4 May 2013. Invited Speaker: Sports Medicine Subspecialty Day Hip Arthroscopy.

Murnaghan ML: International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine and FIFA, Toronto, Ontario, Canada, 11 May 2013. Invited Speaker: FIFA - ISAKOS Course - Soccer Injuries Pediatric and Adolescent Knee Injuries in Soccer.

Murnaghan ML: The Canadian Orthopaedic Residents Association, Winnipeg, Manitoba, Canada, 19 June 2013. Invited Speaker: Fellowship Training in Orthopaedics and Transition to Practice.

Murnaghan ML: The Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20-21 June 2013. 1/ Invited Speaker: Top 10 Questions asked by Orthopaedic Fellows - Education Symposium. 2/ Presenter: Fellow Selection in Orthopaedics: A Qualitative Study. 3/ Moderator: Education Paper Session.

Narayanan U: International Pediatric Orthopedic Think Tank, Cannes, France, 20 September 2012. Speaker: Introducing the Goal: Development Of A Priority Based Gait Outcome Measure For Ambulatory Children With Cerebral Palsy.

Narayanan U: Children's Hospital, British Columbia, Vancouver, British Columbia, Canada, 9 November 2012. Speaker: 1/ The Hip In Cerebral Palsy; The Ins And Outs 2/ Are We Making A Difference? Measuring Meaningful Outcomes In Children Wth Disabilities.

Narayanan U: POSNA and AAOS, Florida, United States, 28 November 2012. Facilitator: 9th Annual International Pediatric Orthopaedic Symposium.

Narayanan, Unni: St. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, Canada, 12 March 2013. Speaker: 1/ Angular Deformities 2/ Strategies For Treatment Of The Lower Extremities In The Ambulatory Cerebral Palsy Patient.

Narayanan U: Pediatric Orthopaedic Society of North America, Toronto, Ontario, Canada, 30 April 2013. Speaker: 1/ Lower Extremity Deformity And Reconstruction 2/ Evidence Into Practice: Short Arm Splints For Distal Radius Fracture 3/ The CP Child Questionnaire Is Sensitive To Change Following Hip Reconstructive Surgery to Children With Severe Cerebral Palsy 4/ Botulinum Toxin Type A Injection in Alleviating Post-Operative Pain and Improving Quality Of Life in Lower Extremity Limb Lengthening and Deformity Correction 5/ EOS Low-Dose Biplanar Radiography: The New Gold Standard in Radiographic Assessment Of Lower Limb Lengths 6/ 'Reactive' Surgery Better 7/ Biomechanical Validation Of The Unloading Knee Brace in Juvenile Osteochondritis Dissecans Using Gait Analysis 8/ Should Routine Proximal Femoral Hardware Removal Be Performed in Children With Cerebral Palsy?

Wedge JH: International Paediatric Orthopaedic Think Tank, Cannes, France, 21 September 2012. Invited Speaker: A comparison of closed and medial open reduction for DDH.

Wedge JH: Paediatric Orthopaedic Society of North America Annual Meeting - Hip Subspecialty Day, Toronto, Ontario, Canada, 3 May 2013. Keynote Speaker: Avascular necrosis and redislocation following closed and open reduction.

Wright JG: International Pediatric Orthopaedic Think Tank (IPOTT), Cannes, France, 20 September 2012. Invited Speaker: 1/ Residual club foot deformity after 5 years of age. 2/ Open reduction and internal fixation of unstable slipped capital femoral epiphysis by means of surgical dislocation.

Wright JG: Annual Meeting of the Pediatric Orthopaedic Society of North America, Toronto, Ontario, Canada, 4 May 2013. Presenter: Long-Term Functional Outcomes Of Resected Tarsal Coalitions.

Wright JG: 2013 Annual POSNA Meeting, Toronto, Ontario, Canada, 2 May 2013. Lecturer: A Prospective Determination of Environmental Factors Associated with Clubfoot.

Wright JG: Annual Meeting of the Pediatric Orthopaedic Society of North America, Toronto, Ontario, Canada, 1 May 2013. Presenter: Long-Term Functional Outcomes Of Operative Vs. Non-Operative Spina Bifida Scoliosis.

Wright JG: 2013 European Paediatric Orthopedic Society, Athens, Greece, 17 April 2013. Presenter: 1/ Plantar Flexion is More Important than Dorsiflexion for Foot Function in Children. 2/ Long-term Functional Outcomes of Resected Tarsal Coalitions. 3/ Long-term Functional Outcomes of Operative vs. Non-operative Spina Bifida Scoliosis. 4/ Outcomes of Bracing in Juvenile Idiopathic Scoliosis until Skeletal Maturity or Surgery. 5/ A Prospective Determination of Environmental Factors Associated with Clubfoot.

Zeller R: 25th Canadian Orthopaedic Association Basic Science Course, Toronto, Ontario, Canada, 23 August 2012. Paediatric Spine: Basic science and clinical correlates.

Zeller R: Scoliosis Research Society, Chicago, Illinois, United States, 8 September 2012. Moderator: Complications, osteotomy.

Zeller R: International Paediatric Orthopaedic Think Tank, Cannes, France, 20 September 2012. Invited Lecturer: Cervical hyperextension in congenital muscular dystrophy: A severe handicap often overlooked?

Zeller R: Canadian Spine Society's 13th Annual Scientific Conference, Mont Tremblant, Quebec, Canada, 1 March 2013. Chair: Paediatrics Syndromic Spinal Deformity Symposia.

Research and Investigations

Auto21. Howard AW and 185 other investigators. Networks of Centres of Excellence (NCE). (\$23,000,000 2001 - 2015).

Characterizing the sarcoma tumor initiating cell: Implications for the development of novel treatments for undifferentiated pleomorphic sarcoma. Alman BA, Wunder JS. Canadian Institutes of Health Research (CIHR). (\$732,722 2012 - 2017).

Evaluation of Outcomes of Hip Interventions for Children with Cerebral Palsy – An International Multi-Centre Prospective Longitudinal Comparative Cohort Study. Narayanan U, Fehlings D, Stephens D, Mulpuri K, Graham K, Snyder B, Shore B, Novacheck T, Davids JR, Hamdy R, Jozwiak M, Hagglund G, Stott S, Theologis T, Givon U, Truong W. Pediatric Orthopaedic Society of North America, Arthur H. Huene Memorial Award. (\$30,000 2013 - 2014).

Fatal Child Injuries in Real World Crashes A504-AFC. Auto21. Howard A, Snowdon A, Altenhof W, Shkrum M, Pike I, Boase P, Baine B, Cass D, Lauwers B. Networks of Centres of Excellence (NCE) (\$264,000 2012 - 2015).

Growth arrest and osteoporosis in Duchenne muscular dystrophy patients treated with glucocorticoids. Grynepas MD, Alman BA, Howard AW, Mitchell JA. Canadian Institutes of Health Research (CIHR). (\$803,623 2012 - 2017).

Identifying novel drug therapies for desmoid tumors. Alman BA. Desmoid Tumor Research Foundation. (\$85,000 2012 - 2013).

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

Mental Imagery in Surgery - A Qualitative Study. Cil T, Murnaghan M, Moulton CA. PSI (\$13,500 2012 - 2013).

Putting the Pieces Together – Distal radius buckle fractures from the ED to the PCP. Boutis K, Koelink E, Schuh S, Howard A, Fregonas C, Stimec J. The Hospital for Sick Children, Division of Emergency Medicine. (\$7,000 2013).

Safer Surgery Obstetrics and Surgery in Africa. Lett R, Braun L, Howard AW. CIDA. (\$2,100,000 2010 - 2013).

Self-organisation of the limb bud in vitro. Hopyan S. Transplant Centre, Hospital for Sick Children. (\$56,000 2013).

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

Simulation Team Training and Critical Event Checklist use for optimizing the management of critical preoperative events in an ambulatory surgical facility. Morgan P, Tregunno D, Brydges R, Carnahan H, Kurrek M, Murnaghan ML, Semple J, Bell S, Groff N, Forde D. CMPA (\$49,663.46 2013 - 2014).

The ectodermal basis of early limb bud morphogenesis and malformation. Canadian Institute of Health Research. Hopyan S. (\$687,100 2013 - 2018).

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

Publications

- Alhodaib NI, Clarke HM.** Outcomes of treatment for neonatal brachial plexus palsy. Practical Management of Pediatric and Adult Brachial Plexus Palsies. (Chung KC, Yang LJ-S, McGillicuddy JE, eds.) Elsevier Saunders, Edinburgh, Scotland. 2012, pp. 157-170.
- Arad E, Li Z, Sitzman T, Agur A, Clarke HM.** Anatomic sites of origin of the suprascapular and lateral pectoral nerves within the brachial plexus. Canadian Journal of Plastic Surgery. 2013 May; 21(2):138.
- Arad E, Stephens D, Curtis CG, Clarke HM.** Botulinum toxin for the treatment of motor imbalance in obstetrical brachial plexus palsy. Plastic and Reconstructive Surgery. 2013 Jun; 131(6):1307-1315.
- Baluch N, Borschel GH.** Use of adjunctive palmaris longus abductorplasty (Camitz) tendon transfer in pediatric median nerve injury. J Plast Reconstr Aesthet Surg. 2012 Sep 14. doi:pii: S1748-6815(12)00497-4. 10.1016/j.bjps.2012.08.038. [Epub ahead of print] PMID: 22981385
- Borschel GH.** Free functioning muscle transfer in the upper extremity. In: Chang, James. Plastic Surgery, Hand and Upper Extremity, 3rd ed. Elsevier (published). 2013 Jan.
- Borschel GH.** Gracilis functional muscle harvest. In: Chang, James. Plastic Surgery, Hand and Upper Extremity, 3rd ed. Elsevier Sanunders (published). 2013 Jan.
- Cahoon NJ, Naparus A, Ashrafpour H, Hofer SO, Huang N, Lipa JE, Forrest CR, Pang CY.** Pharmacologic prophylactic treatment for perioperative protection of skeletal muscle from ischemia-reperfusion injury in reconstructive surgery. Plastic Reconstructive Surgery. March 2013; 131(3): 473 - 485.
- Dodwell E, O'Callaghan J, Anthony A, Jellicoe P, Shah M, Curtis C, Clarke H, Hopyan S.** Combined glenoid anteversion osteotomy and tendon transfers for brachial plexus birth palsy. Early outcomes. Journal of Bone and Joint Surgery (Am). 2012 Dec; 94(23): 2145-2152.
- Fisher DM, Bezuhly M.** Impact of 22q11 deletion syndrome on speech outcomes following primary surgery for submucous cleft palate. The Canadian Journal of Plastic Surgery 2011; 20(2): pp 133. 2012.
- Forrest CR.** Age-based approach to sagittal synostosis: Application of extended strip craniectomy (ESC) and total vault reshaping (TCVR) techniques. Canadian Journal of Plastic Surgery. 2013 Jun; 21(2):128.
- Ho ES, Curtis CG, Clarke HM.** The brachial plexus outcome measure: Development, internal consistency, and construct validity. Journal of Hand Therapy. 2012; 25(Oct-Dec): pp 406-417.
- Ho O, Saber N, Stephens D, Clausen A, Drake J, Forrest CR, Phillips JH.** Comparing the use of 3-D photogrammetry and computed tomography in assessing craniosynostosis. Canadian Journal of Plastic Surgery. 2013 Jun; 21(2):124.
- 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.
- Kasrai L, Fisher DM.** Strategies for reducing complications in autologous auricular reconstruction. The Canadian Journal of Plastic Surgery 2012; 20(2): pp 134.
- Lutfy J, Zuker RM, Ying Y.** Partially Ossified Iliac Crest Graft for the Reconstruction of the Pediatric Thumb Proximal Phalanx. Hand - Journal of the American Association for Hand Surgery. 2012 Nov 28.
- 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.
- Moghaddam MB, Brown TM, Clausen A, Da Silva T and Forrest CR.** Outcome analysis after helmet therapy using 3D photogrammetry in patients with deformational plagiocephaly: The role of root mean square. Canadian Journal of Plastic Surgery. 2013 Jun; 21(2):129.

Naparus A, Ashrafpour H, Nuang N, Hofer SO, Zhong T, Forrest CR, Pang CY. Combination of hypoxic preconditioning and postconditioning does not induce additive protection of ex vivo human skeletal muscle from hypoxia/reoxygenation injury. *Journal of Cardiovascular Pharmacology*. October 2012, 60(4): 347 - 357.

Pavri S, Forrest CR. Demographics of Orofacial clefts in Canada from 2002 to 2008. *Cleft Palate Craniofacial Journal*. March 9, 2013; 50(2):224-30.

Pollock RA, Rudderman RH, Mullen R, Phillips JH, Gossman MD. *Buttresses of the Craniofacial Skeleton: Surgical Anatomy and Operative Repair*. Thieme Medical Publishers, Inc. New York. Chapter 7. The Medial Orbital Frame and Central Upper Face (Nasal-Nasoseptal, Nasomaxillary, Orbitoethmoid and Orbitosphenoid Complex). 2012.

Swan M, Fisher D, Klaiman P, Fishback S, Clarke HM. A retrospective analysis of functional outcomes of the hybrid palatoplasty technique: A twenty-year experience. *Canadian Journal of Plastic Surgery*. 2013 May ; 21(2):128.

Szynkaruk M, Kemp SWP, Wood MD, Gordon T, Borschel GH. Experimental and Clinical Evidence for Use of Decellularized Nerve Allografts in Peripheral Nerve Gap Reconstruction. *Tissue Engineering, Part B. Tissue Eng Part B Rev*. 2013 Feb;19(1):83-96.

Wood MD, Gordon T, Kemp SWP, Shoichet M, Liu E, Kim H, Borschel GH. Functional motor recovery is improved due to local placement of GDNF microspheres after delayed nerve repair. *Biotechnol Bioeng*. 2012 Dec 13. doi: 10.1002/bit.24800. [Epub ahead of print] PMID: 23239194 [PubMed - as supplied by publisher].

Wood MD, Gordon T, Kim H, Szynkaruk M, Phua P, Lafontaine C, Kemp SWP, Shoichet MS, Borschel GH. Fibrin gels with microspheres containing GDNF enhance peripheral nerve regeneration after delayed nerve repair. *Regenerative Medicine*. 2013 Jan;8(1):27-37.

Zuker RM, Gur E, Hussain G, Manktelow RT. Facial Paralysis. *Plastic Surgery, Third Edition*. 2013;11, 278-306.

Zuker RM, Zenn MR. Gracilis and TUG/TMG Flaps. *Reconstructive Surgery*. 2012;12C:1419-1465.

Invited Visits

Borschel GH: Moebius Syndrome Conference, Philadelphia, Pennsylvania, United States, 12-14 July 2012. Invited Speaker: Advances in Nerve Regeneration Research.

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 Change in burn Centers Inside and Out. 2/ Partnering with the Community Postgraduate Course A: Partner to Affect Change in burn Centers Inside and Out. 3/ The Increasing Risk of Glass-Fronted Fireplace burns in Canada.

- Fisher D:** BAPRAS (British Association of Plastic Reconstructive and Aesthetic Surgeons), Newcastle upon Tyne, United Kingdom, 11 July 2012. Invited Lecturer - John Potter Symposium: 1/ Cleft lip repair - anatomical subunit concept. 2/ Management of the cleft lip nasal deformity.
- Fisher D:** II Simposio Internacional de Fisuras Labio Palatinas, Santiago, Chile, 25-26 September 2012. 1/ Course Instructor: Demonstrating Surgical Technique: Workshop at Fundacion Gantz - Unilateral cleft lip surgery. 2/ Invited Lecturer: Display panel on bilateral clefts. 3/ Invited Lecturer: Display panel on rhinoplasty. 4/ Invited Lecturer: Display panel on surgical complications on cleft. 5/ Invited Lecturer: Display panel on unilateral clefts. 6/ Invited Lecturer: Video on surgery techniques for unilateral cleft lip.
- Fisher D:** La Asociacion Mexicana de Labio y Paladar Hendido y Anomalias Craneofaciales, San Miguel Allende, Mexico, 18-20 October 2012. 1/ Panelist: International algorithms in the management of the cleft lip and palate patients. 2/ Invited Lecturer: Presurgical unilateral cleft lip anthropometrics - implications for the choice of repair technique. 3/ Invited Lecturer: Bilateral cleft lip repair - principles and surgical technique. 4/ Invited Lecturer: Anatomic subunit approximation technique for unilateral cleft lip repair. 5/ Invited Lecturer: Fisher DM Workshop (Mini Course) - Techniques for unilateral and bilateral cleft lip repairs.
- Fisher D:** American Society of Plastic Surgeons, New Orleans, Louisiana, United States, 28 October 2012. Presenter: Introduction to two-stage total and subtotal auricular reconstruction: the fabrication of the three-dimensional costal cartilage framework (3-D frame).
- Fisher D:** Sixth Annual QMP Reconstructive Surgery Symposium, Chicago, Illinois, United States, 16-17 November 2012. Invited Lecturer: 1/ Ear reconstruction. 2/ Cleft lip repair: Anatomic subunit approximation technique.
- 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.
- Phillips J:** Dr. Derek Steinbacher, M.D., D.M.D, Yale University, New Haven, Connecticut, United States, 16 January 2013. Visiting Professor: 1) Biomechanics and Bone Healing 2) Cleft Orthognathic Surgery 3) Hypertelorism 4) Pediatric Facial Fractures.
- Phillips J:** AO North America, New Orleans, Louisiana, United States, 8 March 2013. Presenter: Computer Aided Maxillofacial Surgery (with Human Anatomical Specimens).
- Zuker R:** International Symposium of Pediatric Plastic Surgery and Microsurgery, Bogota, Distrito Capital de Bogotá, Colombia, 21 November 2012. 1/ Invited Speaker: A Smile for Moebius Syndrome. 2/ Presenter: Pediatric Facial Paralysis Reconstruction. 3/ SickKids Protocol for the Management of Cleft Lip and Palate. 4/ Invited Speaker: Controversies in the Management of Congenital Melanocytic Nevi.
- Zuker R:** Abordaje Interdisciplinario a Pacientes con Fisura Labiopalatina, Congreso 2012, Lima, Peru, 23-24 November 2012. 1/ Guest Lecturer: Decreasing the Perioperative Complications Associated with Superiorly Based Pharygeal Flap. 2/ Keynote Speaker: An Overview of the Cleft Lip and Palate Program.
- Zuker R:** Instituto de Salad de Nino, Lima, Peru, 26 November 2012. Invited Speaker: Facial Paralysis Reconstruction in Children.
- Zuker R:** The Peruvian Society of Plastic Surgeons Meeting, Lima, Peru, 26 November 2012. Keynote Speaker: 1/ Conjoined Twins - Lessons Learned. 2/ Limb Transplantation for Congenital Anomalies. 3/ Controversies in the Management of Congenital Melanocytic Nevi.
- Zuker R:** Trillium Gift of Life Donation Steering Committee, Toronto, Ontario, Canada, 22 January 2013. Invited Speaker: Composite Tissue Allotransplantation.
- 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.

Zuker R: Johns Hopkins - State of the Art: Facial Reconstruction and Transplantation, Baltimore, Maryland, United States, 18-19 May 2013. Keynote Speaker: 1/ Approach to the Reanimation of the Moebius Syndrome Patient. 2/ State of the Art Facial Reanimation - Unilateral Facial Paralysis. 3/ What is the Role for Pediatric Reconstructive Transplantation. 4/ The 2013 Hans Wilhelm MD, DDS Lecture in the Craniofacial Sciences.

Research and Investigations

An Optical Imaging Device for a Rapid Assessment of Tissue Viability and Wound Healing. Sowa M, Fish JS: Centre for Security Science CRTI. \$180,000 2007 – present).

BDNF and GDNF for treatment of nerve injury. Borschel GH, Liu E. CIHR, (\$4,251 2012 - 2013).

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).

Comparison of Tests of Sensory Outcome After Nerve Injury in Children. Borschel GH, Ho E. The Hospital for Sick Children. (\$4,865 2012).

Early Researcher Award: Enhancing Recovery Following Nerve Injury. Borschel GH, Gordon T. Ontario Ministry of Research and Innovation (\$150,000 2012 - 2015).

Educational Exchange Programme for Cleft Lip and Palate Repair. West Bengal and Assam, India. Zuker R: Donner Foundation. (\$230,000 2011 – 2014).

Enhancement of nerve regeneration with controlled release of neurotrophic factors. Borschel GH, Gordon T, Shoichet MS. Canadian Institutes of Health Research / CIHR, operating grant, CIHR/NSERC Collaborative Health Research. (\$536,711 2013 - 2016).

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).

GDNF and BDNF Microspheres for Treatment of Nerve Injury. Borschel GH, Wood M, Gordon T, Shoichet M. Ontario Ministry of Innovation (\$100,000 2011 - 2013).

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

Hypoxic postconditioning of human skeletal muscle against reoxygenation injury: efficacy, mechanism, and therapeutic potentials. Pang C, Forrest C, Hofer S, Zhong I. Canadian Institutes of Health Research (CIHR). (\$326,764 2009 - 2012).

IAMGold Fellowship in Peripheral Nerve Regeneration Research. Borschel GH, Gordon T: IAMGold, Inc. (\$80,000 2011 – 2013).

Improving functional recovery after peripheral nerve injury. Borschel G, Gordon T: CIHR. (\$290,996 2011-2014).

The Use of Prefabricated Templates in Cranial Vault Remodeling. Phillips J, Saber N, Forrest C: Hospital for Sick Children. (\$10,000 2011 – 2013).

Treatment of Peripheral Nerve Injury with P7C3. Borschel GH, Kemp S. Plastic Surgery Foundation. (\$10,000 2012 - 2013).

Honours Received

Borschel GH: Ontario Early Researcher Awards (ERA), (1 of 28 in the GTA), Ministry of Economic Development and Innovation. April 2012.

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.

Division 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

- Alali S, Aitken KJ, Bägli DJ, Vitkin IA.** Optical assessment of tissue anisotropy in ex-vivo distended rat bladders. *Journal of Biomedical Optics*. 2012; 17(8):86010.
- Alexander A, Houry AE, Lorenzo AJ.** *Urological Issues in Pediatric Dialysis*. Pediatric Dialysis. Springer Science + Business Media, LLC. 2012.
- Bagli D.** Is Bladder Dysfunction in Children Science Fiction or Science Fact: Editorial Comment. *Urology for the Pediatrician, Pediatric Clinics of North America*. August 2012; 59(4): 943.
- Bolnick DA, Koyle MA, Yosha A.** *Surgical Guide to Circumcision*. Springer-Verlag. Editor. 2012.
- Casale P, Farhat WA.** Preface: What pediatricians need to know about urology. *Pediatric Clinics of North America*. 2012 Aug; 59(4). [Book Preface]
- Cendron M, Koyle MA.** Dressings and Care After Surgical Circumcision. In. *Surgical Guide to Circumcision*. Chapter 13, pg 155. 2012.
- Cheng HL, Laoi Y, Farhat WA.** Monitoring tissue development in acellular matrix based regeneration for bladder tissue engineering: multiexponential diffusion and T2 for improved specificity. *NMR in Biomedicine*. 2012 Mar;25(3):418-26.
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Invited Visits

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

Bägli DJ: 24th Congress of the European Society of Pediatric Urologists, Genoa, Italy, 25 April 2013. Presenter: Matrix Modulates DNA Methylation in Human Bladder Smooth Muscle Cells (BSMC).

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: Kuwait, 2013. Invited Speaker: Laparoscopic Pyeloplasty, Orchidopexy, Nephrectomy, Pyelolithotomies.

Farhat WA: King Fahad Medical Center, Riyadh, Saudi Arabia, 13-15 January 2013. Visiting Professor: 1/ Laparoscopic Pyeloplasty, Redo Extrophy Repair, Urinary Undiversion and Bladder Augmentation. 2/ Simulation Course at KFMC Sim Center. 3/ Ergonomics in Minimally Invasive Surgery for a Better Outcome. 4/ Complications of Laparoscopy in Pediatric Urology. 5/ How to Acquire and Retain Laparoscopic Skills in Children. 6/ Nuances of Laparoscopy in Pediatric Urology.

Farhat WA: Western University, London, Ontario, Canada, 13-14 May 2013. Visiting Professor: 1/ Teaching with the Urology Residents. 2/ Current Management of Ureteropelvic Junction Stenosis in Children

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?

Koyle MA: British Association of Pediatric Urology Nurses, Cambridge, United Kingdom, 6 September 2012. Invited Lecturer: Minimally Invasive Open Pediatric Urology: Innovation and Adapting to Change.

Koyle MA: British Pediatric Urology Course, Cambridge, Cambridgeshire, United Kingdom, 7 September 2012. Invited Lecturer: Bladder Extrophy.

Lorenzo AJ: American Academy of Pediatrics Annual Meeting, New Orleans, Louisiana, United States, 22 October 2012. Presenter: A Practical Update of the COG Protocols and Current Management of Pediatric Genitourinary Tumors. Renal Tumor Update.

Lorenzo AJ: McMaster University, Hamilton, Ontario, Canada, 30-31 October 2012. Visiting Professor: 1/ Decisional conflict and regret after distal hypospadias repair. 2/ Application of adult urology surgical oncology principles to pediatric tumors.

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: 24th Congress of the European Society of Pediatric Urologists, Genoa, Italy, 24 April 2013. Presenter: Manuscript Preparation: How I Do It.

Lorenzo AJ: Society of Pediatric Urologists, San Diego, California, United States, 3 May 2013. Presenter: Decisional Regret After Distal Hypospadias Repair: Single Institution Prospective Analysis of Factors Associated with Parental Regret.

Lorenzo AJ: Panamanian Urological Society, Panama City, Panamá, Panama, 19 June 2013. Invited Lecturer: Use of Botulinum Toxin in Pediatric Urology.

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

Pippi Salle JL: American Academy of Pediatrics, New Orleans, Louisiana, United States, 21 October 2012. Judge: Best Clinical Papers of the Urology Section.

Pippi Salle JL: Urology Section of the American Academy of Pediatrics, New Orleans, Louisiana, United States, 22 October 2012. Video Presenter: 1/ ASTRA for Management of High Urogenital Sinus. 2/ Video Forum: ASTRA Procedure.

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

Pippi Salle JL: Mexican Congress of Urology, Mazatlan, Sinaloa, Mexico, 18 November 2012. Invited Speaker: 1/ Update on Technical Aspects of Surgery for Incontinence. 2/ Update in the Management of Hypospadias. 3/ Update in the management of Vesicoureteral Reflux. 4/ Panel Participant: Surgical Correction of UPJ Obstruction in Children.

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: Grenoble Children's Hospital, Grenoble, France, 28 January 2013. Invited Lecturer: 1/ Urethral duplication in children: often a dilemma for management. 2/ Urethral Duplication.

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.

Pippi Salle JL: International Workshop in Hypospadias in Nis, Serbia from 21-24 March 2013. Visiting Professor: 1/ performing live hypospadias surgeries. 2/ 1st International Pediatric Urology Workshop. 3/ Management of hypopadias: Lessons learned.

Pippi Salle JL: Chilean Urological Association, Santiago, Chile, 12-13 April 2013. Visiting Professor: 1/ Bladder Pathology. 2/ Catheterizable Channel for Urinary Continence in Children: When and How to Use Them? 3/ Experience with Botox for Urinary Incontinence in Children. 4/ How Useful is Bladder Augmentation to Improve Urinary Continence in Children. 5/ Update in the Management of Bladder Exstrophy.

Pippi Salle JL: International Workshop on Exstrophy and Epispadias., Casablanca, Morocco, April 2013. Presenter: One Stage x Staged repair of bladder exstrophy.

Pippi Salle JL: International Symposium on Innovative Strategies in Pediatric Urology, Bologna, Italy, June 2013. Invited Speaker: Management of Cloacas and Urogenital Sinus.

Research and Investigations

CIHR Team in the Effects of Brominated Flame Retardans on Reproductive Health: Animal, Human, Ethical, Legal and Social Studies Human Development, Child and Youth Health. Goodyear C, Goodyear C, Bagli DJ: Canadian Institutes of Health Research (CIHR). (\$499,000 2009 – 2013).

Establishing an International Pediatric Urology Task Force on Hypospadias Repair: Standardizing Surgical Outcomes in Clinical Research. Braga L, Bagli D, Lorenzo A, Pemberton J, Pippi Salle J. Canadian Institutes of Health Research (CIHR). (\$25,000 2013 - 2014).

Interactive multi-media CD-Rom for teaching operative pediatric urology. Khoury AE, Pippi Salle JL: University of Toronto, Information Technology Courseware Development fund. (\$16,795 2004 – present).

Novel Therapeutic Approaches for Obstructive Bladder Disease. Bagli DJ: Canadian Institutes of Health Research (CIHR). (\$440,000 2009 – 2013).

Parent, provider and survivor perspectives of investigational fertility preservation interventions for pre-pubertal boys with cancer: Exploring the factors influencing decisions and measuring preferences.. Lorenzo A. C17 Research Network, Pediatric Oncology Stem Cell Transplantation (\$79,054 2012 - 2013).

Honours Received

Farhat WA: Herbie Doctor of the Year, Hospital for Sick Children. Jul 2012 - Jun 2013.



CAR: AB. Alman, J. Wright, L. Murnaghan, C-A Moulton



CAR: C. Pang, C. Forrest, J. Wright, G. Borschel



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. E.D. Kennedy	Assistant Professor
Dr. A.M. Easson	Assistant Professor	Dr. H. MacRae	Associate Professor
Dr. R. Gladdy	Assistant Professor	Dr. A. McCart	Associate Professor
Dr. A. Govindarajan	Assistant Professor	Dr. R.S. McLeod	Professor
Dr. R.N. Gryfe	Assistant Professor	Dr. C.J. Swallow	Professor (Division Head)

Publications

Al-Sukhni E, Messenger DE, Victor JC, McLeod RS, Kennedy ED. Do MRI reports contain adequate pre-operative staging information for end users to make appropriate treatment decisions for rectal cancer? *Annals of Surgical Oncology*. 2013; 20(4): 1148-1151.

Al-Sukhni E, Milot L, Fruitman M, Beyene J, Victor JC, Schmocker S, Brown G, McLeod R and Kennedy E. Diagnostic Accuracy of MRI for Assessment of T Category, Lymph Node Metastases, and Circumferential Resection Margin Involvement in Patients with Rectal Cancer: A Systematic Review and Meta-analysis. *Ann Surg Oncol.* 2012 Jul;19(7):2212-23.

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Borowiec AM, Baxter NN, Schmocker S, Huang H, Victor JC, Krzyzanowska MK, Brierley J, McLeod RS, Kennedy ED. Are physicians willing to accept alternative, less effective treatment options for low rectal cancer to avoid APR? *Diseases of the Colon and Rectum.* 2013; 56(5):215.

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Coburn N, Seevaratnam R, Paszat L, Helyer L, Law C, Swallow C, Cardoso R, Mahar A, Lourenco LG, Dixon M, Bekaii-Saab T, Chau I, Church N, Coit D, Crane CH, Earle C, Mansfield P, Marcon N, Miner T, Noh SH, Porter G, Posner MC, Prachand V, Sano T, van de Velde C, Wong S and McLeod R. Optimal Management of Gastric Cancer: Results From an International RAND/UCLA Expert Panel. *Ann Surg.* 2013 Mar 8. PMID: 23478525. AID: 10.1097/SLA.0b013e318288dd2b [doi].

Dixon M, Cardoso R, Tinmouth J, Helyer L, Law C, Swallow C, Paszat L, McLeod R, Seevaratnam R, Mahar A, Coburn NG. What studies are appropriate and necessary for staging gastric adenocarcinoma? Results of an international RAND/UCLA expert panel. *Gastric Cancer.* 2013. Douplik A, Leong WL, Easson A, Done SJ, Wilson BC, Shahmoon A, Zalevsky Z. Microendoscopic spectral imaging as a tool for small ductal diagnostics: preliminary experience. *Journal of Innovative Optical Health Sciences.* 2012 Aug 4; 5(3):1250021-2-1250021-7

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Eskicioglu C, Gagliardi AR, Fenech DS, Forbes SS, McKenzie M, McLeod RS and Nathens AB. Surgical site infection prevention: a survey to identify the gap between evidence and practice in University of Toronto teaching hospitals. *Can J Surg.* 2012 Aug;55(4):233-8.

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Kennedy ED, Al-Sukhni E, Milot L, Fruitman M, Schmocker S, Victor JC, Brown G, McLeod RS. Interobserver agreement for MRI criteria used to select rectal cancer patients for preoperative chemoradiation. *Diseases of the Colon and Rectum.* 2013; 56(5) P190.

Loo LW, Cheng I, Tiirikainen M, Lum-Jones A, Seifried A, Dunklee LM, Church JM, Gryfe R, Weisenberger DJ, Haile RW, Gallinger S, Duggan DJ, Thibodeau SN, Casey G, Le Marchand L. cis-Expression QTL analysis of established colorectal cancer risk variants in colon tumors and adjacent normal tissue. *PLoS One*. 7:e30477, 2012.

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McArdle A, Bischof DA, Davidge K, Swallow CJ, Winter DC. Vaginal reconstruction following radical surgery for colorectal malignancies: A systemic review of the literature. *Annals of Surgical Oncology* 2012; 19 (12): 3933-42

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Wiljer D, Walton T, Gilbert J, Boucher A, Ellis PM, Schiff S, Sellick SM, Simunovic M, Kennedy ED, Urowitz S. Understanding the Needs of Colorectal Cancer Patients during the Pre-diagnosis Phase. *Journal of Cancer Education*. 2013 May 21. PMID: 23690171.

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Invited Visits

Cohen Z: CAGS, CALGARY, Alberta, Canada, 13 September 2012. Invited Speaker: Chronic pelvic abscess/fistula.

Cohen Z: European Crohn's and Colitis Organization, Vienna, Austria, February 2013. Invited Speaker: Master Class in Pouch Surgery.

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

Gladdy R: 8th Annual Canadian General Surgery Review, Mississauga, Ontario, Canada, 5 April 2013. Presenter: Soft Tissue Sarcomas - A Primer Sarcomas.

Govindarajan A: Toronto Cancer 2012, Toronto, Ontario, Canada, 22 November 2012. Invited Speaker: Don't stop till you get enough: Adjuvant chemotherapy and ypN0.

Gryfe RN: Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer, Boston, Massachusetts, United States, 2012. Speaker: Non-gynecologic, extracolonic cancer risk in Lynch syndrome.

Gryfe RN: Toronto Cancer 2012 Education Conference and Medical Exposition, Toronto, Ontario, Canada, 2012. Speaker: Where do I begin: KRAS/BRAF/MSI.

Gryfe RN: BC Cancer Agency, Surgical Oncology Network Fall Update: Malignancies of the Lower GI Tract, Vancouver, British Columbia, Canada, 2012. Keynote Speaker: The general surgeon's guide to colorectal cancer genetics.

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 Cancer 2012 – Transcending Boundaries. Toronto, Ontario, Canada, 22 November 2012. Presenter: Enhancing patient decision making.

Kennedy ED: Canadian Surgical Forum, Ottawa, Ontario, Canada, 2013. Speaker: Radiation Exposure from Computed Tomography in Crohn's Disease Patients Undergoing Ileocolic Resection.

Kennedy ED: American Society of Colon and Rectal Surgeons Annual Meeting, Phoenix, Arizona, United States, May 2013. Panel Member: Evidence Based Reviews in Surgery (ERBS).

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>

MacRae HM: CAGS, Calgary, Alberta, Canada, 13-15 September 2012. Invited Speaker: 1/ Tips and tricks involved with the distal transection of the extraperitoneal rectum. 2/ Laparoscopic versus open resection

McLeod RS: Liverpool and North West Society of Surgeons, Liverpool, United Kingdom, December 2012. Invited Lecturer: Training Surgeons: a Canadian Perspective.

McLeod RS: Digestive Disease Week, Orlando, United States, 19-21 May 2013. Presenter: Enhance Recovery Protocols for Elective Colon and Rectal Surgery.

Swallow CJ: Chicago, Illinois, United States, 2 October 2012. Discussant: Loss of programmed death-1 signalling uncouples the anti-inflammatory and immunosuppressive effects of liver regulatory T cells in a model of obstructive jaundice.

Swallow CJ: Connective Tissue Oncology Society 17th Annual Meeting, Praha, hlavní mesto, Czech Republic, 16 November 2012. Discussant: Session 5- Liposarcoma.

Research and Investigations

A Correlative Study of Melanoma Tumor-Infiltrating Lymphocytes (TILs) and Response to Ipilimumab.

Joshua A, Butler M, Hogg D, Gedye C, Spreafico A, Ohashi , Chappell MA, DeLuca S, Zhang B, Piryatinsky E, Easson A. (2013 - present).

A Phase I/II study of high dose rate brachytherapy for the palliation of rectal cancer. Wong KSR, Bayley A, Brierley J, Cummings B, Dinniwel R, Kennedy E, Le L, Ringash J, Jezioranski J, Kim E. Radiation Oncology Foundation/Sanofi-aventis, Canadian Research Innovation Award CASARIA. (\$20,000 2010 - present).

A phase II study to assess the safety and feasibility of refined selection criteria for pre-operative chemoradiation for rectal cancer. Baxter N, Simunovic M, McLeod R. MSH-UHN AMO Innovation Fund. (\$189,590 2013 - 2015).

A Phase II Study on the Toxicity and Efficacy of a Normal Tissue Tolerance Adapted, 5 Fraction Stereotactic Body Radiation Therapy (SBRT) Regimen, for Extra-Cranial Oligometastases. Wong R, Bezjak A, Brade A, Brierley J, Chung C, Chung P, Cummings B, Dawson L, Dinniwel R, Kim J, Levin W, Mclean M, Menard C, Milosevic M, Sahgal A, Lindsay P, Razak A, Ghai S, Easson A, Cheung C, Panzarella T. (Jul 2012 - Jun 2013).

A phase III randomized study of preoperative radiotherapy plus surgery versus surgery alone for patients with retroperitoneal sarcoma (RPS). Swallow CJ, Catton CN, Gladdy RA, Chung PM, O’Sullivan B. STRASS. (2011 - 2015).

A randomized phase III trial of preoperative chemoradiotherapy vs. preoperative chemotherapy for resectable gastric cancer. Wong RKS, O’Callaghan CJ, Darling G, Jonker D, Kollmannsberger C, Liu G, Mittman N, Ringash J, Swallow CJ. Canadian Institutes of Health Research (CIHR). (\$241,547 2011 - 2018).

CIHR Strategic Training Grant in the Development of Biological Therapeutics. Hampson D, Allen CJ, Bendayan R, Boyd SR, Bremner R, Garipey J, Mak TW, McCart JA, Medin JA, Monnier PP, Pang KCS, Reilly RM, Schimmer AD, Van Der Kooy DJ. Canadian Institutes of Health Research (CIHR). (\$1,787,630 2009 - 2015).

Clinical Validation of PRODIGI, a New Handheld Optical Imaging Technology for Real-time Intraoperative-guidance of Breast Tumour Resection. DaCosta R, Leong W, Wilson B, Done S, Easson A. Canadian Cancer Society Research Institute Innovation Grants. (\$160,000 2011 - 2013).

Defining the Polo-Like Kinase 4 (Plk4) Interactome. Kazazian K, Swallow CJ. Canadian Society for Surgical Oncology (CSSO). (2012 - 2013).

Development of PRODIGI, a Handheld Optical Imaging Technology for Real-time Intraoperative-guidance of Breast Tumour Resection. DaCosta R, Done S, Leong W, Wilson B, Easson A: Canadian Institutes of Health Research, (\$145,000 2011 - present).

Enhanced Recovery after Surgery Guideline to Optimize Outcome following Colorectal Surgery. (Project Lead). McLeod R, Aarts MA, Okrainec A, Siddiqui N, Gotlib-Conn L, McKenzie M, Pearsall E. Council of Academic Hospitals/Adopting Research to improve care. (\$1,729,505 2012 - 2014).

Evaluating a synoptic MRI report as a knowledge translation intervention for rectal cancer. McLeod RS, Milot L, Fruitman M, Brown G, Victor JC. CCO/OICR Knowledge Translation Research Network. (\$49,585 2012 - 2013).

Generation of De Novo molecular targets for optical imaging-guided surgical interventions in breast cancer. DaCosta R, Leong W, Wilson B, Done S, Easson AM: Cancer Care Ontario (\$100,000 2011 - present).

Growth of Tumor Infiltrating Lymphocytes (TIL) and Tumor Cells (TC) from human melanoma explants. Ohashi P, Nguyen L, Ghazarian D, Leung W, McCready D, Joshua, A, Rosenberug S. (Jul 2007 - present).

Improving the quality of rectal cancer multidisciplinary cancer conference (MCC) in the Toronto Central (South) LHIN. McLeod RS, Brierley J, Jhaveri K, Kirsch R, Victor JC. Cancer Care Ontario, Toronto Central South Regional Cancer Program. (\$37,000 2012 - 2014).

Ontario Regional BioTherapeutics Program (ORBiT). Bell JC, Atkins H, Auer RC, Bramson J, Chow L, Foley RS, Keating A, Lichty BD, McCart JA, Medin JA, Ohashi P, Stojdl DF, Wan Y, Zhang L. Ontario Institute of Cancer Research. (\$10,000,000 2009 - 2013).

Pan-Canadian Colorectal Cancer Consortium: Improving the health of Canadians by reducing colorectal cancer risk, by improving outcomes through earlier diagnosis and by improving therapeutic outcomes for those with more advanced disease. Gallinger S. Terry Fox Research Institute (TFRI). (\$1,263,831 2012 - 2014).

Patient and physician preferences for the management of low rectal cancer. McLeod RS, Kennedy ED, Smith A, Baxter N, Brierley J, Kim J, Victor C. American Society of Colon & Rectal Surgeons. (\$49,690 2010 - 2014).

Population-based assessment of sleep deprivation in staff physicians and its impact on patient care. Govindarajan A, Baxter N. University of Toronto, Dean's Fund. (\$19,662 2013 - 2015).

Selected Therapies and Functional Genomics in Sarcoma. Gladdy R: Ontario Institute for Cancer Research. (\$1,750,000 2008 - 2014).

Honours Received

Cohen Z: Honouree, United Ostomy Association of Canada. August 2012.

Division of Orthopaedics

Dr. D. Backstein	Associate Professor (Division Head)	Dr. P. Kuzyk	Assistant Professor
Dr. R.S. Bell	Professor	Dr. O. Safir	Assistant Professor
Dr. P.C. Ferguson	Associate Professor	Dr. J.S. Theodoropoulos	Lecturer
Dr. A.E. Gross	Professor	Dr. T. Willett	Lecturer
		Dr. J.S. Wunder	Professor

Publications

Abolghasemian M, Drexler M, Abdelbary H, Sayedi H, Backstein D, Kuzyk P, Safir O, Gross AE. Revision of the acetabular component in dysplastic hips previously reconstructed with a shelf autograft (Study of the outcome with special assessment of bonestock changes). The Journal of Bone and Joint Surgery Br. 2013 Jun; (95-B)6: 777-781.

Abolghasemian M, Samiezadeh S, Jafari D, Bougherara H, Gross AE, Ghazavi MT. Displacement of the hip center of rotation after arthroplasty of Crowe III and IV dysplasia: A radiological and biomechanical study. The Journal of Arthroplasty. 2013; 28: 1031-1035.

Abolghasemian M, Sternheim A, Shakib A, Safir OA, Backstein D. Is Arthroplasty Immediately After an Infected Case a Risk Factor for Infection? Clin Orthop Relat Res. 2013 Feb 7. [Epub ahead of print]. PMID: 23389803.

Abolghasemian M, Tangsataporn S, Sternheim A, Backstein D, Safir O, Gross AE. Combined trabecular metal acetabular shell and augment for acetabular revision with substantial bone loss: A mid-term review. Bone Joint J. 2013 Feb; 95-B(2):166-72.

Ahmadi S, Shah S, Wunder JS, Schemitsch EH, Ferguson PC, Zdero R. The biomechanics of three different fracture fixation implants for distal femur repair in the presence of a tumor-like defect. *Proc Inst Mech Eng H.* 2013 Jan 2; 227 (1):78-86.

Albilia JB, Tenenbaum HC, Clokie CM, Walt DR, Baker GI, Psutka DJ, Backstein D, Peel SA. Serum levels of BMP-2, 4, 7 and AHSG in patients with degenerative joint disease requiring total arthroplasty of the hip and temporomandibular joints. *Journal of Orthopaedic Research.* 2012 Jul 9. doi: 10.1002/jor.22182. PMID: 22778059.

Alman BA, Ferguson P, Kraemer W, Nousiainen MT, Reznick RK. Competency-based education: a new model for teaching orthopaedics. *Instr Course Lect.* 2013;62:565-9.

Biau DJ, Weiss KR, Bhumbra RS, Davidson D, Brown C, Wunder JS, Ferguson PC. Using the CUSUM Test to Control the Proportion of Inadequate Open Biopsies of Musculoskeletal Tumors. *Clin Orthop Relat Res.* 2012 Sep 12. PMID: 22968530. AID: 10.1007/s11999-012-2544-8 [doi].

Biau DJ, Weiss KR, Bhumbra RS, Davidson D, Brown C, Griffin A, Wunder JS, Ferguson PC. Monitoring the Adequacy of Surgical Margins After Resection of Bone and Soft-Tissue Sarcoma. *Ann Surg Oncol.* 2013 Jan 31. PMID: 23370669. AID: 10.1245/s10434-012-2863-8 [doi].

Blanchette P, Hogg D, Ferguson P, Wunder JS, Swallow C, Gladly R, Chung P, O'Sullivan B, Blackstein ME, Catton C, Gupta AA. Topotecan and Cyclophosphamide in Adults with Relapsed Sarcoma. *Sarcoma.* 2012; 749067. Epub 2012 Jul 18. PMID: 22851904. AID: 10.1155/2012/749067 [doi].

Clarkson PW, Sandford K, Phillips AE, Pazonis TJ, Griffin A, Wunder JS, Ferguson PC, Masri BA, Goetz T. Functional results following vascularized versus nonvascularized bone grafts for wrist arthrodesis following excision of giant cell tumors. *J Hand Surg Am.* 2013 May;38(5):935-940.

Coyle J, White LM, Dickson B, Ferguson P, Wunder J, Naraghi A. MRI characteristics of nodular fasciitis of the musculoskeletal system. *Skeletal Radiol.* 2013 Apr 27. PMID: 23624727. AID: 10.1007/s00256-013-1620-9 [doi].

Garbuz DS, Masri BA, Duncan CP, Greidanus NV, Bohm ER, Petrak MJ, Della Valle CJ, Gross AE. Dislocation in revision THA: Do large heads (36 and 40mm) result in reduced dislocation rates in a randomized clinical trial? *Clin Orthop Relat Res.* 2012 Feb; 470(2) :351-6.

Ghert M, Deheshi B, Holt G, Randall RL, Ferguson P, Wunder J, Turcotte R, Werier J, Clarkson P, Damron T, Benevenia J, Anderson M, Gebhardt M, Isler M, Mottard S, Healey J, Evaniew N, Racano A, Sprague S, Swinton M, Bryant D, Thabane L, Guyatt G and Bhandari M. Prophylactic antibiotic regimens in tumour surgery (PARITY): protocol for a multicentre randomised controlled study. *BMJ Open.* 2012 Nov; 28:2(6).

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): 463-71.

Gross AE, Callaghan JJ, Zywielski MG, Greiner JJ, Kosashvili Y, Johnson AJ, Clohisy JC, Backstein D, Mont M. Total hip arthroplasty in down syndrome patients: An improvement in quality of life Replacement Arthroplasty in Down Syndrome (RADS) Study Group. *The Journal of Arthroplasty.* 2013; 28: 701-706.

Gross AE, Goodman SM. The use of cages in revision arthroplasty of the acetabulum. *Revision Total Hip and Knee Arthroplasty.* Lippincott Williams & Wilkins - edited by - Daniel J. Berry, Robert T. Trousdale Douglas A. Dennis, Wayne G. Paprosky . 2012; 179-192.

Jones KB, Ferguson PC, Lam B, Biau DJ, Hopyan S, Deheshi BM, Griffin AM, White LM, Wunder JS. Effects of neoadjuvant chemotherapy on image-directed planning of surgical resection for distal femur osteosarcoma. *J Bone Joint Surg (Am).* 2012; 94 (15): 1399-1405.

JulNicholls F, Janic K, Filomeno P, Willett T, Grynepas M, Ferguson P. Effects of radiation and surgery on healing of femoral fractures in a rat model. *J Orthop Res.* 2013 Apr 19. doi: 10.1002/jor.22351 PMID: 23606416. AID: 10.1002/jor.

Kosashvili Y, Gross AE, Ziv YB, Backstein D. Distal femoral varus osteotomies for lateral osteoarthritis of the knee. *The Knee Reconstruction Replacement and Revision.* 2013; 1(38):1-6. Data Trace Publishing Company; Javad Parvizi, MD, FRCSC, Editor.

Kosashvili Y, Omoto D, Backstein D, Safir O, Lakstein D, Gross AE. Acetabular alignment and primary arc of motion for minus, skirtless, and skirted 28-,32-,36-, and 40-mm femoral heads. *The Journal of Arthroplasty.* 2013 Feb; 28(2): 279-285.

- Kosashvili Y, Raz G, Backstein D, Lulu OB, Gross AE, Safir O.** Fresh-stored osteochondral allografts for the treatment of femoral head defects: Surgical technique and preliminary results. *International Orthopaedics*. 2013 Jun; 37(6): 1001-1006.
- Lee PTH, Gyomory S, Safir O, Backstein D, Gross AE.** Bone Grafts in Hip Surgery. *Surgery of the Hip*. Berry DJ, Lieberman; Elsevier. 2013; Chapter 13; 182-197.
- Lee PTH, Kellet C, Safir O, Backstein D, Gross AE.** Revision hip arthroplasty: Allograft prosthetic composites and proximal femoral replacement. *Surgery of the Hip (Berry and Liberman)*. 2012; 762-7.
- Lee PTH, Safir O, Kellett CF, Backstein DJ, Gross AE.** Femoral Revision: Allograft and Prosthetic Composites and Proximal Femoral Replacement. *Surgery of the Hip*. Berry DJ, Lieberman; Elsevier. 2013; Chapter 99; 1179-1193.
- O'Sullivan B, Griffin AM, Dickie CI, Sharpe MB, Chung PW, Catton CN, Ferguson PC, Wunder JS, Dehesi BM, White LM, Kandel RA, Jaffray DA and Bell RS.** Phase 2 study of preoperative image-guided intensity-modulated radiation therapy to reduce wound and combined modality morbidities in lower extremity soft tissue sarcoma. *Cancer*. 2013 Feb 19. doi: 10.1002/cncr.27951. PMID: 23423841. AID: 10.1002/cncr.
- Pahuta MA, Schemitsch EH, Backstein D, Papp S, Gofton W.** Virtual fracture carving improves understanding of a complex fracture: a randomized controlled study. *Journal of Bone & Joint Surgery (Am)*. *Bone Joint Surg Am*. 2012 Dec 19;94(24):e182. doi: 10.2106/JBJS.K.00996. PMID: 23318621.
- Payne CE, Hofer SO, Zhong T, Griffin AC, Ferguson PC and Wunder JS.** Functional outcome following upper limb soft tissue sarcoma resection with flap reconstruction. *J Plast Reconstr Aesthet Surg*. 2013 Feb 21. pii: S1748-6815(13)00060-0. doi: 10.1016/j.bjps.2013.01.034.. PMID: 23434111.
- Rogers BA, Garbedian S, Kuchinad R, Backstein D, Safir O, Gross AE.** Developmental Dysplasia of the Adult Hip (Displasia Del Desarrollo De La Cadera En El Adulto Joven). *Displasia de Cadera del Adulto (2a edicion)*. Antonio Murcia Mazon, Rafael P. Garcia Diaz, Mariano Fernandez Fairen, Miguel S. Suarez Suarez: Ingecot. 2012; Chapter 9: 215-232.
- Rogers BA, Garbedian S, Kuchinad RA, Backstein D, Safir O, Gross AE.** Total hip arthroplasty for adult hip dysplasia. *Journal of Bone and Joint Surgery (American)*. 2012 Oct 3;94(19):1809-21.
- Rogers BA, Whittingham-Jones PM, Mitchell PA, Safir OA, Bircher MD, Gross AE.** The reconstruction of periprosthetic pelvic discontinuity. *The Journal of Arthroplasty*. . 2012 Sep. 27; 1499-1506.
- Safir, O., Lin, C., Kosashvili, Y., Mayne, I.P., Gross, A.E., & Backstein, D.** Limitations of conventional radiographs in the assessment of acetabular defects following total hip arthroplasty. *Can J Surg*. 2012 Dec; 55(6):401-407.
- Sivasundaram R, Shah S, Ahmadi S, Wunder JS, Schemitsch EH, Ferguson PC and Zdero R.** The Biomechanical Effect of Proximal Tumor Defect Location on Femur Pathological Fractures. *J Orthop Trauma*. 2012 Dec 14. PMID: 23249892. AID: 10.1097/BOT.0b013e3182809748 [doi].
- Sternheim A, Abolghasemian M, Safir O, Backstein D, Gross AE, Kuzyk P.** A long-term survivorship comparison between cemented and uncemented cups with shelf grafts in revision total hip arthroplasty after dysplasia. *The Journal of Arthroplasty*. 2013 Feb; 28(2): 303-308.
- Sternheim A, Lochab J, Drexler M, Kuzyk P, Safir O, Gross A, Backstein D.** The benefit of revision knee arthroplasty for component malrotation after primary total knee replacement. *International Orthopedics*. 2012 Dec; 36 (12): 2473-8.
- Tangsataporn S, Abolghasemian M, Kuzyk PR, Backstein DJ, Safir OA, Gross AE.** Salvaged failed roof rings and antiprotrusion cages: surgical options and implant survival. *Hip International*. 2013; 2 (23): 166-172.
- Tangsataporn S, Abolghasemian M, Kuzyk PRT, Safir OA, Backstein DJ, Gross AE.** The Dysplastic Hip: Not for the Shallow Surgeon. *Seminars in Arthroplasty*. 2012 Sep; 23(3):141-145.
- Trajkovski T, Veillette C, Backstein D, Wadey VM, Kraemer B.** Resident self-assessment of operative experience in primary total knee and total hip arthroplasty: Is it accurate? *Canadian Journal of Surgery*. 2012 Aug;55(4):S153-7.
- Willett TL, Kandel R, DeCroos JNA, Avery NC, Grynepas MD.** The Effect of Enhanced Levels of Non-Enzymatic Glycation and Pentosidine Crosslinking in Spontaneous Osteoarthritis Progression. *Osteoarthritis & Cartilage*. 2012 Jul;20(7):736-44.

Invited Visits

Backstein D: American Knee Society, Garden City, New York, United States, 7 September 2012. Speaker: Revision TKA for Malrotation Annual Members Meeting.

Backstein D: 2012 National Capital Knee Symposium, Ottawa, Ontario, Canada, 21 September 2012. Lecturer: 1/ Cementless TKA Components. 2/ : Approach to the Stiff, Unhappy TKR.

Backstein D: Zimmer Orthopaedics, Warsaw, Indiana, United States, 26 October 2012. Invited Lecturer: 1/ Revision TKA: Managing Bone Loss. 2/ Distal Femoral Replacement: Surgical Technique Overview/ Tips & Tricks.

Backstein D: American Academy of Orthopaedic Surgeons Knee Specialty Day, Chicago, Illinois, United States, 23 March 2013. Lecturer: Non-Operative Treatment of Knee Arthritis Expert Panel.

Ferguson P: International Conference on Surgical Education and Training, Ottawa, Ontario, Canada, 17 October 2012. Invited Speaker: Meeting Milestones and Core Competencies - At What Point are Individuals Competent? Workshop.

Ferguson, Peter: International Conference on Residency Education, Ottawa, Ontario, Canada, 19 October 2012. Invited Speaker: Evaluating Performance in a Competency-Based Residency Program Workshop.

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.

Ferguson P: CORR Recon Course, Mississauga, Ontario, Canada, 18 January 2013. Invited Speaker: Benign Bone Tumours.

Ferguson P: Canadian Orthopaedic Association, Winnipeg, Ontario, Canada, June 2013. 1/ Facilitator: Instructional Course Lecture - What's new in orthopaedic oncology research in Canada? 2/ Speaker: Preclinical studies in radiation impaired fracture healing.

Gross A: The Dewar Orthopaedic Society 53rd Annual Meeting, Toronto, Ontario, Canada, 8 September 2012. Presenter: Acetabular Revision with Bone Loss.

Gross A: Zimmer India Pvt Ltd, Delhi, India, 21 September 2012. Course Facilitator: 1/ Zimmer Hip Live Surgery Acetabular & Femoral Hip Revision. 2/ Acetabular Protrusio. 3/ Cases 4/ The Difficult Primary Hip. 5/ Total Hip Replacement for Dysplasia.

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 Inc., Buffalo, New York, United States, 18 October 2012. Course Facilitator: Revision Hip Local Meeting Acetabular Revision with Bone Loss.

Gross A: 35th Annual General Meeting, Ontario Orthopaedic Association, Toronto, Ontario, Canada, 2 November 2012. Presenter: Acetabular Revision with Bone Loss.

Gross A: Current Concepts in Joint Replacement: A Short Course, Beijing, China, 16 November 2012. Invited Speaker: 1/ Strategies for Dealing with Massive Acetabular Bone Loss. 2/ The Dysplastic Hip: Not for the Shallow Surgeon Held in Conjunction with the Seventh International Congress of the Chinese Orthopaedic Association.

Gross A: Medical Education, Zimmer China in Association with the Chinese Orthopaedic Association, Beijing, China, 17 November 2012. Presenter: Zimmer Hip Satellite Meeting Acetabular Revision with Bone Loss.

Gross A: Current Concepts Institute, Orlando, Florida, United States, 12 December 2012. Presenter: 29th Annual Current Concepts in Joint Replacement Winter 2012. 1/ Modified Trochanteris Slide for Revision THA: Room with a View. 2/ The Down Syndrome Patient: Not a Downer. 3/ Porous Metal Augments: Bip Hopes for Big Holes.

Gross A: Colombian Society of Orthopaedic Surgery and Traumatology SCCOT, Bogota, Colombia, 6 February 2013. Invited International Panel: National Meeting Chapter of Hip and Knee.

Gross A: Zimmer, Madrid, Spain, 6 March 2013. Presenter: Meet the Designer Hip Revision Masterclass Acetabular Revision with Bone Loss.

Gross A: Hospital Universitario de Burgos, Burgos, Spain, 8 March 2013. Presenter: 1/ Jornada Internacional Del Servicio De Cirugia Ortopedica Y Traumatologia Acetabular Revision with Bone Loss. 2/ Cases 3/ Femoral Revision Classification & Principles of Reconstruction. 4/ Total Hip Replacement for Dysplasia.

Gross A: American Academy of Orthopaedic Surgeons, Annual Meeting, Chicago, Illinois, United States, 19 March 2013. 1/ Presenter: Clinical Applications of Allograft Bone in Revision Arthroplasty of the Hip Symposium - Translational Research in Orthopaedics: Structural Bone Allograft from Benchtop to Bedside. 2/ Expert Panelist: Ask An Expert Sessions - Hip Topic.

Gross A: The 19th Combined Open (Winter) Meeting of The Hip Society, Chicago, Illinois, United States, 23 March 2013. Presenter: 1/ My Worst Case Symposium IV: My Worst Case Competition. 2/ My Most Difficult Case Symposium X: The Contest - My Most Difficult Case.

Gross A: Orthopaedic Department, State University of New York at Buffalo and Kaleida Health, Buffalo, New York, United States, 11 April 2013. Invited Lecturer: Robert Gillespie Memorial Lectureship The Present Status of Allografts in Lower Extremity Reconstruction.

Gross A: Zimmer Institute & Zimmer of Canada, Halifax, Nova Scotia, Canada, 25 April 2013. Presenter: Tips & Technologies in Acetabular Bone Loss Acetabular Bone Loss.

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.

Gross A: Glasgow, United Kingdom, 9 May 2013. Presenter: 1/Advanced Hip Arthroplasty Course Role of Allografts 2013 2/ Role of Cages 2013.

Gross A: 14th Annual Current Concepts in Joint Replacement Spring 2013, Current Concepts Institute, Las Vegas, Nevada, United States, May 2013. Presenter: 1/ Porous metal augments: Big hopes for big holes. 2/Total hip revision: A day in the life of... 3/ The cup cage: A trophy solution in acetabular revision.

Kuzyk P: Canadian Orthopaedic Association, Ottawa, Ontario, Canada, 2012. Speaker: 1/ Reconstruction of Acetabular Bone Deficiency in Revision Total Hip Arthroplasty with Shelf Grafts in Hip Dysplasia A Long -Term Survivorship Comparison between Cemented and Uncemented Cups. 2/ Entry Point for Intramedullary Nailing of Femoral Shaft Fractures: A Systematic Review and Meta-analysis. 3/ External Fixation versus Open Reduction with Plate Fixation for Distal Radius Fractures: A Meta-analysis of Randomized Controlled Trials. 4/ Porous Metal Revision Shells for Management of Contained Acetabular Bone Defects at 5 to 10 Years Follow-up. 5/ Segmental Proximal Femoral Bone Loss and Revision Arthroplasty in Developmental Dysplasia of the Hip: The Role of Proximal Femoral Allograft. 6/ Radiographic evidence of Pincer-type femoroacetabular impingement in patients with end stage hip osteoarthritis.

Kuzyk P: Orthopaedic Research Society, San Francisco, California, United States, 2012. Does Femoral Retroversion Affect Outcomes for Femoral Acetabular Impingement Surgery?

Kuzyk P: American Academy of Orthopaedic Surgery, San Francisco, California, United States, 2012. Poster Presentation: Radiographic Evidence of Cam Type Femoroacetabular Impingement in Young Patients with Hip Osteoarthritis.

Kuzyk Paul: Canadian Orthopaedic Association, Minneapolis, Minnesota, United States, 2012. Speaker: External Fixation versus Open Reduction with Plate Fixation for Distal Radius Fractures: A Meta-analysis of Randomized Controlled Trials.

Kuzyk P: European Federation of National Associations of Orthopaedics and Traumatology (EFORT), Berlin, Germany, 2012. Speaker: Radiographic evidence of Pincer-type femoroacetabular impingement in patients with end stage hip osteoarthritis.

Kuzyk P: International Society of Orthopaedic Surgery and Traumatology (SICOT), Dubai, United Arab Emirates, 2012. Poster Presentation: Radiographic evidence of Pincer-type femoroacetabular impingement in patients with end stage hip osteoarthritis.

Safir O: Canadian Orthopaedic Association/CORS Annual Meeting, Ottawa, Ontario, Canada, 2012. Speaker: 1/ Porous Metal Revision Shells for Management of Contained Acetabular Bone Defects at 5 to 10 Years Follow-up. 2/ The Toronto Orthopaedic Boot Camp Experience: A new educational approach to introduce in-coming Orthopaedic Residents to surgical skills.

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.

Wunder JS: George B. “Chip” Reid, Jr. Memorial Lecture, Baltimore, Maryland, United States, 6 March 2013. Distinguished Speaker: Novel Treatment Opportunities for Chondrosarcoma: Bedside-to-Bench Translational Research.

Wunder JS: AAOS, Chicago, Illinois, United States, 21 March 2013. Distinguished Speaker: Failure rates of internal fixation of femur fractures after soft tissue sarcoma resection and radiation.

Wunder JS: MSTS Specialty Day, Chicago, Illinois, United States, 23 March 2013. Distinguished Speaker: The role of chemotherapy in the management of synovial sarcoma.

Wunder JS: 2013 Seoul Sarcoma Symposium, Seoul, Korea, Democratic People’s Republic Of, 8 May 2013. Distinguished Speaker: Surgical Treatment of Soft Tissue Sarcoma: New Insights with Advances in Adjuvant therapy and Imaging.

Wunder JS: 2013 Seoul Sarcoma Symposium, Seoul, Korea, Democratic People’s Republic Of, 10 May 2013. Distinguished Speaker: Collaboration in Sarcoma: Role of the Orthopedic Oncologist.

Wunder JS: 26th EMSOS - European Musculoskeletal Oncology Society, Gothenburg, Sweden, 29-31 May 2013. 1/ Invited Lecturer: Improving outcomes in soft tissue sarcoma with coordinated surgery and intensity modulated radiotherapy (IMRT). 2/ Distinguished Speaker: Cancer Stem Cells In Sarcoma. 3/ Invited Speaker: Metastasis: Translational Research To Clinical Care.

Research and Investigations

A Murine Model of Adynamic Bone Disease. Grynepas M, Alman B, Willett T. Canadian Institutes of Health Research (CIHR), (\$480,000 2010 - 2014).

Biomechanics of Novel Implant for Unstable Hip Fracture Fixation. Schemitsch E, Walmsley D. Stryker Canada. (2011 - present).

Cancer Stem Cells: Musculoskeletal Tumours. Alman B, Dick J, Wunder J. Ontario Institute for Cancer Research (OICR). (\$150,000 2013 - 2018).

Characterizing the Sarcoma Tumor Initiating Cell: Implications for the Development of Novel Treatments for Undifferentiated Pleomorphic Sarcoma. Alman B, Wunder J: Canadian Institutes of Health Research (CIHR). (\$732,720 2012 - 2017).

Comparison of a Retrograde Intramedullary Nail, Polyaxial Locking Plate, and Intramedullary Fibular Strut Allograft with Polyaxial Locking Plate for Fixation of Periprosthetic Distal Femur Fracture Post Total Knee Arthroplasty. Kuzyk P, Backstein D, Willet T, Dhotar H. Orthopaedic Research and Education Fund (OREF), (\$41,850 2012 - 2013).

Does self regulated learning produce superior skills compared to instructor-regulated learning when acquiring new surgical skills during residency training? Sonnadara R, Safir O, Garbedian S, Ferguson P, Nusiainen M. Royal College Physician. (2012).

Engineering of Irradiation-Sterilized Musculoskeletal Allografts for Improved Biomechanical Performance. Willett T, Grynepas M: Canadian Institutes of Health Research (CIHR), (\$230,350 2011 - 2014).

Hedgehog signaling in cartilage neoplasia and development. Alman B, Wunder JS: Canadian Institutes of Health Research (CIHR). (\$161,589 2008 - 2013).

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

Casteno V, Hermenegildo J, Ravichandiran K, Loh E, McKee N, Agur A. Intramuscular innervation: A methodological approach using digitization and 3D modeling of three different muscles. *Clin Anat.* 2012; 25:929-955.

Li Z, Ravichandiran K, Lee D, McKee N, Agur A. An architecturally comprehensive 3D computer model of the intrinsic musculotendinous structures of the hand. *Clin Anat.* 2012; 25:929-955.

Li Z, Ravichandiran K, McKee N, Agur A. Comprehensive 3D Muscle and Tendon Data of All Muscles of one Forearm and Hand. *Canadian Journal of Plastic Surgery.* 2012; 20:136-137.

Ravichandiran M, Ravichandiran N, Ravichandiran K, McKee NH, Richardson D, Oliver M, Agur AM. Neuromuscular partitioning in the extensor carpi radialis longus and brevis based on intramuscular nerve distribution patterns: A three-dimensional modeling study. *Clinical Anatomy.* 2012; 25(3): 366-72.

Division of Urology

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

Publications

Bachir BG, Shariat SF, Zlotta A, Svatek R, Black PC, Shah JB, Kassouf W; on behalf of the Bladder Cancer Think Tank (Bladder Cancer Advocacy Network) and Canadian Bladder Cancer Network (Bladder Cancer Canada). Demographic analysis of randomized controlled trials in bladder cancer. *BJU Int.* 2013; 111(3):419-26.

Cassidy D, Jarvi K, Grober E, Lo K. Varicocele surgery or embolization: Which is better? *The Canadian Journal of Urology.* 2012 Aug;6(4):266-8..

Cassidy D, Jarvi K, Grober E, Lo K. Mini-incision vasectomy reversal using no-scalpel vasectomy instruments and principles. *Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants.* 2012; 1/e. 107-113.

Horovitz D, Turker P, Bostrom PJ, Mirtti T, Nurmi M, Kuk C, Kulkarni G, Fleshner NE, Finelli A, Jewett MA, Zlotta AR. Does patient age affect survival after radical cystectomy? *BJU Int.* 2012; 110 (11 Pt B):E486-93.

Jarvi K. Hairless or fertile? Finasteride leads to epididymal changes and infertility in rats. *Fertility and Sterility.* 2012 Jun;97(6):1298.

Larré S, Catto JW, Cookson MS, Messing EM, Shariat SF, Soloway MS, Svatek RS, Lotan Y, Zlotta AR, Grossman HB. Screening for Bladder Cancer: Rationale, Limitations, Whom to Target, and Perspectives. *Eur Urol.* 2013; 63(6):1049-58.

Lo KC, Roberts M. Preservation of Male Fertility. *Surgical and Medical Management of Male Infertility. Male Infertility: Surgical and medical management.* Cambridge University Press, Cambridge, UK (Goldstein M, Schlegel PN: eds.) 2013 Feb.

Louis AS, Kalnin R, Maganti M, Pintilie M, Matthew AG, Finelli A, Zlotta AR, Fleshner N, Kulkarni G, Hamilton R, Jewett M, Robinette M, Alibhai SM, Trachtenberg J. Oncologic outcomes following radical

prostatectomy in the active surveillance era. *Can Urol Assoc J.* 2013; 7(7-8): E475-80.

Miah S, Dudzic E, Drayton RM, Zlotta AR, Morgan SL, Rosario DJ, Hamdy FC, Catto JW. An evaluation of urinary microRNA reveals a high sensitivity for bladder cancer. *Br J Cancer.* 2012;107(1):123-8.

Olkhov-Mitsel E, van der Kwast T, Kron KJ, Ozcelik H, Briollais L, Massey C, Recker F, Kwiatkowski M, Fleshner NE, Diamandis EP, Zlotta AR, Bapat B. Quantitative DNA methylation analysis of genes coding for kallikrein-related peptidases 6 and 10 as biomarkers for prostate cancer. *Epigenetics.* 2012 Sept;7(9):1037-45.

Ooi CY, Dupuis A, Ellis L, Ni A, Jarvi K, Martin S, Ray P, Steele L, Kortan P, Gonska T, Dorfman R, Solomon M, Zielenski J, Corey M, Tullis E, Durie P. Comparing the American and European diagnostic guidelines for cystic fibrosis: same disease, different language. *THORAX.* 2012 Jul;67(7):618-24.

Perlis N, Turker P, Bostrom PJ, Kuk C, Mirtti T, Kulkarni G, Fleshner NE, Jewett MA, Finelli A, Zlotta AR. Upper urinary tract and urethral recurrences following radical cystectomy: review of risk factors and outcomes between centres with different follow-up protocols. *World J Urol.* 2013; 31(1):161-7.

Perlis N, Zlotta AR, Beyene J, Finelli A, Fleshner NE, Kulkarni GS. Immediate Post-Transurethral Resection of Bladder Tumor Intravesical Chemotherapy Prevents Non-Muscle-invasive Bladder Cancer Recurrences: An Updated Meta-analysis on 2548 Patients and Quality-of-Evidence Review. *Eur Urol.* 2013; 64(3):421-30.

Rink M, Xylinas E, Trinh QD, Lotan Y, Margulis V, Raman JD, Fisch M, Lee RK, Chun FK, Abdennabi J, Seitz C, Pycha A, Zlotta AR, Karakiewicz PI, Babjuk M, Scherr DS, Shariat SF; Upper Tract Urothelial Carcinoma Collaboration (UTUCC). Gender-specific effect of smoking on upper tract urothelial carcinoma outcomes. *BJU Int.* 2013; 112(5):623-37.

Saraon P, Cretu D, Musrap N, Karagiannis KS, Batruch I, Drabovich AP, van der Kwast T, Atsushi M, Morrissey C, Jarvi K, Diamandis EP. Quantitative proteomics reveals that enzymes of the ketogenic pathway are elevated during prostate cancer progression. *Journal of Biological Chemistry. Mol Cell Proteomics.* 2013 Feb 26. [Epub ahead of print]. PMID: 23443136.

Saraon P, Musrap N, Cretu D, Karagiannis GS, Batruch I, Smith C, Drabovich AP, Trudel D, van der Kwast T, Morrissey C, Jarvi KA, Diamandis EP. Proteomic profiling of androgen-independent prostate cancer cell lines reveals a role for Protein S during the development of high grade and castrate-resistant prostate cancer. *Journal of Biological Chemistry.* 2012 Oct 5;287(41):34019-31.

Satkunasivam R, Kulkarni GS, Zlotta AR, Kalnin R, Trachtenberg J, Fleshner NE, Hamilton RJ, Jewett MA, Finelli A. Pathologic, Oncologic and Functional Outcomes of Radical Prostatectomy Following Active Surveillance. *J Urol.* 2013; 190(1):91-5.

Skeldon SC, Semotiuk K, Aronson M, Holter S, Gallinger S, Pollett A, Kuk C, van Rhijn B, Bostrom P, Cohen Z, Fleshner NE, Jewett MA, Hanna S, Shariat SF, van der Kwast TH, Evans A, Catto J, Bapat B, Zlotta AR. Patients with Lynch Syndrome Mismatch Repair Gene Mutations are at Higher Risk for Not Only Upper Tract Urothelial Cancer but also Bladder Cancer. *Eur Urol.* 2013; 63(2):379-85.

Turker P, Bostrom PJ, Wroclawski ML, van Rhijn B, Kortekangas H, Kuk C, Mirtti T, Fleshner NE, Jewett MA, Finelli A, Kwast TV, Evans A, Sweet J, Laato M, Zlotta AR. Upstaging of urothelial cancer at the time of radical cystectomy: factors associated with upstaging and its effect on outcome. *BJU Int.* 2012; 110(6):804-11.

van Rhijn BW, Liu L, Vis AN, Bostrom PJ, Zuiverloon TC, Fleshner NE, van der Aa MN, Alkhateeb SS, Bangma CH, Jewett MA, Zwarthoff EC, Bapat B, van der Kwast TH, Zlotta AR. Prognostic value of molecular markers, sub-stage and European Organisation for the Research and Treatment of Cancer risk scores in primary T1 bladder cancer. *BJU Int.* 2012;110(8):1169-76.

Yates DR, Brausi MA, Catto JW, Dalbagni G, Rouprêt M, Shariat SF, Sylvester RJ, Witjes JA, Zlotta AR, Palou-Redorta J. Treatment options available for bacillus Calmette-Guérin failure in non-muscle-invasive bladder cancer. *Eur Urol.* 2012 Dec;62(6):1088-96.

Wong LM, Trottier G, Toi A, Lawrentschuk N, Van der Kwast TH, Zlotta A, Kulkarni G, Hamilton R, Trachtenberg J, Evans A, Timilshina N, Fleshner NE, Finelli A. Should Follow-up Biopsies for Men on Active Surveillance for Prostate Cancer Be Restricted to Limited Templates? *Urology.* 2013; 82(2):405-9.

Zlotta AR. Bladder cancer: Validating what we've got. *Can Urol Assoc J.* 2013; 7(1-2):33-4.

Zlotta AR, Egawa S, Pushkar D, Govorov A, Kimura T, Kido M, Takahashi H, Kuk C, Kovylyna M, Aldaoud N, Fleshner N, Finelli A, Klotz L, Sykes J, Lockwood G, van der Kwast TH. Prevalence of

Prostate Cancer on Autopsy: Cross-Sectional Study on Unscreened Caucasian and Asian Men. *J Natl Cancer Inst.* 2013; 105(14):1050-1058.

Zlotta A and Kuk C. Transurethral Needle Ablation of the Prostate. *Smith's Textbook of Endourology*, 3rd edition. Chapter 125; 1503-1521. 2012.

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: Prostate Cancer Canada - Toronto, Ontario, Canada, 27 March 2013. Invited Speaker: "So I've survived prostate cancer! What next?" Survivorship issues in men with prostate cancer.

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: 21th 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

Active Surveillance Magnetic Resonance Imaging Study (ASIST Trial). Fleshner N, Kulkarni G, Finelli A, Jewett M, Zlotta A, Trachtenberg J, Ghai, S. Canadian Urology Research Consortium. (2011 - 2013).

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)

A Novel Testicular Germ Cell Maturation Model for Fertility Preservation in Pre-pubertal Cancer Patients and Studies of Gonadotoxic Agents. Lo K, McKerlie C, Mullen B. National Institutes of Health (NIH) (USA). (\$723,516 2010 - 2013).

A Phase 3 International, Multicenter, Double-Blind, Placebo-Controlled, Randomized Trial Evaluating the Efficacy and Safety of Multiple Instillations of Intravesical Apaziquone vs. Placebo in Patients with Low-Intermediate Risk Non-Muscle Invasive Bladder Cancer (NMIBC). Kulkarni G, Finelli A, Fleshner N, Jewett M, Zlotta A, Trachtenberg J. Spectrum Pharmaceuticals Inc. (2012 – 2013)

A randomized, double-blind, parallel, placebo-controlled, phase 4, multicenter study to assess efficacy and safety of VESicare® (solifenacin succinate) to improve urinary continence of subjects after robotic assisted radical prostatectomy. Fleshner N, Finelli A, Jewett M, Kulkarni G, Zlotta A. Astellas Pharma Global Development Inc. (2012 - 2013)

Active Surveillance Magnetic Resonance Imaging Study (ASIST Trial). Fleshner N, Kulkarni G, Finelli A, Jewett M, Zlotta A, Trachtenberg J, Ghai, S. Canadian Urology Research Consortium. (2011 – 2013)

Discovery of genetic abnormalities associated with male infertility. Jarvi K, Kolomietz E. Lo K, Grober E. McLaughlin Centre, University of Toronto (\$50,000 2012 - 2013).

Establishing a biological network strategy for personalizing cancer diagnosis, prognosis and drug development using genitourinary cancer as a model. Wrana J. Zlotta A, van der Kwast T, Azar A. Canadian Cancer Society, (\$199,680 2012 – 2014).

Integrated Approach to Discover Prostate Cancer Biomarkers in Seminal Plasma. Diamandis EP, Drabovich A, Jarvi K. Canadian Institutes of Health Research (CIHR) (\$417,240 2013 - 2016).

Investigation of DNA methylation markers for improved prediction of aggressive disease in prostate cancer patients. Bapat B, van der Kwast T, Fleshner N, Klotz L, Venkateswaran V, Vesprini D, Lockwood G, Zlotta A. Prostate Cancer Research Foundation of Canada/Prostate Cancer Canada (PCC). (\$60,000 2011 - 2013).

Novel semen biomarkers to identify sperm production in men with infertility: A non-invasive method to characterize men with azoospermia or no sperm in the semen, into those with and without testicular sperm production. Jarvi K, Diamandis EP, Lo K, Grober G, Mullen B, Briollais L. Canadian Institutes of Health Research (CIHR). (\$152,499 2011 - 2013).

Parent, provider, and survivor perspectives of investigational fertility preservation interventions for pre-pubertal boys with cancer: Exploring the factors influencing decisions and measuring preferences. Lorenza A, Lo K. C17, Research Grant. (\$97,054 2012 - 2013).

Semen Proteomics - discovery of prostate cancer biomarkers. Lo K, Jarvi K, Diamandis E. cy pres, Judgement of the Honourable Mr. Justice John Brockenshire. (\$600,000 2010 - 2014).

Semen Proteomics to Identify Novel Prostate Cancer Biomarkers. Jarvi K, Diamandis EP, Zlotta AR, Fleshner N, Finelli A. Canadian Cancer Society, (\$413,853 2010 - 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



CAR: M. Grynypas, T. Willett, J Wunder, D. Backstein



St. Joseph's Health Centre

Chris Compeau, *Surgeon-in-Chief*

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

General Surgery	Richard Hart
Thoracic Surgery	Maurice Blitz
Orthopedic Surgery	Amr El Maraghy
Plastic Surgery	Craig Fielding
Urology	Umesh Jain

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

Publications

Hanna W, Ko M, Blitz M, Shargall Y, Compeau CG. Thoracoscopic Nuss procedure for adults with pectus excavatum: excellent long-term results and patient satisfaction. *Ann Thorac Surg.* 2013; 96(3):pp 1033-8.

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

Kasrai L: Sixth Annual QMP Reconstructive Surgery Symposium, Chicago, Illinois, USA, Nov 17, 2012.
Master Class: Ear Reconstruction.

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

Hanna W, Ko M, Blitz M, Shargall Y, Compeau CG: Thoracoscopic Nuss procedure for adults with pectus excavatum: excellent long-term results and patient satisfaction. *Ann Thorac Surg.* 2013; 96(3):pp 1033-8.

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

Stewart Building Staff

Front: Val Cabral

Back, from left:
Stephanie Neilson , Sylvia
Perry, Nancy Condo, Alina
Gaspar,.



Division of Urology

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

Publications

Raes A, Mclean A, Jain U, Chawla A.: Hemostatic adjuncts in laparoscopic partial nephrectomy. Journal of Laparoendoscopic & Advanced Surgical Techniques & Part B: Videoscopy: 2012

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





St. Michael's Hospital

Ori D. Rotstein, *Surgeon-in-Chief/Robert B. Salter Chair in Surgical Research*

Heads of Division

Cardiac Surgery	Dr. David Latter
General Surgery	Dr. Nancy Baxter (Interim)
Neurosurgery	Dr. Loch Macdonald
Orthopaedic Surgery	Dr. Timothy Daniels
Plastic Surgery	Dr. James Mahoney
Urology	Dr. Kenneth Pace
Vascular Surgery	Dr. Ori Rotstein (Interim)

2012-2013

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 a 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 Dalhousie 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 preceding 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.

Division of Cardiac Surgery

Dr. D. Bonneau Associate Professor
Dr. L.E. Errett Professor
Dr. D.A. Latter Associate Professor (Division Head)

Dr. M. Peterson Assistant Professor
Dr. S. Verma Associate Professor
Dr. P.A. Sullivan Lecturer

Publications

Di Eusanio M, Patel HJ, Nienaber CA, Montgomery DM, Korach A, Sundt TM, Devinctiis C, Voehringer M, Peterson MD, Myrmel T, Folesani G, Larsen M, Desai ND, Bavaria JE, Appoo JJ, Kieser TM, Fattori R, Eagle K, Di Bartolomeo R, Trimarchi S. Patients with type A acute aortic dissection presenting with major brain injury: should we operate on them? J Thorac Cardiovasc Surg. 2013 Mar; 143.3 Suppl.S213-21. S213-21.

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

complicated by mesenteric malperfusion: Observations from the International Registry of Acute Aortic Dissection. *J Thorac Cardiovasc Surg.* 2013 Feb; 145(2):385-390.

Fedak PW, Verma S. The molecular fingerprint of bicuspid aortopathy. *J Thorac Cardiovasc Surg.* 2013; 145(5):1334.

Fitchett DH, Mazer CD, Eikelboom J, Verma S. Anti-Platelet Therapy and Cardiac Surgery. Review of Recent Evidence and Clinical Implications. *Can J Cardiol.* 2013; 29: 1042-1047.

Gupta A, Kajil M, Singh N, Tsigoulis M, Verma S, Gupta M. Variability in Traditional and Novel Cardiovascular Risk Factors by Ethnic Origin: Insights from the Primary Care Audit of Global Risk Management (PARADIGM) Study. *Circulation.* 2012; 126:A14502.

Gupta M, Kajil M, Tsigoulis M, Verma S. Prevalence of impaired fasting glucose in healthy middle-aged adults: Insights from the Primary Care Audit of Global Risk Management (PARADIGM) study. *Can J Cardiol.* 2012; 28(5): 243.

Gupta M, Singh N, Tsigoulis M, Kajil M, Hirjikaka S, Quan A, Teoh H, Verma S. Perceptions of Canadian primary care physicians towards cardiovascular risk assessment and lipid management. *Can J Cardiol.* 2012; 28(1): 14-19.

Gupta M, Teoh H, Kajil M, Tsigoulis M, Quan A, Braga MFB, Verma S. The effects of rosiglitazone on inflammatory biomarkers and adipokines in diabetic, hypertensive patients. *Exp Clin Cardiol.* 2012; 17(4): 191-196.

Harris KM, Braverman AC, Eagle KA, Woznicki EM, Pyeritz RE, Myrmel T, Peterson MD, Voehringer M, Fattori R, Januzzi JL, Gilon D, Montgomery DG, Nienaber CA, Trimarchi S, Isselbacher EM, Evangelista A. Acute aortic intramural hematoma: an analysis from the International Registry of Acute Aortic Dissection. *Circulation.* 2012 Sep 11; 126.11 Suppl 1.S91-6.

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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: The Toronto Acute Coronary Syndrome (ACS) Summit, Toronto, Ontario, Canada, 9 February 2013. Co-chair.

Verma S: 6th Annual Western Cardiovascular Update, London, Ontario, Canada, 1 April 2013. Keynote Speaker: Atherosclerosis Risk Reduction: Role of Inflammation.

Verma S: Durham Regional Diabetes Day, Thornhill, Ontario, Canada, 26 April 2013. Invited Speaker: ACTION: Approaches for optimization of dyslipidemia treatment: a peer-to-peer sharing program.

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

Current Trends in the Management of Atrial Fibrillation in Canada (SPRINT-AF Registry). Bayer AG. Verma S, Gupta M. (\$3,200,000 2012 - present).

Elucidating the Role of MicroRNA-145 in Atherosclerosis. Verma S. Heart and Stroke Foundation of Ontario (HSFO). (\$138,726 2012 - 2013).

Improving the Assessment and treatment of severe aortic stenosis by evaluating care gaps and advancing risk predictions. Ko D, Peterson M. Heart and Stroke Foundation of Ontario, Aortic Stenosis/TAVI. (\$331,058 2012 - 2015).

TAC-CALL: Thoracic Aortic Care. Comprehensive Aortic Care on-line from Acute Presentation to long-term Follow-up. Caldarone C, Fam N, Moloney T. St. Michael's Hospital AFP, SMH AIF -080. (\$187,446 2013 - 2015).

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

Dr. N. Ahmed	Associate Professor	Dr. S. Kitto	Assistant Professor
Dr. J. Ali	Professor	Dr. J. Koo	Associate Professor
Dr. N. Baxter	Associate Professor (Interim Head)	Dr. W. Kuebler	Associate Professor
Dr. J.M.A. Bohnen	Professor	Dr. B. Lawless	Assistant Professor
Dr. M.J. Burnstein	Associate Professor	Dr. J.C. Marshall	Professor
Dr. S. de Montbrun	Assistant Professor	Dr. R. Mustard	Associate Professor
Dr. R. George	Associate Professor	Dr. J.B. Rezende-Neto	Associate Professor
Dr. T. Grantcharov	Associate Professor	Dr. O. Rotstein	Professor
Dr. A. Kapus	Professor	Dr. K. Szaszi	Associate Professor

Publications

Ahmed N, Conn LG, Chiu M, Korabi B, Qureshi A, Nathens AB and Kitto S. Career satisfaction among general surgeons in Canada: a qualitative study of enablers and barriers to improve recruitment and retention in general surgery. *Acad Med.* 2012 Nov;87(11):1616-21.

Ahmed N, Gotlib CL, Chiu M, Kurabi B, Qureshi A, Nathens A, Kitto S. Career Satisfaction in General Surgery in Canada: A qualitative study of enablers and barriers to improve recruitment and retention in general surgery, *Academic Medicine.* 2012 Nov; 87(11):1-6.

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

Ali J. *Torso Trauma. Principles of Critical Care.* 4th. 2013.

Ali J, Chen R, Walsh F. Preoperative Assessment of the High Risk Surgical Patient. *Principles of Critical Care.* 4th Edition. 2013.

Ali J, Chen R, Walsh F. Priorities in Multisystem Trauma. *Principles of Critical Care.* 4th Edition. 2013.

Ali J, Karma S, Gautam S, Sorvari A, Misra MC. Improving Trauma Care in India: the Potential Role of the Rural Trauma Team Development Course (RTTDC). *Indian J Surg.* 2012 Dec; DOI: 10.1007/s12262-012-0775-2. AID: 0972-2068.

Ali J, Sorvari A, Pandya A. Teaching Emergency Surgical Skills for Trauma Resuscitation - Mechanical Simulator versus Animal Model. *ISRN Emergency Medicine.* 2012; Article ID 259864, doi: 10.5402/2012/259864. AID: 259864.

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- Baxter NN, Warren JL, Barrett MJ, Stukel TA, Doria-Rose VP.** The association between colorectal cancer mortality in a US cohort according to site of cancer and colonoscopist specialty. *J Clin Onc.* 2012 Jul 20; 30:2664-9.
- Bayer O, Reinhart K, Kohl M, Kabisch B, Marshall J, Sakr Y, Bauer M, Hartog C, Schwartzkopf D, Riedemann N.** Effects of fluid resuscitation with synthetic colloids or crystalloids alone on shock reversal, fluid balance and patient outcomes in patients with severe sepsis - a prospective sequential analysis. *Critical Care Medicine.* 2012 Sep; 40(9):2543-2551.
- Bonrath EM, Dedy NJ, Zevin B, Grantcharov TP.** Defining technical errors in laparoscopic surgery: a systematic review. *Surg Endosc.* 2013 Feb 23; PMID: 23436086. AID: 10.1007/s00464-013-2827-5 [doi].
- Bonrath E, Grantcharov TP.** Complications in bariatric surgery. In: *Fundamentals of bariatric surgery.* Nova publishers. 2012 Oct.
- Bonrath E, Rijcken E, Fritz M, Weber B, Grantcharov T, Senninger N.** Laparoscopic simulation training. Does timing impact the quality of skills acquisition? *Surg Endosc.* 2012 Oct 6.
- Brindley PG, Jones DB, Grantcharov T, de Gara C.** Canadian Association of University Surgeons' Annual Symposium. Surgical simulation: the solution to safe training or a promise unfulfilled? *Can J Surg.* 2012 Aug;55(4):S200-6.
- Burns KE, Rizvi L, Tan W, Marshall JC, Pope K.** Participation of ICUs in Critical Care Pandemic Research: A Province Wide, Cross-Sectional Survey. *Critical Care Medicine.* 2013 Apr;41(4):1009-16.
- Burns KE, Zubrinich C, Tan W, Raptis S, Xiong W, Smith O, McDonald E, Marshall JC, Saginur R, Heslegrave R, Rubinfeld G, Cook DJ; Canadian Critical Care Trials Group.** Research recruitment practices and critically ill patients. *Am J Respir Crit Care Med.* 2013 Jun 1;187(11):1212-8.
- Campbell RM, Hodges B, Fisman D, Klei A.G, Kitto S.** A comparison of Health Access between Permanent Residents, Undocumented Immigrants and Refugee Claimants in Toronto, Canada. *Journal of Immigrant and Minority Health.* published online 03 November 2012. doi: 10.1007/s10903-012-9740-1.
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- de Mestral C, Gomez D, Haas B, Zagorski B, Rotstein OD, Nathens AB.** Cholecystostomy: A bridge to hospital discharge but not delayed cholecystectomy. *J Trauma Acute Care Surg.* 2013 Jan; 74(1):175-80.
- de Mestral C, Rotstein OD, Laupacis A, Hoch JS, Zagorski B, Nathens AB.** A population-based analysis of the clinical course of 10,304 patients with acute cholecystitis, discharged without cholecystectomy. *J Trauma Acute Care Surg.* 2013 Jan;74(1):26-31.
- de Mestral C, Rotstein OD, Laupacis A, Hoch JS, Zagorski B, Nathens AB.** A population-based analysis of the clinical course of 10,304 patients with acute cholecystitis, discharged without cholecystectomy. *J Trauma Acute Care Surg.* 2013 Jan;74(1):26-31. **de Montbrun S, Khalili K, MacLellan S, Easson A.** Post-traumatic Morel-Lavallee lesion of the lower back mimicking an abscess: a Case Report. *Surgical Science.* 2012; 3(4): 213-215.

de Montbrun S, MacRae H. Simulation in Surgical Education. *Clinics in Colon and Rectal Surgery*. 2012 Sep; 25 (3):165.

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de Montbrun S, Roberts P, Lowry A, Ault G, Burnstein M, Cataldo P, Dozois E, Dunn G, Fleshman J, Isenberg G, Mahmoud N, Reznick R, Satterthwaite L, Schoetz D, Trudel J, Weiss E, Wexner S, Macrae H. A Novel Approach to Assessing Technical Competence of Colorectal Surgery Residents: The Development and Evaluation of the Colorectal Objective Structured Assessment of Technical Skill (COSATS). *Annals of Surgery* "Published Ahead of Print" June 28, 2013.

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Ly DL, Waheed F, Lodyga M, Speight P, Masszi A, Nakano H, Hersom M, Pedersen SF, Szászi K, Kapus A. Hyperosmotic stress regulates the distribution and stability of Myocardin-Related Transcription Factor, a key modulator of the cytoskeleton. *American Journal of Physiology Cell Physiology*. 2013 Jan 15; 304(2):C115-27.

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- Rezende-Neto JB.** Editorial Critique – Hydrogen-rich saline reduces the oxidative stress and relieves the severity of trauma-induced acute pancreatitis in rats. *J Trauma*. 2012; 72:1561.
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Invited Visits

Ali J: American College of Surgeons, Chicago, Illinois, United States, 28 September 2012. Presenter: Presentation on Advanced Trauma Life Support (ATLS) Program, Instructor Course -ATLS International Meeting.

Ali J: University of Newfoundland, Newfoundland and Labrador, Canada, 26 October 2012. Director: Advanced Trauma Life Support (ATLS) Program, Instructor Course.

Ali J: Parry Sound, Ontario, Canada, 3 November 2012. Director: Rural Trauma Team Development Course (RTTDC).

Ali J: College of Physicians and Surgeons of Pakistan, Karachi, Pakistan, 7-12 November 2012. 1/ Course Director: Inaugural Rural Trauma Team Development Course. 2/ Chairman: Workshop on Postgraduate Education in Surgery. 3/ Invited Lecturer: Potential Role of Telemedicine in ATLS Promulgation. 4/ Instructor Course Educator and Course Director: Advanced Trauma Life Support (ATLS) Program.

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.

Ali J: Breast Surgery Unit, St. James Oncology Suite, Trinidad And Tobago, 7 June 2013. Invited Lecturer: Caring for the Breast Cancer Patient.

Ali J: University of the West Indies, Kingston, Jamaica, 9 June 2013. Invited Lecturer: End points in Trauma Resuscitation.

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.

Baxter N: American College of Surgeons (ACS), Chicago, Illinois, United States, 8-10 November 2012. Faculty: American College of Surgeons (ACS) Outcomes Research Course.

Burnstein MJ: Hospital Italiano de Buenos Aires, Buenos Aires, Argentina, 6-7 September 2012. Visiting Professor: 1/ Extra-levator Perineal Dissection. 2/ Operative Treatment of Crohn's Disease. 3/ Diverticulitis - Old Problem, New Ideas. 4/ The Distal Rectal Anastomosis - Avoiding Trouble.

Burnstein MJ: Benign Anorectal Symposium, American College of Surgeons, Chicago, Illinois, United States, 1 October 2012. Invited Speaker: Hemorrhoids Burnstein MJ: Annual Meeting, American Society of Colon & Rectal Surgeons, Phoenix, Arizona, United States, 1 May 2013. Invited Speaker: 1/ Worst Cases Symposium. 2/ Meet the Professor Breakfast, C. Difficile Colitis.

Burnstein MJ: Clinical Congress of the Caribbean College of Surgeons, Tortola, Virgin Islands, British, 12 June 2013. Distinguished Speaker: Technical Aspects of Rectal Cancer Management.

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: Dalhousie University, Halifax, Nova Scotia, Canada, 27 March 2013. Visiting Professor: Certification and Technical Competence.

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.

de Montbrun S: Association of Program Directors for Colon and Rectal Surgery, Chicago, Illinois, United States, 8 June 2013. Keynote Speaker: Colorectal Objective Assessment of Technical Skills (COSATS).

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: American College of Surgeons Clinical Congress, Chicago, Illinois, United States, 2 October 2012. Chair: The future of surgical training and rehearsal.

Grantcharov T: Bulgarian Surgical Society Annual Congress, Varna, Bulgaria, 12 October 2012. Distinguished Speaker: 1/ Laparoscopic treatment of gastric cancer. 2/ Laparoscopic treatment of large para-esophageal hernias. 3/ Design, validation and implementation of competency-based training curricula in laparoscopic surgery.

Grantcharov T: Catholic University, Santiago, Santiago, Chile, 18-19 October 2012. Distinguished Speaker: 1/ How to implement simulation into surgical training curricula? 2/ Advanced gastric cancer - role of laparoscopic surgery. 3/ Debate - laparoscopic vs. endoscopic treatment of early gastric cancer.

Grantcharov T: Copenhagen, Denmark, 23 November 2012. Invited Speaker: Controversies in the treatment of large para-esophageal hernias.

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

Grantcharov T: 1st International Retreat in Surgical Education and Innovation. Palm Beach, Florida, United States, 5 January 2013. Chair.

Grantcharov T: Royal College of Physicians and Surgeons of Canada, Specialty Committee in Thoracic Surgery, Ottawa, Ontario, Canada, 22 April 2013. Invited Speaker: Design of competency-based curricula in minimally invasive surgery.

Grantcharov T: Association of Program Directors in Surgery (APDS), Orlando, Florida, United States, 26 April 2013. Chair: Workshop: Defining High Quality Surgical Training.

Kitto S: International Association for Medical Education, Lyon, France, 27 August 2012. Presenter: Preliminary Findings: Qualitative Analysis of the HPB Community of Practice. Lawless B: American Thoracic Society Annual Scientific Meeting, Philadelphia, Pennsylvania, United States, 22 May 2013. Presenter: CCRT Impact on Cardiac Arrest Rates and Mortality Rates.

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: All Together Better Health VI, Kobe, Japan, 7 October 2012. Presenter: Interprofessional non-technical skills for surgeons in disaster response: a qualitative study of the Australian perspective.

Kitto S. 2012 SACME/ AAMC Fall Meeting, San Francisco, California, United States, November 2012. Presenter: The Perceived Intersections and Boundaries between the Domains of Continuing Education and Quality Improvement.

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: SCCPD Research Presentation Session at CCME 2013, Quebec, Canada, 20 April 2013. Invited Speaker: Assessing perceived and unperceived needs: The perspective and processes of Continuing Education Directors and Leaders.

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.

Kitto S: SACME 2013 Spring Meeting, Madison, Wisconsin, United States, April 2013. Speaker: Current thinking and future directions: Re-positioning relationships between continuing education, knowledge translation, quality improvement and patient safety.

Kitto S: CACHE Conference 2013, Vancouver, British Columbia, Canada, 11 June 2013. Keynote Speaker: Emerging TRENDS, MODELS AND THEORIES shaping CPD/CHE.

Lawless B: Ontario Hospital Association / Critical Care Services Ontario, Toronto, Ontario, Canada, 21 November 2012. Chair: Lawless, B. Quality Improvement Tools to Accelerate Excellence in Critical Care.

Lawless B: CIHR, CFHI, and the Saskatchewan Ministry of Health, Saskatchewan, Canada, 6 December 2012. Invited Speaker: A Physician Perspective on Physician Engagement and Leadership.

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: WHO Consultation: Towards effective treatment of severe acute respiratory illnesses, Anecy, France, 5-6 July 2012. Invited Speaker: Critical care for severe acute respiratory illness.

Marshall JC: 11th International Congress on Complexity in Acute Illness, Ottawa, Ontario, Canada, 6-9 September 2012. Invited Speaker: What is a disease in the critically ill? Towards a staging system for severe acute illness.

Marshall JC: Seminar on the Treatment of Severe Infections, Winnipeg, Manitoba, Canada, 18 September 2012. Invited Speaker: Acute therapy and de-escalation in abdominal sepsis.

Marshall JC: 1er Simposio Internacional de Medicina Crítica “Dr. José Besso, Caracas, Venezuela, Bolivarian Republic Of, 20-21 September 2012. Invited Speaker: 1/ Management of severe intra-abdominal sepsis. 2/ MODS: New horizons. 3/ The marvelous world of biomarkers. 4/ Sepsis trials: What do we need to know?

Marshall JC: 16th International Meeting, Peruvian Society of Intensive Medicine, Cusco, Peru, 26-28 September 2012. Invited Speaker: 1/ Biomarkers in shock. 2/ Damage control in the ICU. 3/ What can we do to improve the management of sepsis? 4/ Resuscitation and deresuscitation.

Marshall JC: XXXIX Reunión Anual Nacional Asociación Mexicana de Medicina Crítica y Terapia Intensiva,, Leon, Guanajuato, Mexico, 24-27 October 2012. Invited Speaker: 1/ Principles of source control in the management of infection for the intensivist. 2/ Critical illness is an iatrogenic disorder. 3/ Management of severe acute pancreatitis.

Marshall JC: American Heart Association Resuscitation Science Symposium, Los Angeles, California, United States, 4 November 2012. Invited Speaker: International Forum for Acute Care Trials: A global research initiative.

Marshall JC: International Sepsis Forum Sepsis 2012, Paris, France, 7-9 November 2012. Invited Speaker: Establishing efficacy in clinical trials.

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: International Influenza Networks Meeting, Scottsdale, Arizona, United States, 14-16 January 2013. Invited Speaker: International Forum for Acute Care Trials: A global acute care research initiative.

Marshall JC: Canadian Critical Care Trials Group Residents Research Day, Lake Louise, Alberta, Canada, 27 January 2013. Invited Speaker: 1/ The Canadian Critical Care Trials Group: Eight lessons learned. 2/ Building an academic career.

Marshall JC: 11th American Society for Microbiology Biodefense and Emerging Diseases Research Meeting, Washington, District of Columbia, United States, 25-27 February 2013. Invited Speaker: International Forum for Acute Care Trials: Global collaboration in acute care research.

Marshall JC: 33rd International Symposium of Intensive Care and Emergency Medicine, Brussels, Belgium, 19-22 March 2013. Invited Speaker: 1/ Is critical illness a disease? 2/ The abdominal compartment syndrome: Is it relevant? 3/ Why do good trials yield divergent results? 4/ How does the host recognize danger? 5/ Endotoxin plays an important role in sepsis. 6/ Decision-making in multiple trauma.

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)/Nampt/Visfatin.

Marshall JC: International Forum for Acute Care Trials/International Sepsis Forum Outcome Measures Colloquium, Amsterdam, Netherlands, 5-7 May 2013. Invited Speaker: Overview and objectives.

Marshall JC: 11th Simposio Internacional Emergencias Médicas y Paciente Crítico, Santiago, Chile, 9-10 May 2013. Invited Speaker: 1/ Source control in the management of complex infections. 2/ Cell biology for the intensivist. 3/ Endotoxin in critical illness: Epidemiology and treatment options.

Marshall JC: 1st meeting, Latin American Clinical Trials Investigators Network (LACTIN). Maipo, Chile, 11 May 2013. Invited Speaker: The Canadian Critical Care Trials Group and International Forum for Acute Care Trials (InFACT): Lessons learned.

Marshall JC: American Thoracic Society 2013 International Conference, Philadelphia, Pennsylvania, United States, 18-23 May 2013. Invited Speaker: Animal models of sepsis: Where have we gone wrong?

Marshall JC: Canadian Institutes of Health Research/Institute of Circulatory and Respiratory Health 2013 Young Investigators Forum, Toronto, Ontario, Canada, 27 May 2013. Keynote Speaker: Speaking science: New tools for a changing world.

Rezende-Neto JB: Experimental Surgery Course, Belo Horizonte, Brazil, 2012. Speaker: Experimental Models in Shock.

Rezende-Neto JB: XXI Scientific Week, Belo Horizonte, Brazil, 2012. Speaker: What is the Ideal Fluid Resuscitation Regimen in a Rat Model of Hemorrhagic Shock with Respect to Crystalloids, FFP and Fresh Whole Blood.

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 Association of Canada Annual Scientific Meeting, Toronto, Ontario, 2012. Speaker: 1/ Intra-abdominal injuries in Patients Who Sustain More Than One Gunshot Wound to the Abdomen: Should Nonoperative Management be Used? 2/ How does Head CT Correlates with ICP Monitoring and Impacts Monitoring Discontinuation in Trauma Patients with Marshall Scores I-II?

Rezende-Neto JB: Symposium in Microbiology, Belo Horizonte, Brazil, 2012. Speaker: 1/ Microbiology of Intra-Abdominal Infections: Prevalence and Susceptibility Profile to Antibiotic Agents. 2/ Microbiology of Intra-Abdominal Infection with: Emphasis on Anaerobes.

Rezende-Neto JB: Latin American Congress of Microbiology, Santos, Brazil, 2012. Speaker: Microbiological Evaluation of Intra-abdominal Infections with emphasis on anaerobes.

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 Risoleta 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.

Rotstein O: Canadian General Surgery Review, Ontario, Canada, April 2013. Invited Speaker: Intra-Abdominal Infections.

Rotstein O: Surgical Infection Society, Las Vegas, United States, April 2013. 1/ Discussant: Calcium/calmodulin-dependent protein kinase (CaMK) IV regulates mTOR expression and autophagy in macrophages during sepsis PLENARY SYMPOSIUM: The Art and Science of Surgical Infections. 2/ Facilitator: Mechanism of Cellular Responses PARALLEL Session I.

Research and Investigations

A population-based study of cancer incidence and mortality in patients with solid organ transplants.

Baxter NN: Canadian Institutes of Health Research. (\$682,732 2011 - 2016).

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).*

Canadian Critical Care Knowledge Translation Network. *Muscudere, John. Gibney N, Keenan S, Lawless B, Cook D, Dodek P, Heyland DK, Martin C, Scales D, et al. CIHR. (\$599,611 2012 - 2015).*

Cellular Immunotherapy for Septic Shock (CISS): A Phase I Trial. *Canadian Institutes of Health Research (CIHR). McIntyre LA, Courtman DW, Fergusson DA, Granton JT, Lalu MM, Marshall JC, Mei SH, Stewart DJ, Walley KR, Winston BW. (\$366,811 2012 - 2014).*

Combined in vitro/in vivo bioimaging approach for translational research in lung injury and repair.

Kapus A, Rotstein O. Canadian Foundation for Innovation. (\$389,428 2012 - 2015).

Establishing Validity, Reliability and Standard Setting of the Colorectal Objective Assessment of Technical Skill (COSATS). *de Montbrun S, MacRae H, Roberts P. American Society of Colon and Rectal Surgeons (ASCRS), Operative Competency Evaluation Committee. (\$135,698 2012 – 2014).*

Evaluating quality improvement interventions in colorectal cancer surgery in Ontario. *Simunovic, M: Canadian Institutes of Health Research. (\$619,015 2012 - 2017).*

Exploring factors that influence breast reconstruction use and outcomes: Phase I: How do physician attributes influence reconstruction decision making? *Musgrave M: Canadian Breast Cancer Foundation. (\$300,000 2011 - 2014).*

How does context influence knowledge exchange? An ethnographic study to identify strategies for improving researcher-research user collaboration. *Gagliardi AR: Cancer Care Ontario – Ontario Institute for Cancer Research Health Services Research Program – Knowledge Translation Research Network. (\$100,409 2012 - 2013).*

Identifying barriers to participation in colorectal cancer screening. *Baxter NN: Canadian Cancer Society Research Institute. (\$219,842 2011 - 2013).*

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).*

Long-term physical and psychological outcomes in colorectal cancer survivors. *Hart T: Canadian Institutes of Health Research. (\$144,487 2012 - 2014).*

Pan-Canadian colorectal cancer consortium. *Gallinger S: Terry Fox Research Institute Special Program Funding. (\$2,500,000 2012 - 2017).*

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

Utilization of Breast Reconstruction in the Treatment of Breast Cancer in Ontario and Identification of Barriers of Access: A Population-Based Study. *Baxter NN, Zhong T: Canadian Breast Cancer Foundation. (\$257,474 2011 - 2014).*

Honours Received

Ali J: Honorary Fellowship Award in Surgery, General Surgery, Dept of Surgery, Faculty of Medicine, College of Physicians and Surgeons of Pakistan, Karachi, Pakistan. Educator, Nov 2012 - Jun 2013.

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.

de Montbrun S: 2013 SSAT Career Development Award for Clinical/Outcomes/Education Research, The Society for Surgery of the Alimentary Tract, Toronto, Ontario, Canada. Mar 2013 - Mar 2015.

de Montbrun S: Protecting Human Research Participants, National Institutes of Health (NIH). Completion Certification Number: 1125415. Feb 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

Marshall JC: Fellow of the Canadian Academy of Health Sciences. Jun 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. R.G. Perrin	Associate Professor
Dr. S. Das	Assistant Professor	Dr. T.A. Schweizer	Assistant Professor
Dr. H. Ginsberg	Assistant Professor	Dr. J. Spears	Assistant Professor
Dr. R.L. Macdonald	Professor (Division Head)		

Publications

Alshafai N, Cusimano MD, Falenchuk O. Global differences in the present and future management of cerebral aneurysms. *World Neurosurgery*. 2013 Jan 28. Coauthor or Collaborator. 2013 Mar. PMID: 23369938.

Arasanz, C.P., Staines, W.R., & Schweizer, T.A. Isolating a cerebellar contribution to rapid visual attention using transcranial magnetic stimulation. *Frontiers in Behavioral Neuroscience*. 6. Senior Responsible Author. 2012.

Blessing, J., Saposnik, G., Nisenbaum, R., Lo, B., Schweizer, T.A., Thorpe, K., Macdonald, R.L. Racial/ethnic differences in inpatient mortality and utilization of institutional post-acute care following subarachnoid hemorrhage. *Journal of Neurosurgery*. Coauthor or Collaborator. 2013.

- Cruz JP, O'Kelly C, Kelly M, Wong JH, Aishaya W, Martin A, Spears J, Marotta TR.** Pipeline Embolization Device in Aneurysmal Subarachnoid Hemorrhage. *American Journal of Neuroradiology*. 2012 Oct 11. Coauthor or Collaborator. 2012 Dec 6. PMID: 23064594.
- Cruz J., Spears J., Marotta T.** Delayed ipsilateral parenchymal hemorrhage: A Complication related to the treatment of anterior circulation aneurysms with flow diversion. *American Journal of Neuroradiology*. Principal Author. 2012.
- Cusimano, MD.** Defining the Optimal Management for Patients with Large Vestibular Schwannomas. *Can J Neurol Sci*. 40.(2). Principal Author. 2013 May.
- Cusimano MD, Di Ieva A, Lee J, Anderson J.** Canula-assisted endoscopy in bi-portal transphenoidal cranial base surgery: technical note. *Acta Neurochir (Wien)*. 2013 March 15. Coauthor or Collaborator. 2013 Apr. PMID: 23494139.
- Cusimano MD, Kan P, Nassiri F, Anderson J, Goguen J, Vanek I, Smyth HS, Fenton R, Muller PJ, Kovacs K.** Outcomes of surgically treated giant pituitary tumours. *Can J Neurol Sci*. 2012 Jul;39(4) 446-57. Coauthor or Collaborator. 2012 Jul. PMID: 22728851.
- Cusimano MD, Holmes SA, Sawicki C, Topolovec-Vranic J.** Assessing Aggression Following Traumatic Brain Injury: A Systematic Review of Validated Aggression Scales. *J Head Trauma Rehabilitation*. 2013 Feb 12. Coauthor or Collaborator. 2013 Mar. PMID: 23407424.
- Cusimano MD, Nastis S, Zuccaro L.** Effectiveness of interventions to reduce aggression and injuries among ice hockey players: a systematic review. *CMAJ*. 2013 Jan 8;185(1):E57-69. doi:10.1503/cmaj.112017. Coauthor or Collaborator. 2013 Jan. PMID: 23209118.
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Teschke K, Brubacher Jr, Freidman SM, Cripton PA, Harris MA, Reynolds CCO, Shen H, Monro M, Hunte G, Chipman M, Cusimano MD, Smith Lea N, Babul S, Winters M. Personal and trip characteristics associated with safety equipment use by injured adult bicyclists: A cross-sectional study. BMC Public Health. 2012 Sept 11;12:765. PMID: 22966752.

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Topolovec-Vranic J, Ennis N, Colantonio A, Cusimano MD, Hwang SW, Kontos P, Ouchterlony D, Stergiopoulos V. Traumatic brain injury among people who are homeless: a systematic review. BMC Public Health. 2012 Dec 8;12:1059.

Zoerle T, Illodigwe D, Wan H, Lakovic K, Sabri M, Ai J, Macdonald RL. Pharmacologic prevention of cerebral vasospasm in experimental subarachnoid hemorrhage: systematic review and meta-analysis. J Cereb Blood Flow Metab. 2012 Sept;32(9)1645-58.

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Zoerle T, Macdonald RL. Animal models of subarachnoid hemorrhage and their translation to clinical subarachnoid hemorrhage. In: Lapchak PA, Zhang JH: Translational Stroke Research: From target Selection to Clinical Trials. Springer series in Translational Stroke Research, Springer, New York. 2012.

Invited Visits

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

Cusimano MD: Global News, Toronto, Ontario, Canada, 26 October 2012. Roads with streetcar tracks three times more dangerous for cyclists: study.

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: Fort Frances Times- The Canadian Press, Ontario, Canada, 5 December 2012. Rules barring aggressive checks cut hockey injuries like concussion Study 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: City News Toronto, Ontario, Canada, 24 December 2012. Brain Trauma.

Cusimano MD: Transportation Research Board 92nd Annual Conference, Washington, District of Columbia, United States, 13 January 2013. Co-author: Meghan Winters Bicyclists' Injuries and the Cycling Environment: The impact of route infrastructure.

Cusimano MD: The Winnipeg Free Press, Winnipeg, Manitoba, Canada, 21 January 2013. Hockey Rule Changes Could Cut Player Aggression, Injuries Research by Dr. Michael Cusimano.

Cusimano MD: CFAX1070 Victoria, British Columbia, Canada, 3 April 2013. Media Reporting of Brain Injury in Hockey.

Macdonald RL: Ontario Brain Innovation Council Pitch Session, Toronto, Ontario, Canada, 23 November 2012. Invited Speaker: Microparticle matrix to prevent delayed complications after spontaneous and traumatic brain hemorrhage- a platform delivery system.

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

Beta-amyloid measurement in the ocular lens as a presymptomatic diagnostic test of incipient Alzheimer disease using normal pressure hydrocephalus (iNPH) as a unique test ground. Tang-Wai D; Lang A, Black SE, Greenberg B, Cusimano M, Munoz D, Goldstein L, Margolin E, Caldwell C, Valliant J, Schweizer TA. W. Garfield Weston Foundation. (\$99,360 2012 - 2013).

CIHR Team Grant in Traumatic Brain Injury and Violence. Cusimano M, Mann R, Tator C, et al. Canadian Institutes of Health Research (CIHR). (\$1,983,131 2010 - 2015).

Driving after stroke. Schweizer T. Heart and Stroke Foundation of Ontario, Centre for Stroke Recovery. (\$25,000 2011 - 2013).

Effects of perioperative low-dose pregabalin on post-craniotomy pain: A two-centre randomized controlled trial. Rigamonti A, Cusimano Michael, Macdonald L, Peng P, Lashmi V, Hanlon J. Canadian Anesthesiologists' Society. (\$30,000 2012 - 2013).

Endothelial nitric oxide synthase after subarachnoid hemorrhage. Macdonald RL. Heart and Stroke Foundation of Canada (HSFC). (\$174,718 2011 - 2013).

fMRI neurofeedback applied to motor imagery in stroke. Graham S, Black SE, Boe S, Saposnik G, Staines R, Schweizer TA. Heart and Stroke Foundation of Canada (HSFC). (\$278,214 2012 - 2013).

Improved Functional Magnetic Resonance Imaging for Pre-Surgical Planning of Brain Tumours. Graham S, Bharatha A, Cusimano M, Das S, Schweizer TA. Canadian Cancer Society (\$185,055 2013 - 2014)

Improving Performance in Drivers with Mild Cognitive Impairment: An RCT of Cognitive Training. Naglie G, Bedard M, Binns M, Black S, Dawson D, Fischer C, Freedman M, Herrmann N, Korner-Bitensky N, Levine B, Schweizer TA, Tang-Wai D. Canadian Institutes of Health Research (CIHR). (\$562,766 2012 - 2013).

iPad tablet technology for HOME Rehabilitation in patients after stroke. Saposnik G, Schweizer T, Gladstone D. Centre for Stroke Recovery. (\$49,608 2012 - 2014).

Molecular mechanisms of memory loss following subarachnoid hemorrhage. Macdonald L, Jinglu A. Brain Aneurysm Foundation (The). (\$25,000 2011 - 2012).

Neuroimaging Profiles of Neuropsychiatric Subgroups in Mild Cognitive Impairment and Early Alzheimer's Disease. Fischer C, Ismail Z, Schweizer TA, Chow T, Lix L, Shelton P. Canadian Institutes of Health Research (CIHR). (\$50,000 2013 - 2014).

Planning of an innovative technology-based approach to the treatment of depression following traumatic brain injury. Topolovec-Vranic J, Colantonio A, Cusimano M, Masanic C, Ouchterlony M, Schweizer TA. Canadian Institutes of Health Research (CIHR). (\$24,702 2012 - 2013).

Strategic Team Grant in Applied Injury Research: Traumatic Brain Injury & Violence: Reducing the risks, improving the outcomes. Ackery A, Asbridge M, Bhalerao S, Clarke D, Colantonio A, Comper P, Cukier W, Cullen J, Delay D, Donnelly P, Graham S, Harris J, Hoch J, Hoshizaki T, Hutchison M, Hwang S, Kontos P, Man R, Morton T, Rinner C, Roy E, Schweizer T, Shlonsky A, Snider C, Tator C, Tepperman L, Topolovec-Vranic J, Voaklander D, Wolfe D. Canadian Institutes of Health Research (CIHR). (\$1,750,000 2010 - 2016).

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

Subarachnoid nimodipine treatment for vasospasm. Macdonald RL. New Jersey Commission on Science and Technology (USA). (\$500,000 2009 - 2012).

Tablet Technology for Functional Magnetic Resonance Imaging of Brain Activity: Improved Neurosurgical Planning of Brain Tumours. Graham S, Schweizer T. MaRS Innovation. (\$175,000 2011 - 2013).

Tablet Technology for Assessing Dementia. Canadian Institutes of Health Research (CIHR). Graham S, Schweizer TA, Strother S. (\$116,402 2011 - 2012).

Systemic reviews of the evidence that tests for chronic cerebrospinal venous insufficiency (CCSVI) are valid and reproducible, that CCSVI is associated with multiple sclerosis, and of the benefits and harms of endovascular therapy for multiple sclerosis. Laupacis A, Aviv R, Burton J, Dueck A, Feasby T, Perrier L, Spears J, Straus Sharon, Thorpe Kevin. Canadian Institutes of Health Research (CIHR). (\$99300 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).

Trauma System Development in Canada: Overcoming the challenges of geography through an evaluation of structure and process. Nathens A, Gagliardi A, Pong R, Rubenfeld G, Schuurman N, Hameed S, Lawless B, Morrison L, Pandya A, Peters P, Schwartz B, Snider C, Tallon J, Cusimano M. Canadian Institutes of Health Research (CIHR). (\$1,990,000 2010 - 2015).

Validation of non-invasive rapid eye movements measurement as a screening tool for mild traumatic brain injury. Cusimano M, Schweizer TA, Bharatha A, Graham S, Gupta N, Ing E, Mullen S, Russell K, Topolovec-Vranic J, Yucel Y. Canadian Institutes of Health Research (CIHR). (\$250,140 2012 - 2015).

White matter injury and cognitive outcome after aneurysmal subarachnoid hemorrhage. (Principal Investigator). Heart and Stroke Foundation of Canada (HSFC). Principal Investigator(s): Schweizer, Tom. Collaborators: Macdonald, R.L., Graham, S., Roy, E. & Tymianski, M. (\$142642.00 CAD, Jul 2012 - Jun 2014). [Grants]

Honours Received

Cusimano MD: Arthur Award, St. Michael's Hospital. Most Media Hits. Jul 2012 - Jun 2013.

Cusimano MD: Blueprint for Quality Care Award, St. Michael's Hospital, Breakfast of Our Champions. Research, Education and Patient Care. Jul 2012 - Jun 2013.

Macdonald RL: Reviewer Excellence, Neurosurgery. Jul 2012 - Jun 2013.

Schweizer TA: Early Researcher Award, Ontario Ministry of Research and Innovation. Jun 2011 - Jun 2016.

Schweizer TA: New Investigator Award, Heart and Stroke Foundation of Canada, Canada. Jul 2011 - Jul 2016.

Spears J: ACE Award, St. Michael's Hospital, Ontario, Canada. Multiple Sclerosis (MS) Experimental Surgery Follow-up Care Guidelines Initiative. Jul 2012 - Jun 2013.

Division of Orthopaedics

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

Publications

Ahmadi S, Shah S, Wunder JS, Schemitsch EH, Ferguson PC, Zdero R. The biomechanics of three different fracture fixation implants for distal femur repair in the presence of a tumor-like defect. Proc Inst Mech Eng. 2013 Jan; 227(1): 78-86

Alradwan H, Philippon MJ, Farrokhyar F, Chu R, Whelan D, Bhandari M and Ayeni OR. Return to preinjury activity levels after surgical management of femoroacetabular impingement in athletes. Arthroscopy. 2012 Oct.;28(10):1567-76.

Atesok K, Li R, Schemitsch EH. Endothelial progenitor cells: a novel cell-based therapy in orthopaedic surgery. J Am Acad Orthop Surg. 2012 Oct; 20(10): 672-4.

Atesok K, Matsumoto T, Karlsson J, Asahara T, Atala A, Doral MN, Verdonk R, Li R, Schemitsch E. An emerging cell-based strategy in orthopaedics: endothelial progenitor cells. Knee Surg Sports Traumatol Arthrosc. 2012 Jul; (7):1366-77.

- Beaton D, Sujic R, McIlroy Beaton K, Sale J, Elliot-Gibson V, Bogoch ER.** Patient perceptions of the path to osteoporosis care following a fragility fracture. *Qualitative Health Research*. 2012 Dec; 22(12): pp 1647-1658.
- Beaton DE, Dyer S, Jiang D, Sujic R, Slater M, Sale JE, Bogoch ER, The Osteoporosis Fracture Clinic Screening Program Evaluation Team.** Factors influencing the pharmacological management of osteoporosis after fragility fracture: results from the Ontario Osteoporosis Strategy's fracture clinic screening program. *Osteoporosis International*. E-published ahead of print 21-Jun-2013.
- Bhandari M, Tornetta P, Schemitsch EH.** Randomized trials in orthopaedic surgery: one step closer. *J Bone Joint Surg Am*. 2012 Jul;18;94 Suppl 1:1.
- Bogoch ER, Elliot-Gibson V, Wang R, Josse R.** Secondary causes of osteoporosis in fracture patients. *Journal of Orthopaedic Trauma*. 2012 Sep; 26(9): pp e145-e152.
- Chahal J, Gross AE, Gross C, Mall N, Dwyer T, Chahal A, Whelan DB and Cole BJ.** Outcomes of osteochondral allograft transplantation in the knee. *Arthroscopy*. 2013 Mar; 29(3):575-88.
- Chahal J, Van Thiel GS, Mall N, Heard W, Bach BR, Cole BJ, Nicholson GP, Verma NN, Whelan DB, Romeo AA.** The role of platelet-rich plasma in arthroscopic rotator cuff repair: a systematic review with quantitative synthesis. *Arthroscopy*. 2012 Nov; 28(11):1718-27.
- Crookshank MC, Edwards MR, Sellan M, Whyne CM, Schemitsch EH.** Can fluoroscopy-based computer navigation improve entry point selection for intramedullary nailing of femur fractures? PMID. 5(Epub). 2013.
- Daniels TD, Solchaga LA, Roach S, Beasley W, Snel LB.** Effect of implantation of Augment Bone Graft(R) on serum concentrations of platelet derived growth factors: A pharmacokinetic study. *Clinical Drug Investigation*. 2013 Feb;33(2):143-9.
- Daniels TR (SPRINT Investigators), Bhandari M, Tornetta P 3rd, Rampersad SA, Sprague S, Heels-Ansdell D, Sanders DW, Schemitch EH, Swiontkowski M, Walter S.** (Sample) Size matters! An examination of sample size from the SPRINT trial study to prospectively evaluate reamed intramedullary nails in patients with tibial fractures. *J Orthop Trauma*. 2013 Apr; 27(4):183-8.
- Daniels TR, Amin A, Boyd G, Chin T, Glazebrook MA, Sproule JA, Younger A.** Clinical and Radiographic Outcomes of the Mobility Total Ankle Arthroplasty System: Early Results from a Prospective Multicenter Outcome Study. *Foot and Ankle International*. 2013 Apr; 34(4):491-7.
- Daniels TR, Amin A, Mahoney J.** The anteromedial approach for performing ankle arthroplasty and arthrodesis: Technique tip. *Foot & Ankle International*. 2012 Nov;33(11):1011-4.
- Daniels TR, Boyd G, Copithorne P, Francis P, Glazebrook M, Hickey M, Lalonde KA.** Proximal opening wedge osteotomy with wedge plate fixation versus proximal Chevron osteotomy for the treatment of hallux valgus: A randomized prospective study. *Journal of Bone and Joint Surgery (Am)*. 2013 May 6.
- Daniels TR, Klejman S, Pinsker E, Singer, S.** Ankle arthroplasty and ankle arthrodesis - Gait analysis compared to controls. *Journal of Bone and Joint Surgery (American)*. 2013 May 17.
- Daniels TR, Lau JTC.** Planning for your best results: From your foot and ankle surgery - Procedure-specific information sheets. 1) Bunions; 2) Spurs/Cheilectomy; 3) Claw toes/Hammer toes; 4) Neuromas; 5) Ankle fracture fixation; 6) Ankle ligament reconstruction; 7) Ankle scopes; 8) Ankle/Hindfoot/Midfoot fusions; 9) Achilles tendon repair; 10) Posterior tibial tendon reconstruction; 11) First (Big) toe fusions; 12) Ankle replacement. 2012 Sep; COA/COF Web site.
- Daniels TR, Mayich DJ, Mayich MS.** Effective detection and management of low-velocity Lisfranc injuries in the emergency setting: Principles for a subtle and commonly missed entity. *Canadian Family Physician*. 2012 Nov 4; 58: 1199-204.
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Invited Visits

Ahn H: Canadian Orthopaedic Residents Trauma Course, Toronto, Ontario, Canada, 24 November 2012. Invited Speaker: 1/ Management of Cervical Trauma. 2/ Management of Thoracolumbar Spine Trauma.

Ahn H: Louisiana State University (LSU) Health Sciences Center, New Orleans, Louisiana, United States, 14 December 2012. Invited Speaker: New Advances in Navigation for MIS Spine Surgery.

Ahn H: Canadian Orthopaedic Residents Recon Course, Toronto, Ontario, Canada, 18 January 2013. Chair: 1/ Spine Reconstruction Section. 2/ Management of Adverse Events in Spine Surgery.

Ahn H: Canadian Spine Society, Mount Tremblant, Ontario, Canada, 2 March 2013. Presenter: What will traumatic spinal cord injury care look like in 20 years in Canada? Resource planning by forecasting.

Bogoch ER: Fragility Fracture Network Global Congress, Berlin, Germany, 6 September 2012. Invited Speaker: Fracture Liaison Services: The Canadian Experience.

Bogoch ER: American Society for Bone and Mineral Research Annual Meeting, Minneapolis, Minnesota, United States, 12 October 2012. The Ontario Osteoporosis Program. Speaker: Secondary Fracture Prevention Task Force Report - An Update.

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?

Bogoch ER: Fraser Health, Surrey, British Columbia, Canada, 4 March 2013. Invited Speaker: Establishing a Fracture Prevention Program: Lessons from the Ontario Strategy.

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 (rhPDGF-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-CNWL], United Kingdom, 14-15 November 2012. Invited Lecturer: 1/ Ankle Arthritis: TAR (Total ankle replacement) in deformity. 2/ Alternatives to TAR.

Daniels T: AAOS/AOFAS, Orlando, Florida, United States, 29 November - 1 December 2012. 1/ Moderator: IOFAS Symposium Sports - The retirement fund: My child WILL go pro! 2/ Invited Speaker: IOFAS Symposium Tarsal coalitions: Cleaning up the flatfoot. 3/ Invited Speaker: IOFAS Symposium Acute Achilles tendon rupture: Nonoperative protocols and results. 4/ Invited Speaker: IOFAS Symposium The ping pong effect: Triple for flatfoot leads to varus deformity! 5/ Invited Speaker: IOFAS Symposium

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: AFOAS, Edina, Minnesota, United States, 15 January 2013. Invited Speaker: COFAS multicentre study comparing total ankle arthroplasty and ankle arthrodesis: midterm results Webinar: "Best of the AOFAS 2012".

Daniels T: Canadian Orthopaedic Resident Review in Reconstructive Surgery 2013, Toronto, Ontario, Canada, 17 January 2013. Invited Speaker: 1/ Session Leader for Shoulder/Elbow, Hand/Wrist, Foot/Ankle Cases, including "Top 10 things you need to know about Ankle Reconstruction". 2/ Talar neck treatment - conservative. 3/ Delayed Achilles Tendon rupture. 4/ Charcot arthropathy. 5/ Tibial deformity with hindfoot OA. 6/ Failed bunion.

Daniels T: COFAS, Whistler, British Columbia, Canada, 1-2 February 2013. Invited Speaker: 1/ Planovalgus Feet - Hindfoot and midfoot realignment: Surgical management of stage 3 disease - My preferred technique. 2/ Acute Achilles tendon ruptures should be treated non-operatively - The great debate: Negative Opinion. 3/ Current concepts in end-stage ankle arthritis: Fusion vs Replacement - COFAS 5-year Outcomes Study. 4/ Moderator: Chronic Achilles Problems.

Daniels T: AAOS, Chicago, Illinois, United States, 21 March 2013. Moderator: Emerging methods for treatment of ankle arthritis Comparing functional and biomechanical outcomes of TAR and ankle fusion.

Daniels T: AAOS, ICJR Video, Chicago, Illinois, United States, 29 March 2013. Moderator: End-Stage Ankle Arthritis Webinar Surgical Conference.

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: Stryker, Montreal, Quebec, Canada, 31 May - 1 June 2013. Invited Speaker: Talus and Midfoot Injuries: 1/ Talus fractures including neck, body, peripheral and extruded. 2/ Osteochondral lesions of the talus. 3/ Midfoot fractures and dislocations, malunions, nonunions – salvage. 4/ Reconstruction: Pes plano valgus (tendon transfer, osteotomies, fusions). 5/ Cavo varus. 6/ Charcot. 7/ Biologics. 8/ Current Topics in Forefoot Care: Hallux valgus treatment (osteotomies, Lapidus and congruent). 9/ Complications of hallux valgus treatment. 10/ Hallux rigidus. 11/ Lesser toe deformities. 12/ Metatarsalgia. 13/ Rheumatoid forefoot. 14/ Foot and Ankle Trauma: Ankle fractures. 15/ Syndesmotic injuries- Pilon. 16/ Malunions and nonunions – Salvage.

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.

Hall J: Zimmer Institute, Parsippany, New Jersey, United States, 19 October 2012. Speaker: Trabecular Metal Reverse Shoulder System Lecture.

Hall J: Canada Medical Education, Toronto, Ontario, Canada, 22 November 2012. Speaker: Canadian Orthopaedic Resident Review Course in Trauma Wrist Fracture Dislocations.

Hall J: Canada Medical Education, Toronto, Ontario, Canada, 17 January 2013. Speaker and Session Leader: Canadian Orthopaedic Resident Review Course in Reconstructive Surgery Top 10 Things You Need to Know, Elbow Sports Medicine.

McKee M: 67th Annual Meeting of American Society for Surgery of the Hand, Chicago, Illinois, United States, 7 September 2012. Invited Lecturer: Fractures of the Clavicle in 2012: Who, why, how?

McKee M: OTA Annual Meeting, Minneapolis, Minnesota, United States, 3 October 2012. Speaker: Clavicle plating: Should it be superior or anterior? Biomechanically-Directed Fixation: Hot Topics.

McKee M: ASES Closed Meeting, Sea Island, Georgia, United States, 14 October 2012. Presenter: Operative versus non-operative treatment of acute dislocations of the acromio-clavicular joint: Results of a multi-centre randomized, prospective clinical trial.

McKee M: Great Expectations North, Trauma program, Canada, 18 October 2012. Invited Speaker: 1/ Clavicle and AC Joint: Is fixation the new gold standard? 2/ Elbow trauma: How I stay out of trouble.

McKee M: Robert F. Martin Lectureship, McMaster Orthopaedics Annual Academic Day, Hamilton, Ontario, Canada, 30 November 2012. Invited Speaker: Can evidence make a difference?

McKee M: AO Trauma Masters Course, Upper Extremity, Davos, Switzerland, 9 December 2012. Invited Speaker: 1/ Instability of the elbow. 2/ Galeazzi injuries. 3/ Discussion group (multiple).

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

McKee M: OTA/AAOS, United States, 29 January 2013. Invited Speaker: Proximal Humerus Fractures: Decision making and methods.

McKee M: 2013 Howard Rosen Memorial Lecture, Hospital for Joint Diseases NY University, New York, New York, United States, 7 February 2013. Invited Lecturer: Clavicle Fractures.

McKee M: AO North America, Puerto Rico, United States, 14 February 2013. Caribbean Trauma Update. Invited Lecturer: 1/ Shoulder Girdle Fractures. 2/ Distal Humerus Columnar Fractures. 3/ Isolated Radial Head and Olecranon Fractures. 4/ Case Discussions: Complex Elbow.

McKee M: American Academy of Orthopaedic Surgeons, Chicago, Illinois, United States, 19 March 2013. Speaker: Internal fixation for distal humeral nonunions.

McKee M: 2013 Annual Meeting of the Swedish Orthopaedic Association, Sweden, 16-17 May 2013. Invited Speaker: 1/ Injuries to the shoulder girdle. 2/ Injuries to the elbow.

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.

McKee M: American Orthopaedic Association, Denver, Colorado, United States, 14 June 2013. Presenter: 1/ Prognostic factors for reoperation following plate fixation of fractures of the midshaft clavicle. 2/ Operative versus nonoperative treatment of acute dislocations of the acromio-clavicular joint: Results of a multi-centre randomized, prospective clinical trial.

McKee M: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20 June 2013. Moderator: Upper extremity common fractures, (not so) common problems.

Schemitsch E: New Technology for Hip and Knee Disorders. Baltimore, Maryland, United States, August 2012. 1/ Moderator. 2/ Speaker: Is there still a role for hip resurfacing.

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: Birmingham Hip Resurfacing Masters Course, Memphis, Tennessee, United States, December 2012. 1/ Moderator. 2/ Addressing the Lancet Article 2012. 3/ The Canadian experience with BHR: Pseudotumor. 4/ MHRA guidelines on patient monitoring. 5/ Case presentations.

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

Schemitsch E: Impact Forum on Intimate Partner Violence, Hamilton, Ontario, Canada, December 2012. Speaker: IPV and the Injury Clinic Environment.

Schemitsch E: American Academy of Orthopaedic Surgeons (Specialty Day), Chicago, Illinois, United States, March 2013. Speaker: 1/ Humeral shaft fractures: The evidence of plating. 2/ Prognostic factors for reoperation following plate fixation of fractures of the midshaft clavicle.

Schemitsch E: Canadian Domestic Violence Conference! Moving Orthopaedic Surgeons to Action!, Toronto, Ontario, Canada, March 2013. Speaker: Building bridges in IPV awareness through collaboration.

Whelan D: ISAKOS, Toronto, Ontario, Canada, May 2013. Facilitator: 1/ ACL Reconstruction. 2/ Surgical Training. Lecturer: 1/ Avoiding Bias in Clinical Research. 2/ Evidence Based Approach to Multi-Ligament Knee Injuries: Basic Concepts of the MLIK/Current Best Evidence. 3/ Revision ACL Symposium: Revision ACL Surgery from the Canadian Experience.

Whelan D: Fowler Fellows, London, Ontario, Canada, 10 May 2013. Speaker: 50 Years Later.

Whelan D: Hamilton FAI Lab, Hamilton, Ontario, Canada, 11 May 2013. Invited Speaker: Imaging Controversies in FAI Surgery.

Whelan D: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, June 2013. Lecturer: 1/ Surgical Tips for Repair and Reconstruction of the MCL. 2/ Surgery for the First Time Shoulder Dislocation. 3/ Hip Arthroscopy in Canada: Current State of the Art. 4/ Introduction to Hip Arthroscopy.

Whelan D: Personal Injury Alliance: Practical Strategies Conference, Toronto, Ontario, Canada, 13 June 2013. Invited Speaker: Evolving Approaches to the Management of Post Traumatic Arthritis.

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 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of SUN13837 Injection in Adult Subjects with Acute Spinal Cord Injury. Ahn Henry, Ginsberg H. Asubio Pharmaceuticals. (\$250,000 2012 - 2014).

A Multicentre, Randomized Trial of Conservative Treatment Versus Operative Plate Fixation for Acute, Displaced Fractures of the Distal Clavicle. Hall JA. Canadian Orthopaedic Trauma Society. Orthopaedic Trauma Association (The) (OTA). (\$80,000 2010 - 2012).

A Multicentre, Randomized Trial of Simple Decompression vs. Anterior Transposition of the Ulnar Nerve for Acute, Displaced Fractures of the Distal Clavicle. Orthopaedic Trauma Association (The) (OTA). Schemitsch EH, Hall JA, McKee MD. Canadian Orthopaedic Trauma Society. (\$78,630 2010 - 2013).

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).

A Randomized Evaluation of Emergent Immobilization in External Rotation in the Management of Acute Interior Dislocations of the Shoulder (EERAADS). Whelan D: American Orthopaedic Society for Sports Medicine. (\$20,000 2010 - 2012).

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

A randomized trial of fluid lavage in open wounds. Schemitsch E, FLOW Investigators. Canadian Institutes of Health Research (CIHR). (\$1,748,487 2009 - 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. (\$37,500 2013 - 2014).

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

Bone marrow-derived stem cell-based gene therapy to accelerate fracture healing. Ahn H, Aubin J, Li R, Nauth A. Canadian Institutes of Health Research (CIHR). (\$293,268 2011 - 2014).

Early Weightbearing and Mobilization Versus Non-Weightbearing and Immobilization After ORIF of Unstable Ankle Fractures: A Randomized Controlled Trial. Kreder H, Jenkinson R, Dehghan N, McKee MD, Hall J. Canadian Orthopaedic Trauma Society (\$6,000 2013).

- Evaluation of a novel scaffold treatment with VEGF for fracture healing.** Schemitsch E, Li R. Orthopaedic Trauma Association. (\$25,000 2011 - 2013).
- Expansion of a chiropody rapid response service.** Ray J, Schemitsch E. Ministry of Health and Long Term Care. (\$56,184 2011 - 2012).
- Instrumental activities of daily living and social roles following hip and knee replacement: Understanding why people's engagement doesn't change.** Davis A, David A, Webster F, Jaglal S, Jenkinson R, Perruccio A, Waddell JP. Arthritis Society (The). (\$360,000 2011 - 2014).
- Isolated Locked Compression Plating Versus Cable Plating and Strut Allograft with Cerclage Wiring for Vancouver B1 Periprosthetic Femoral Fractures: A Randomized Controlled Trial.** Schemitsch E, Nauth A, Hall JA, McKee MD. Orthopaedic Trauma Association (The) (OTA). (\$79,349 2013 - 2014).
- Latissimus Dorsi Tendon Transfer: A Cadaveric Study.** Henry P, McKee MD. University of Toronto. (\$12,500 2012 - 2013).
- Locked compression plating versus cable plating combined with strut allografts for Vancouver B1 periprosthetic femoral fractures: A randomized controlled trial.** Nauth A, Schemitsch EH. Orthopaedic Trauma Association (The) (OTA). (\$79,400 2013 - 2015).
- Management of Proximal Humerus Fractures: A Scoping Review.** Bhandari M, McKee MD, Crompton P, Fitzgerald C, Guy P, Jain R, MacIntyre N, Richards D, Slobogean G. Canadian Institutes of Health Research (CIHR). (\$49,772 2012 - 2013).
- MOHLTC Evaluation of an Osteoporosis Screening Program for Fragility Fracture Patients - Year 6.** Beaton DE, Bogoch ER, Jaglal S, Hawker G, Mamdani M, Gignac M, Cadarette S, Laupacios A, Zwarenstein M, Straus S, Sale J, Jiang D. Ontario Ministry of Health and Long-Term Care. (\$350,000 2012 - 2013).
- Operative versus non-operative treatment of acute unstable chest wall injuries: A multi-centered randomized controlled trial.** McKee M, Schemitsch EH. PSI Foundation. (\$126,000 2013 - 2014).
- Operative versus non-operative treatment of acute unstable chest wall injuries: a multi centered randomized controlled trial.** McKee MD, Dehghan N, Vicente M, Schemitsch EH. PSI Foundation. (\$126,000 2013 - 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).
- Operative vs. Non-Operative Treatment of Acute Unstable Chest Wall Injuries - A Multicentered RCT.** Canad JA, McKee MD, Schemitsch EH, Hall I. Orthopaedic Trauma Society, AO Foundation (\$119,137 2012 - 2014).
- Optimization of the delivery of fracture secondary prevention program.** Chilcott W, Bogoch ER. (\$30,000 2012).
- ORIF vs non-operative treatment for unstable chest wall injuries.** A randomized multi centre clinical trial. McKee MD, Dehghan N, Nauth A, Schemitsch EH. AO Foundation. (\$120,000 2012 - 2014).
- Osteoporosis Exemplary Care Program.** McCrea H, Bogoch ER. Peacock Foundation. (\$9,000 2012).
- Partnership for applied research in fracture prevention programs for the elderly.** Gaboury I, Beaulieu MC, Bogoch E, Boire G, Cabana F, Corriveau H, Dagenais P. Canadian Institutes of Health Research (CIHR). (\$499,499 2012 - 2015).
- Partnership for applied research in fracture prevention programs for the elderly.** Gaboury I, Beaulieu MC, Bogoch E, Boire G, Cabana F, Corriveau H, Dagenais P. Canadian Institutes of Health Research (CIHR). (\$10,000 2011 - 2013).
- Patients' perspectives on total ankle arthroplasty: A qualitative study exploring pre- and post-operative experiences.** Daniels TR, Beaton D, Pinsker E, Sale J. Physicians Services Incorporated Foundation (The) (PSI). (\$37,500 2012 - 2013).
- Reamer Irrigator Aspirator (RIA) versus Autogenous Iliac Crest Bone Graft for the Treatment of Non-unions: A Randomized, Multicentre, Clinical Trial.** Schemitsch EH, Nauth A, Hall JA, McKee MD, Canadian Orthopaedic Trauma Society. Orthopaedic Trauma Association (The) (OTA). (\$79,500 2011 - 2014).
- Reamer Irrigator Aspirator (RIA) versus Autogenous Iliac Crest Bone Graft (ACIBG) for the Treatment of Non-unions: A Multicentre Randomized Trial.** Nauth A, Schemitsch EH, Hall JA, McKee MD. Canadian Orthopaedic Trauma Society. AO Foundation. (\$130,000 2012 - 2014).

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).

Reamer irrigator aspirator (RIA) versus autogenous iliac crest bone graft for the treatment of nonunions: A randomized, multi centre, clinical trial. Schemitsch EH, Nauth A, Hall J, McKee MD. AO Foundation. (\$120,000 2012 - 2014).

Research study of fracture secondary prevention. Martin C, Bogoch ER, (\$10,000 2012 - 2013).

Rick Hansen Spinal Cord Injury Registry Grant. Ahn H, Ginsberg H. Rick Hansen Institute, Rick Hansen Spinal Cord Injury (\$120,000 2011 - 2014).

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).

What are fracture patients' understanding of risk of future fracture? Sale J, Beaton D, Bogoch E, Gignac M, Hawker G. Canadian Institutes of Health Research (CIHR). (\$150,738 2012 - 2014).

Honours Received

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

Hall J: Best Practices in Employer Support: Health and Emergency Services, Canadian Forces Liason Council. Jul 2012 - Jun 2013.

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

McKee M: Provincial award for employment support of reservists, Canadian Forces Liason Council, Ontario, Canada. Jul 2012 - Jun 2013.

Schemitsch E, Nauth A: Canadian Orthopaedic Association Founders Medal (Best Paper), Canadian Orthopaedic Research Society. Jul 2012 - Jun 2013.

Schemitsch E: President, Canadian Arthroplasty Society. Jul 2012 - Jun 2013.

Division of Plastic and Reconstructive Surgery

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

Research and Investigations

Exploring Factors that Influence Breast Reconstruction Use and Outcomes: Phase I: How do Physician Attributes Influence Reconstruction Decision Making. Musgrave MA, Gagliardi A, Baxter N. Canadian Breast Cancer Foundation (CBCF). (\$188,180 2011 - 2013).

Utilization and Timing of Breast Reconstruction in the Treatment of Breast Cancer in Ontario: A Population-Based Study. Zhong T, Baxter N, Hofer S, Urbach D, Sutradhar R. Canadian Breast Cancer Foundation (CBCF). (\$257,474 2011 - 2014).

Wounds and Surgical Site Infections: Development of a Web-based tool for Patient Education. Mahoney J L. Ontario Ministry of Health and Long-Term Care (\$4,871 2012 - 2013).

Division of Urology

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

Publications

Foell K, Finelli A, Yasufuku K, Bernardini M, Waddell TK, Pace KT, Honey RJ, Lee JY. Robotic surgery basic skills training - evaluation of a pilot multidisciplinary simulation-based curriculum. *Canadian Urological Association Journal*. 2013 Jun 29.

Foell, K, Furse A, Honey RJ, Pace KT, Lee JY. Multidisciplinary validation study of the da Vinci Skills Simulator: Education tool and assessment device. *Journal of Robotic Surgery*. 2013 Apr 21.

Foell K, Honey RJ. Percutaneous Nephrolithotomy in the Prone-Flexed and Lateral-Flexed Positions. In: *Percutaneous Renal Surgery* (Manoj Monga, ed.). Wiley Blackwell. 2013.

Foell K, Honey RJ, Pace KT. Stone baskets and forceps. In: *Ureteroscopy: Indications, Instrumentation and Technique*. Current Clinical Urology (Manoj Monga, ed.). 2013.

Foell K, Lee JY. Robotic-assisted Surgical Management of Retrocaval Ureter and Renal Stone. *Journal of Endourology, Part B Videourology*. 2013 May.

Honey RJ, Ghiculete D, Ray AA, Pace KT. A randomized, double-blinded, placebo-controlled trial of intercostal nerve block after percutaneous nephrolithotomy. *Journal of Endourology*. 2013 Apr; 27(4):415-19.

Honey RJ, Ordon M, Ghiculete D, Wiesenthal J, Kodama R, Pace KT. A prospective study examining the incidence of bacteriuria and urinary tract infection after shock wave lithotripsy with targeted antibiotic prophylaxis. *The Journal of Urology*. 2013 Jun; 189(6):2112-17.

Lee JY, McDougall EM. Surgical Simulation Chapter #1 - Surgical Simulation: An Overview. 2012 Dec.

Lee JY, Mucksavage P, Huynh VB, Kerbl DC, McDougall EM. Surgical Skills Acquisition Among Left-Handed Trainees – True Inferiority or Unfair Assessment: A Preliminary Study. *Journal of Surgical Education*. *J Surg Ed* 2013 Mar; 70(2):237-42.

Lee JY, Mucksavage P. Robotic Radical Nephrectomy with Vena Caval Thrombectomy: Novice Robotic Surgeon Experience. *Korean J Urol* 2012 Dec;53(12):879-882.

Mucksavage P, Lee JY, Kerbl DC, Clayman RV, McDougall EM. Preoperative Warming Up Exercises Improves Laparoscopic Operative Times in an Experienced Laparoscopic Surgeon. *J Endourol* 2012 Jul;26(7):765-768.

Ordon M, Ghiculete D, Pace KT, Honey RJD. Does the radiologic technologist or the fluoroscopy time affect treatment success with shockwave lithotripsy? *Journal of Endourology*. 2012 Aug; 26(8): 1065-9.

Masui O, White NM, DeSouza LV, Krakovska O, Matta A, Metias S, Khalil B, Romaschin AD, Honey RJ, Stewart R, Pace K, Bjarnason GA, Siu KW, Yousef GM. Quantitative proteomic analysis in metastatic renal cell carcinoma reveals a unique set of proteins with potential prognostic significance. *Mol Cell Proteinomics*. 2013 Jan;12(1):132-44.

Menhadji A, Abdelshehid C, Osann K, Alipanah R, Lusch A, Graversen J, Lee J, Quach S, Huynh V, Sidhom D, Gerbatsch I, Landman J, McDougall E. Tracking and Assessment of Technical Skills Acquisition Among Urology Residents for Open, Laparoscopic, and Robotic Skills Over 4 years: Is There a Trend? *J Endourol* 2013 Jun; 27(6): 783-789.

Ordon M, Schuler TD, Ghiculete D, Perks AE, Pace KT, Honey RJD. Stones Lodge at Three Sites of Anatomic Narrowing in the Ureter: Clinical Fact or Fiction? *Journal of Endourology*. March 2013; 27(3):270-276.

Perlis N, Connelly M, Honey JRD, Pace KT, Stewart R. Evaluating potential live-renal donors: Causes for rejection, deferral and planned procedure type, a single-centre experience. *Can Urol Assoc J*. 2013 Jan-Feb;7(1-2):41-5.

Ray AA, Honey RJ. Prone, Lateral, and Flexed: Patient Positioning for Percutaneous Nephrolithotomy. In: Smith's Textbook of Endourology, Third Edition. (Arthur D. Smith, Gopal H. Badlani, Glen M. Preminger, Louis R. Kavoussi) Blackwell Publishing Ltd. 2012.

Sohn W, Clayman RV, Lee JY, Cohen A, Mucksavage P. Low-dose and Standard Computed Tomography Scans Yield Equivalent Stone Measurements. Urology. 2013 Jan;81:231-235.

Yan H, Treacy A, Yousef GM, Stewart RJ. Giant Fibroepithelial Polyp of the Glans Penis Not Associated with Condom-Catheter Use: A Case Report and Literature review. Canadian Urological Association Journal. 2013 Apr.

Invited Visits

Honey RJD: Annual American Urological Association, San Diego, California, United States, 4-6 May 2013. 1/ Presenter: The Management of Staghorn Stone Patient PCNL vs. Laparoscopic Anatomic Nephrolithotomy. Video Debate. Moderator. 2/ Facilitator: Flexible Ureteroscopy for Renal Stones. 3/ Course Director; Hands-on Course.

Lee, Jason: World Congress of Endourology and SWL Annual Meeting, Turkey, September 2012. Invited Lecturer: Percutaneous Nephrolithotomy: Tips and Tricks.

Lee J: American Urology Association, Florida, United States, January 2013. 1/ Invited Speaker: Advanced Robotic Urologic Oncologic Course. 2/ Co-Director: Surgical Robot Basic Skills Training Course.

Lee J: American Urological Association Annual Meeting, California, United States, 4-6 May 2013. 1/ Course Proctor: Flexible Ureteroscopy for Renal Stones: Hands-On Lab. 2/ Fundamentals of Robotic Surgery: Hands-On Lab.

Lee J: Canadian Urological Association Advanced Laparoscopic and Robotic Urology Skills Course, Ontario, Canada, June 2013. Invited Lecturer: Factors Affecting OR Safety and Surgical Performance in Urology: A Preliminary Evaluation.

Research and Investigation

Implementation of Multi-disciplinary Simulation-based Team Training: Improving Management of Surgical Crisis Situations. Lee J, Honey RJD, Stewart RJ, Hayter. St. Michael's Hospital Alternative Funding Plan Innovation Fund. (\$9,592 2013 - 2014).

Trends over time and regional variation in the management of kidney stone disease in the province of Ontario. Pace KT, Ordon M, Honey RJD. Ontario AFP (\$15,864 2011 - 2013).

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

Pace K: Best reviewer, Journal of Endourology. 2012

Pace K: Most cited paper of 2012, Journal of Endourology. Jul 2012.

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

Patient knowledge of peripheral vascular disease in an outpatient setting: an Achilles heel? Owens M, Mohan H, Moloney MA, Roche-Nagle G, Baker J, Sheehan S, Mehigan D, Barry M. Ir Med J. 2013 Apr;106(4):116-8.

Use of embolic protective devices in treating acute arterial occlusions: an interventional radiology and vascular surgery collaborative learning experience. Woodley-Cook J, Prabhudesai V, Moloney T. BMJ. 2013 Apr 10;2013.

Enhanced recovery after vascular surgery: protocol for a systematic review. Gotlib Conn L, Rotstein OD, Greco E, Tricco AC, Perrier L, Soobiah C, Moloney T. Syst Rev. 2012 Nov 2;1:52. doi: 10.1186/2046-4053-1-52.

RESEARCH AND INVESTIGATION

AHSC AFP Innovation Fund 2012 – 2013 – “TAC-CALL: Thoracic Aortic Care – Comprehensive Aortic Care on-line from acute presentation to long-term follow-up.” 2012 – 2014, Moloney T, et al.

Honours Received

Tanner, W: Ontario Medical Association “Lifetime Achievement Award “ May 2013.

Moloney, T: Fitzgerald Academy Clerkship Teaching Award July 2012



CAR:
D. Anastakis, C. Ringsted,
S. Strauss, S. Kitto



CAR:
J. Rutka, O. Rotstein,
J. Hall, T. Daniels



CAR:
T. Lindsay, G. Roche-Nagle,
S. Keshavjee



Sunnybrook Health Sciences Centre

Avery Nathens, *Surgeon-in-Chief*

Heads of Division

Dr. S. Fremes	Cardiac and Vascular Surgery
Dr. N. Coburn	General Surgery
Dr. T. Mainprize	Neurosurgery
Dr. H. Kreder	Orthopaedic Surgery
Dr. P. Binhammer	Plastic Surgery
Dr. R. Kodama	Urology

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

Dr. G. Christakis Professor
Dr. G. Cohen Associate Professor
Dr. A. Dueck Assistant Professor
Dr. S. Fremes Professor (Division Head)

Dr. D. Kucey Assistant Professor
Dr. R. Maggisano Associate Professor
Dr. F. Moussa Lecturer
Dr. G. Papia Assistant Professor

Publications

Cristancho S, Moussa F, Dubrowski A. Simulation-augmented training program for Off-Pump coronary artery bypass surgery. Developing and validating performance assessments. *Surgery*. 2012; 151(6):785-795.

Deb S, Cohen EA, Singh SK, Laupacis A, Une D, Fremes SE for the RAPS Investigators. Radial artery and saphenous vein patency more than 5 years after coronary artery bypass surgery: results from the Randomized Multicentre Radial Artery Patency Study. *Journal of American College of Cardiology*. 2012 Jul 3.

de Mestral C, Dueck AD, Gomez D, Haas B, Nathens AB. Associated injuries, management, and outcomes of blunt abdominal aortic injury. *Journal of Vascular Surgery*. 2012 Sep; 56(3):656-60.

de Mestral C, Dueck A, Sharma SS, Haas B, Gomez D, Hsiao M, Hill A, Nathens AB. Evolution of the incidence, management, and mortality of blunt thoracic aortic injury: a population-based analysis. *JACS*. 2013 Jun; 216(6):1110-5.

Une D, Deb S, Chikazawa G, Kommaraju K, Tsuneyoshi H, Karkhanis R, Singh S, Vincent J, Tsubota H, Sever J, Moussa F, Cohen G, Christakis GT, Fremes SE. Cut-off values for transit time flowmetry: Are the revision criteria appropriate? *Card Surg*. 2013 Jan; 28(1):3-7.

INVITED LECTURES

Cohen G: Canadian Cardiovascular Research Network, Toronto, Ontario, Canada, 8 June 2013. Speaker: Percutaneous heart valve therapies.

Dueck A: Winnipeg National Vascular Fellows Conference, Manitoba, Canada, 20 April 2013. Speaker: Decision making in Aorto-iliac disease; surgery vs angioplasty.

Moussa F: Advances in Surgical Education and Clinical Simulation, Buccaramanga, Colombia, July 2012. Invited Speaker: Camillo Pizzaro Current Trends in Simulation in OPCAB A simulation-based program for training OPCAB. In association with The JP Bickell Grant.

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.

Moussa F: Cardiac Surgery Rounds, Hamilton Health Sciences Centre, Hamilton, Ontario, Canada, May 2013. Invited Speaker: Trends in Cardiac Surgical Education The use of simulation for training OPCAB in cardiac surgery.

Research and Investigations

CABG Off or On Pump Revascularization Study (CORONARY). Lamy A, Yusuf S, Taggart D, Murkin J, Fremes SE. Canadian Institutes of Health Research (CIHR). (\$6,580,411 2007 - 2014).

Canadian Network and Centre for Trials Internationally. Yusuf S, Anand S, Dagenais G, Roberts R, Cairns J, Devereaux P, Connolly S, Dorian P, Cox J, Gerstein H, Fremes SE. Canadian Institutes of Health Research (CIHR) / Canadian Foundation for Innovation. (\$19,582,529 2008 - 2013).

CORONARY (On-Pump or Off-Pump Coronary Artery Bypass Grafting at 30 Days). Lamy A, and The CORONARY Investigators. Canadian Institutes of Health Research (CIHR). (2010 - present).

Curcumin to Prevent Perioperative Complications After Elective Abdominal Aortic Aneurysm Repair: a Randomized Controlled Trial. Tobe S, Hladunewich M, Papias G: Canadian Institutes of Health Research (CIHR) (\$322,419 2011 - 2015).

Developing and Evaluating a Simulation-Based Program for Teaching Off-Pump Coronary Artery Bypass Surgery. Moussa F, Dubrowski A, Ajjawi R: Sunnybrook Education Research and Scholarship Grant. (\$10,000 2013 - 2014).

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

MR-Guided Revascularization of Occlusive Peripheral Arterial Disease. CIHR, Wright G, Dueck A, Strauss B. Canadian Institutes of Health Research (CIHR) (\$562,215 2012 - 2017).

PATENT SVG (Comparative Evaluation of Vasomotor Function in Saphenous Veins Harvested Using Pedicled vs Conventional Techniques. Fremes S: CIHR (2010 - 2012).

Steroids in cardiac surgery trial (SIRS). Whitlock R, Fremes SE, Quantz M, Ross D, Singal R, Legare J, Brown C, Kieser T, Lamontagne F, Huang K. Canadian Institute of Health Research (CIHR). (\$4,915,889 2010 - 2015).

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. Fremes S: Heart and Stroke Foundation of Canada (HSFC). (\$290,163 2010 - 2013).

11. Transfusion Requirements in Cardiac Surgery (TRICSII). Mazer D, Fremes S. Canadian Institutes of Health Research (CIHR). (\$356,466 2011 - 2014).

Honours and Awards

Moussa F: University of Dundee, Dundee, Scotland. Author, MMed Dissertation passed with distinction. 2012.

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

Abu-Abed S, Pennell N, Petrella T, Wright FC, Seth A, Hanna W. KIT gene mutations and patterns of protein expression in mucosal and acral melanoma. *Journal of Cutaneous Medicine and Surgery*. March-April; 16(2):135-42.

Ali J, Sorvari A, Henry S, Kortbeek J, Tremblay L. Advanced trauma operative management (ATOM) course - A 2-student to 1 faculty model. *Journal of Surgical Research*. 2013 Mar 25; PMID: 23541174.

Benatar T, Yang W-Y, Amemiya Y, Evdokimova V, Kahn H, Holloway C, Seth A. IGFBP7 Reduces Breast Tumor Growth by Induction of Senescence and Apoptosis Pathways. *Breast Cancer Research and Treatment*. 2012; 133(2): 563-573.

Bhella S, Gerard L, Lin Y, Rizoli S, Callum J. Obstetric and trauma database review at a single institution finds the optimal maternal age restriction for the transfusion of O- blood to women involved in trauma to be 45 years. *Transfusion*. 2012 Nov;52(11):2488-9.

Bickenbach KA, Karanicolas PJ, Ammori JB, Jayaraman S, Winter JM, Fields RC, Govindarajan A, Nir I, Rocha FG, Brennan MF. Up and down or side to side? A systematic review and meta-analysis examining the impact of incision on outcomes after abdominal surgery. *Am J Surg*. 2013 Apr 6. doi:pil: S0002-9610(13)00154-2. 10.1016/j.amjsurg.2012.11.008. [Epub ahead of print].

Brar S, Law C, McLeod R, Helyer L, Swallow C, Paszat L, Seevaratnam R, Cardoso R, Dixon M, Mahar A, Lourenco LG, Yohanathan L, Bocicariu A, Bekaii-Saab T, Chau I, Church N, Coit D, Crane CH, Earle C, Mansfield P, Marcon N, Miner T, Noh SH, Porter G, Posner MC, Prachand V, Sano T, van de Velde C, Wong S, Coburn N. Defining Surgical Quality in Gastric Cancer: A RAND/UCLA Appropriateness Study. *J Am Coll Surg*. 2013 May 8;S1072-7515(13).

Brar SS, Seevaratnam R, Cardoso R, Law C, Helyer L and Coburn N. A systematic review of spleen and pancreas preservation in extended lymphadenectomy for gastric cancer. *Gastric Cancer*. 2012 Sep;15 Suppl 1:S89-99. PMID: 21915699. AID: 10.1007/s10120-011-0087-4 [doi].

Brar SS, Seevaratnam R, Cardoso R, Yohanathan L, Law C, Helyer L and Coburn NG. Multivisceral resection for gastric cancer: a systematic review. *Gastric Cancer*. 2012 Sep; 15 Suppl 1:S100-7. Epub 2011 Jul 23. PMID: 21785926. AID: 10.1007/s10120-011-0074-9 [doi].

Calland JF, Nathens AB, Young JS, Neal ML, Goble S, Abelson J, Fildes JJ and Hemmila MR. The effect of dead-on-arrival and emergency department death classification on risk-adjusted performance in the American College of Surgeons Trauma Quality Improvement Program. *J Trauma Acute Care Surg*. 2012 Nov;73(5):1086-91.

Callum JL, Rizoli S. Assessment and management of massive bleeding: coagulation assessment, pharmacologic strategies, and transfusion management. *Hematology*. 2013 Jan;2012:522-8.

Carrasco CE, Godinho M, Barros MBA, Rizoli S, Fraga GP. Fatal motorcycle crashes: a serious public health problem in Brazil. *World Journal Emergency Surgery*. 7(Suppl 1):S5. 2012.

Cardoso R, Bocicariu A, Dixon M, Yonathan L, Seevaratnam R, Helyer L, Law CHL, Coburn NG. What is the accuracy of sentinel lymph node biopsy for gastric cancer? A systematic review. *Gastric Cancer*. 2012 Sep; 15 Suppl 1:S48-59.

Cardoso R, Coburn N, Seevaratnam R, Sutradhar R, Lourenco LG, Mahar A, Law C, Yong E, Tinmouth J. A systematic review and meta-analysis of the utility of EUS for preoperative staging for gastric cancer. *Gastric Cancer*. 2012 Sep;15 Suppl 1:S19-26.

Cardoso, R, Coburn, N, Seevaratnam, R, Mahar, A, Helyer, L, Law, C, Singh, S. A systematic review of patient surveillance after curative gastrectomy for gastric cancer: A brief review. *Gastric Cancer*. 2012 Sep;15 Suppl 1:S164-7.

Clarke GM, Muray M, Holloway CMB, Liu K, Zubovits JT, Yaffe MJ. 3D Pathology Volumetric Technique: A Method for Calculating Breast Tumour Volume from Whole-Mount Serial Section Images. *International Journal of Breast Cancer*. 2012, Article ID 691205, doi:10.1155/2012/691205.

Coburn N. Current issues in gastric cancer management. *Gastric Cancer*. 2012 Sep;15 Suppl 1:S1.

Coburn NG, Fulton JP, Cady B, Law CHL, Chung MA. Continuously Improving Size, Lymph Node Metastatic Rate, and Mortality of Invasive Breast Cancer in Rhode Island Women, a Well Screened Population: a cohort study. *Breast Cancer Res Treat*. 2012 Oct;135(3):831-7.

Coburn N, Fulton J, Pearlman DN, Law C, DiPaolo B, Cady B. Treatment variation by insurance status for breast cancer patients. *Breast Cancer Res Treat*. 2008 Mar-Apr;14(2):128-34.

Coburn N, Seevaratnam R, Paszat L, Helyer L, Law C, Swallow C, Cardoso R, Mahar A, Lourenco LG, Dixon M, Bekaii-Saab T, Chau I, Church N, Coit D, Crane CH, Earle C, Mansfield P, Marcon N, Miner T, Noh SH, Porter G, Posner MC, Prachand V, Sano T, van de Velde C, Wong S, McLeod R. Optimal Management of Gastric Cancer: Results From an International RAND/UCLA Expert Panel. *Ann Surg*. 2013 Mar 8.

Corrigan M, Alriyees L, Waburton R, Boileau JF, Holloway C, Wright F, Escallon J, George R, McCready D. University of Toronto Surgical Oncology Manual - Breast Cancer Chapter. Pages 37-60. 2012.

Cox C, Holloway C, Shaheta A, Nofech-Mozes S, Wright FC. What is the burden of axillary disease after neoadjuvant therapy in women with locally advanced breast cancer? *Current Oncology*. 2013 Apr 2; 20(2):111-7.

Cukier M, Smith AJ, Milot L, Chu W, Chung H, Fenech D, Herschorn S, Ko Y, Rowsell C, Soliman H, Ung YC, Wong CS. Neoadjuvant chemoradiotherapy and multivisceral resection for locally advanced primary colon cancer: A single institution experience. *Eur J Surg Oncol*. 2012 Aug;38(8):677-82.

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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.

Ashamalla S: Ontario Medical Association / Cancer Care Ontario Family Medicine Evenings, October 2012. Co-chair and organizer: Surgical Management of Colorectal Cancer For the Family Physician.

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

Coburn N: Pan-American Congress on Gastric Cancer Congress, Porto Alegre, Rio Grande do Sul, Brazil, 8 September 2012. Invited Speaker: Guidelines for the Management of Gastric Cancer.

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.

Fenech D: Canadian Surgery Forum, Calgary, Alberta, Canada, 13 September 2012. Invited Speaker: Pathological Reporting of Malignant Polyps Post Graduate Course in Colorectal Surgery.

Karanicolas PJ: Americas Hepato-Pancreato-Biliary Association (AHPBA), Miami, Florida, United States, 14 November 2012. Medial Open Transversus Abdominis Plane (MOTAP) Catheter Analgesia: A simple, safe, effective technique following open liver resection.

Karanicolas PJ: McGill University, Montreal, Ontario, Canada, 21 November 2012. Visiting Professor: Hepatic Artery Infusional Pump Chemotherapy for Colorectal Liver Metastases.

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: Colombian Surgery Association, Colombia, 21 August 2012. Invited Speaker: Advances in Surgery.

Law C: PNET Consensus Guideline Meeting, British Columbia, Canada, 9 September 2012. Facilitator.

Law C: Day of Learning Program, Annual General Meeting, Ontario, Canada, 13 October 2012. Speaker: Surgical Interventions for GIST: What it means, how it works and ways to prepare.

Law C: Windsor Regional Hospital for DST Rounds, Ontario, Canada, 23 November 2012. Speaker: General Surgery Update - What’s New, Current Practice Patterns and a Discussion.

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: AMGEN, Montreal, Quebec, Canada, 21 May 2013. Keynote Speaker: CRC Liver Mets Resectability GI Workshop Series in Montreal.

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: Thunder Bay Regional Research Institute, Thunder Bay, Ontario, Canada, 21 October 2012. Speaker: Knowledge Translation in Cancer Care.

Smith AJ: Stronach Regional Cancer Centre, Newmarket, Ontario, Canada, 9 November 2012. Invited Speaker: Colorectal Cancer Diagnostic Assessment Pathway.

Smith AJ: Ontario Institute for Cancer Research, Toronto, Ontario, Canada, 11 April 2013. Invited Lecturer: Models of Care Program-An RVP's Persepective.

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: Melanoma Network of Canada, Toronto, Ontario, Canada, 8 December 2012. Invited Speaker: Surgical Issues with melanoma Patient Information Session.

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?

Wright F: Canadian Society of Surgical Oncology, Toronto, Ontario, Canada, April 2013. Panel Discussant: Difficult cases in melanoma.

Research and Investigations

A population-based outcome and economic evaluation of interventions for gastric cancer. Coburn N. CIHR (\$28,133 2012 - 2015).

Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients. Lacroix J, Callum J, Fowler R, Rizoli S. Canadian Institutes of Health Research (CIHR). (\$4,050,189 2009 - present).

Canadian Colorectal Cancer Consortium (C4): Clinical and Molecular Screening in Patients with Colorectal Cancer and their Family Members. Gallinger S, Batist G, Hsieh E, Pollett A, Baxter N, Gryfe R, Ferguson S, Hart T. Terry Fox Research Institute (TFRI). (\$1,263,831 2012 - 2014).

Catecholamines as outcome markers in traumatic brain injury (COMA). Rizoli S. Physician Services Incorporated. (Aug 2011 - 2013).

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).

Evaluating quality improvement in colorectal cancer surgery in Ontario. Simunovic M, Baxter N, Forbes S, Urbach D, Brouwers M, Earle C, Stukel T. Canadian Institutes of Health Research (CIHR). (\$619,014 2012 - 2015).

Hepatic Artery Infusional Pump Chemotherapy for Unresectable Colorectal Liver Metastases: A Feasibility Study. Karanicolas P, Milot L, Ko YJ. Canadian Cancer Society. (\$100,000 2013).

Hepatopancreaticobiliary Community of Surgical Oncologists: Clinical, Evaluative, and Prospective Trails Teams (HPB CONCEPT Team). Karanicolas P, Guyatt G, Barkun J, Dixon E, Porter G, Wei A. CIHR Planning Grant (\$24,900 2013 - 2014).

Implementation & Assessment of a Novel Multidisciplinary e-Discharge Summary to Improve Efficiency, Satisfaction, and Safety of Transfer of Care for Complex Patients. Tremblay L, Etchells E, Engels P, Chan K, Farquharson L. AHSC AFP Innovation Fund (\$71,342 2011 - 2013).

Improving Cancer Symptom Management Through Knowledge Translation. Bryant-Lukosius D, Cummings G, Farrelly L, Fitch M, Forbes M, Green E, Greenberg A, Manii D, Martelli-Reid L, Miller P, Molloy S, Pond G, Seow H, Smith AJ, Snider A, Watson L, Wiernikowski J. Canadian Cancer Society Research Institute (CCSRI). (\$100,000 2012 - 2014).

Innovation in Abdominal Wall Reconstruction for Complex Ventral Hernias Using a New Porcine Biologic Tissue Matrix. Brenneman F, Spencer F, Tien H, Smith A, Sawyer J. Ministry of Health of Ontario, Sunnybrook AFP Innovation Fund. (\$95,000 2012 - 2014).

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).

Multicentre Evaluation of a Novel Technique of Analgesia Following Open Liver Resection: Midline Open Transversus Abdominis Plane (MOTAP) Catheters. Karanicolas P, Wei A, McHardy P, Sawyer J, Law C, Coburn N, Cleary S, McCluskey S, Kiss A, Behman R, Lam-McCulloch J. Sunnybrook Health Sciences Centre (Toronto, ON), AFP Innovation Fund. (\$98,562 2013 - 2015).

Novel neurobiomarkers for early detection and treatment of mild TBI and PTSD patients. Rizoli S. Canadian Institute for Military & Veteran Health Research (CIMVHR). (2012 - 2013).

Population based analysis of neuroendocrine tumours: Epidemiology, Processes of Care and Outcomes in Ontario. Singh S, Law CHL. University of Toronto, The Dean's Fund. (\$100,000 2009 - 2014).

Prospective, Randomized Optimal Platelet and Plasma Ratios (PROPR) Study. Rizoli S, Callum J. Canadian Forces Health Services and Defence Research Development Canada. (\$1,200,000 2011 - 2015).

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

Screen-Net Ontario: The Ontario Cancer Screening Research Network. Paszat, L, Rakovitch E, Seth A, Hanna W, Murphy J, Kupets R, Baxter N, Tinmouth J, Hsieh E, Fleshner N, Chiarelli A, Auberger Z, vanBallegooijen M, Lansdorp-Vogelaar I, Andrulis I, Knight J. Cancer Care Ontario. (\$1,180,000 2011 - 2016).

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).

The impact of an institutional multidisciplinary tracheostomy team on patient care and clinical outcomes: An observational before and after cohort study. Chu P, Chapman M, Tien H, Tremblay L. Sunnybrook AFP Association, AFP Innovation Funding. (\$10,000 2012 - present).

The use of extended perioperative low molecular weight heparin to improve cancer specific survival following surgical resection of colon cancer: A randomized controlled trial. Auer R, Carrier M, Smith AJ, Allan D, Jonker D, Mamazza J, Tagalakis V, Wells P. Canadian Institutes of Health Research (CIHR). (\$800,000 2010 - 2014).

Tranexamic Acid versus Placebo to Reduce Perioperative Blood Transfusion in Patients Undergoing Major Liver Resection for Cancer: A Pilot, Randomized Controlled Trial. Karanicolas P, Lin Y, Tarshis J, Kiss A, Lam-McCulloch J. University of Toronto (\$24,780 2012 - 2013).

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: Queen's Diamond Jubilee Medal, Governor General of Canada. It serves to honour significant contributions and achievements by Canadians. Dec 2012.

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

Publications

Ahuja C, da Costa L. Delays in carotid endarterectomy with symptomatic high-grade carotid stenosis. Canadian Journal of Neurological Sciences. 2012 Sep 30; 39(5).

Arnoldner C, Pirouzmand F, Houlden D, Lin VYM, Nedzelski JM, Chen JM. Facial Nerve Prognostication in Vestibular Schwannoma Surgery. The Laryngoscope. 2013 Feb.

da Cunha MVR, Keith J, da Costa L. Aggressive giant cell glioblastoma with negative P53 expression: case report. Arquivos Brasileiros de Neurocirurgia. 2012 Aug 21.

Houlden DA, Ubriaco G, Stewart CP, Robertson SL, Cohen M, Potapova E, Pirouzmand F. Optimal intraoperative somatosensory evoked potential stimulus intensity can be determined by nerve action potential amplitude. Journal of Clinical Neurophysiology. 2012 Dec 29.

Keith J, Pirouzmand F, Diamandis P, Ghorab Z. Intra-operative cytodiagnosis of Progressive Multifocal Leukoencephalopathy. Diagnostic cytopathology. 2013 Feb 1.

Mansouri A, Symons S, Schwartz M, Chen J, Pirouzmand F. Quantitative volumetric analysis post transsphenoidal pituitary adenoma surgery. Canadian Journal of Neurological Sciences. 2012 Sep 1.

Pirouzmand F. Epidemiology of Traumatic Optic neuropathy in largest Canadian trauma center from 1986-2007. J of Craniofacial Surgery. 2012.

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

Catecholamines as outcome markers in traumatic brain injury study COMA in TBI study. Rizzoli S, Capone A, Rubinfeld G, da Costa L, Topolovec-Vranic J, Chapman M, Shawn R. Physicians Services Incorporated Foundation (The) (PSI). (\$162,500 2011 - 2013).

Evaluate the Safety and Feasibility of Blood-Brain Barrier Disruption Using Transcranial MRI-Guided Focused Ultrasound with Intravenous Ultrasound Contrast Agents in the Treatment of Brain Tumors with Doxorubicin. Mainprize T, Hynynen K, Perry J, Sahgal A, Tsao M, Symons S, Alkins R. Focused Ultrasound Surgery Foundation. (\$150,000 2012 - 2013).

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).

Optical Coherence Tomography for Intraoperative Imaging During Skull Base Neurosurgical Procedures. Yang V, Cusimano M, da Costa L, Standish B. Canadian Institutes of Health Research (CIHR). (\$134,200 2011 - 2014).

The e-Consent Project. Using mobile technology to enhance patient education. da Costa L, Bethune A, Pope M, Werneck C. AHSC AFP INNOVATION FUND. (\$84,173 2013 - 2014).

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. P. Marks	Associate Professor
Dr. T. Axelrod	Professor	Dr. J. Murnaghan	Associate Professor
Dr. H. Cameron	Associate Professor	Dr. D. Nam	Assistant Professor
Dr. J. Cameron	Assistant Professor	Dr. M. Nousiainen	Assistant Professor
Dr. J. Finkelstein	Associate Professor	Dr. R. Richards	Professor
Dr. M. Ford	Assistant Professor	Dr. D. Stephen	Associate Professor
Dr. J. Gollish	Assistant Professor	Dr. V. Wadey	Assistant Professor
Dr. R. Holtby	Assistant Professor	Dr. C. Whyne	Associate Professor
Dr. R. Jenkinson	Lecturer	Dr. C. Wright	Assistant Professor
Dr. H. Kreder	Professor (Division Head)	Dr. A. Yee	Associate Professor
Dr. B. Maki	Professor		

Publications

Abdel M, Acklin YP, Backstein D, Bain G, Barei D, Barg A, Berkes MB, Berry DJ, Kreder HJ, et al. Periprosthetic Fracture Management. 1st Edition. 2013 Mar 3.

Akens MK, Wise-Milestone L, Won E, Schwock J, Yee AJM, Wilson BC and Whyne CM. In-vitro and in-vivo effects of photodynamic therapy on bisphosphonate pre-treated metastatic breast cancer cells. Clinical and Experimental Metastasis. 2012.

Alman BA, Ferguson P, Kraemer W, Nousiainen MT, Reznick RK. Competency-based education: a new model for teaching orthopaedics. Instructional Course Lectures. 2013 Feb;62:565-9.

Axelrod D, Safran O, Axelrod T, Whyne CM, Lubovsky O, Fractures of the clavicle; which x-ray projection provides the greatest accuracy in determining displacement of the fragments? Journal of Orthopaedics and Trauma. 2013; 3.

SPRINT Investigators, Bhandari M, Tornetta P 3rd, Rampersad SA, Sprague S, Heels-Ansdell D, Sanders DW, Schemitsch EH, Swintkowski M, Walter S. (Sample) Size Matters! An examination of sample size from the SPRINT trial study to prospectively evaluate reamed intramedullary nails in patients with tibial fractures. J Orthop Trauma. 2013 Apr 27;27(4):183-8.

Carmichael NM, Katz J, Clarke H, Kennedy D, Kreder HJ, Gollish J, McCartney CJ. An Intensive Perioperative Regimen of Pregabalin and Celecoxib Reduces Pain and Improves Physical Function Scores Six Weeks After Total Hip Arthroplasty: A Prospective Randomized Controlled Trial. Pain Research and Management. 2013 May;18(3):127-32.

- Camp MW, Mattingly DA, Gross AE, Nousiainen MT, Alman BA, McKneally MF.** Patients' Views on Surgeons' Financial Conflicts Of Interest. *Journal of Bone and Joint Surgery American*. 2012 Dec 19.
- Carrothers AD, Rodriguez-Elizalde S, Rogers BA, Razmjou H, Murnaghan D, Gollish J, Murnaghan JJ.** Reported Compliance with thrombo-prophylaxis using and oral factor Xa inhibitor (Rivaroxaban) following total Hip and total Knee Arthroplasty. *The Journal of Arthroplasty*. 2013.
- Caulley L, Wadey V, Freeman R.** "Learning styles of first-year orthopaedic surgical residents at one accredited institution". *Journal of Surgical Education*. March/April 2012; 69(2).
- Chan E, Chan G, Ehrlich L, Hull P, Kreder H, Chu W, Chow E, Emmenegger U.** When the tumour is not the culprit: Avascular necrosis of the hip in a patient with castration-resistant prostate cancer. *Current Oncology*. 2013 Mar; .e:48-51.
- 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 unpredictable balance perturbation? *Journal of Gerontology*. 2012.
- Corbeil P, Bloem BR, van Meel M, Maki BE.** Arm reactions evoked by the initial exposure to a small balance perturbation. *Gait and Posture*. 2012.
- Crookshank MC, Edwards MR, Sellan M, Whyne CM, Schemitsch EH.** Can Fluoroscopy-based Computer Navigation Improve Entry Point Selection for Intramedullary Nailing of Femur Fractures? *Clinical orthopaedics and related research*. 2013 Mar 5. PMID: 23460484.
- Drexler M, Dwyer T, Marmor M, Reischl N, Attar F, Cameron J.** Total Knee Arthroplasty in Patients With Excessive External Tibial Torsion >45 degrees and Patella Instability - Surgical Technique and Follow Up. *Journal of Arthroplasty*. 2012 Nov 8.
- Du WW, Fang L, Yang W, Sheng W, Zhang Y, Seth A, Yang BB, Yee AJ.** The role of versican G3 domain in regulating breast cancer cell motility including effects on osteoblast growth and differentiation in vitro - evaluation towards understanding breast cancer cell bone metastasis. *BMC Cancer*. 2012 Aug 3; 12: 341.
- Du WW, Fang L, Yang X, Sheng W, Yang BL, Seth A, Zhang Y, Yang BB, Yee AJ.** The role of versican in modulating breast cancer cell self-renewal. *Journal of Molecular Cancer Research*. 2013 May;11(5):443-55.
- Du WW, Yang W, Yee AJ.** Roles of versican in cancer biology - tumorigenesis, progress, and metastasis. *Histology and Histopathology*. 2013 Mar 22; 28(6):701-13.
- Engels P, Beckett A, Finkelstein J, Da Costa L, Papia G, Rizoli S, Tien H, Rubinfeld G.** Physical Rehabilitation of the Critically Ill Trauma Patient in the ICU. *Critical Care Medicine*. CCMED-D-12-00823R1. 2012 Dec 16.
- Fandiño M, Macdonald KI, Singh D, Whyne CM, Witterick IJ.** Determining the best graft-sealant combination for CSF leak repair using an in vitro porcine model. *International forum of allergy and rhinology*. *Int Forum Allergy Rhinol*. 2013 Mar;3(3):212-6.
- Fang L, Du WW, Yang X, Chen K, Ghanekar A, Levy G, Yang W, Yee AJ, Lu WY, Xuan JW, Gao Z, Xie F, He C, Deng Z, Yang BB.** Versican 3'-untranslated region (3'-UTR) functions as a ceRNA in inducing the development of hepatocellular carcinoma by regulating miRNA activity. *FASEB J*. 2013 Mar; 27(3):907-19.
- Finkelstein JA, Fleming JFR.** Neck and Arm Pain and Related Symptoms: Cervical Disc Disease. Discussion Paper prepared for The Workplace Safety and Insurance Appeals Tribunal. 2012 Oct.
- Finkelstein JA, Quaranto BR, Schwartz CE.** Threats to the internal validity of spinal surgery outcome assessment: Reclibration response shift or implicit theories of change? *Applied Research in Quality of Life*. 2013 Mar; 8(1): DOI 10.1007/s11482-013-9221-2, ISSN 1871-25874.
- Goertz DE, Amandeep ST, Karshanfianc R, Ladouceurb M, Whyne CM, Foster F, Strauss BH.** In vivo Feasibility Study of Ultrasound Potentiated Collagenase Therapy of Chronic Total Occlusions. *Ultrasonics*. 2013.
- Goertz DE, Thind AS, Karshafian R, Ladouceur M, Whyne CM, Stuart Foster F, Strauss BH.** In vivo feasibility study of ultrasound potentiated collagenase therapy of chronic total occlusions. *Ultrasonics*. 2013 Jul 29. doi:pii: S0041-624X(13)00217-5. 10.1016/j.ultras.2013.07.014. PMID: 23948508.
- Gorapalli D, Seth A, Vournakis J, Whyne C, Akens M, Zhang A, Demcheva M, Qamirani E, Yee A.** Evaluation of a novel poly N-acetyl glucosamine (pGLcNAc) hydrogel for treatment of the degenerating intervertebral disc. *Life Sciences*. 2012 Dec 17; 91(25-26): 1328-35.

- Hageman MGJS, Guitton TG, Ring D.** Science of Variation Group. How surgeons make decisions when the evidence is inconclusive. *Journal of Hand Surgery*. 06 May 2013; 38(6):1202-8.
- Hardisty MR, Akens MA, Hojjat SP, Whyne CM.** Quantification of the Effect of Osteolytic Metastases on bone Strain within Whole Vertebrae using Imaging registration. *Journal of Orthopaedic Research*. 2012 Jul; 30(7):1032-9.
- Hawker GA, Badleym EM, Borkhoff CM, Croxford R, Davis AM, Dunn S, Gignac MA, Jaglal SB, Kreder HJ, Sale JEM.** Which patients are most likely to benefit from total joint arthroplasty? *Arthritis and Rheumatism*. 2013 Mar 4; 65:1243-52.
- Herbert-Davies J, Laflamme GY, Rouleau D; HEALTH and FAITH Investigators.** Bias towards dementia: Are hip fracture trials excluding too many patients? A systematic review. *Injury*. 2012 Dec; 43(12):1978-84.
- Henry PDG, Jenkinson RJ, Kreder HJ.** Fractures of the pelvic ring and the acetabulum. Outcomes of Pelvic Ring Fractures in Adults. 2012 Oct.
- Henry PD, Kreder HJ, Jenkinson RJ.** The osteoporotic acetabular fracture. *Orthop Clin North Am*. 2013 Apr; 44(2):201-15.
- Hojjat SP, Beek M, Akens MK, Whyne CM.** Can micro-imaging based analysis methods quantify structural integrity of rat vertebrae with and without metastatic involvement? *Journal of Biomechanics*. 2012 Sep 21; 45(14): 2342-8.
- Jenkinson RJ, Carrothers AD, Kreder HJ.** Distal femur periprosthetic fractures treated with knee arthroplasty. *Manual of Periprosthetic Fractures*. 2012 Oct.
- Jenkinson RJ, Kreder HJ.** Proximal Tibia. *Evidence Based Orthopaedics*. Ed: Bhandari M. Blackwell Publishing: Oxford: 2012.
- Jenkinson RJ, Rubenstein J, Tile M.** Defining the injury: Assessment and principles of management of pelvic ring and the acetabulum. *AO Trauma*. 2012 Oct.
- Kreder HJ, Jenkinson R.** Factorial Randomized Trials. *Advanced Concepts in Surgical Research*. 2012 Georg Thieme Verlag KG, Editor: Bhandari M, Robionek B, pgs 1-7. 2012.
- Leckie A, Akens MK, Woodhouse KA, Yee AJM, Whyne CM.** Evaluation of thiol-modified hyaluronan and elastin-like polypeptide composite augmentation in early-stage disc degeneration - comparing two minimally invasive techniques. *Spine*. 2012 Sep 15; 37(20): E1296-303.
- Lo VCK, Akens MK, Moore S, Yee AJM, Wilson BC, Whyne CM.** Beyond radiation therapy: Photodynamic therapy maintains structural integrity of irradiated healthy and metastatically-involved vertebrae. *Breast Cancer Research and Treatment*. 2012 Sep; 135(2): 391-401.
- Lo V, Akens MK, Wise-Milestone L, Yee A, Wilson BC, Whyne C.** The benefits of photodynamic therapy on vertebral bone are maintained and enhance by multimodality treatment. *Journal of Orthopaedic Research*. 2013 Apr 26; 31(9):1398-405.
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- McCartney C, Craig K, Katz J, Carmichael N, Sidhu M, Gollish J, Kreder HJ, Kennedy D, Clarke H.** An Intensive Perioperative Regimen of Pregabalin and Celecoxib Reduces Pain at 6 Weeks Following Total Hip Arthroplasty. *Pain Research & Management*. Manuscript Number PRM-2012-6. 2012 Aug 24.
- Malempati H, Wade V, Paquette S, Kreder H, Massicotte E, Rampersaud R, Fisher C, Dvorak M, Fehlings M, Backstein D, Yee A.** Spinal Surgery Fellowship Education in Canada: Evaluation of Trainee and Supervisor Perspectives on Cognitive and Procedural Competencies. *Spine*. 2013 Jan 1; 38(1):83-91.
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- Maloul A, Fialkov J, Whyne CM.** Characterization of the bending strength of craniofacial sutures. *Journal of Biomechanics*. 2013 Mar 15; 46(5):912-7.

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- Nousiainen MT, Latter DA, Backstein D, Webster F, Harris K.** Surgical fellowship training in Canada: where are we at and is improvement required? *Canadian Journal of Surgery.* 2012;55(1);58-65.
- Elliott Pally, MD, Hans J.** Kreder, MD, MPH. Survey of terminology used for the intraoperative direction of the C-arm fluoroscopy. *Canadian Journal of Surgery.* 2013 Apr; 56(2):109-12.
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- Razmjou H, Holtby R, Denis S, Axelrod T, Rihards RR.** Disability outcome measures in patients with advanced osteoarthritis of shoulder. *JBJS.* 2012; Vol. 94-B no. Supp XXI 55.
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- Sernik J, Yee A, Nousiainen M.** Pathological and Impending Fractures. In: *Bone metastases: A translational and clinical approach, 2nd edition.* (Kardamakis, Chow and Vassiliou: eds.) Springer, New York. 2012.
- Stephen DJG.** Acetabular Fractures. *Orthopaedic Trauma Call for the Attending Surgeon.* Published by: SLACK Incorporated, Thorofare, NJ, Edited by: David J. Haks, Kyros R. Ipaktchi, Steven J. Morgan. ISBN: 978-1-55642-992-7. 2013 Mar.
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Szwedowski TD , Fialkov J , Pakdel A , Whyne CM. An optimized process flow for rapid segmentation of cortical bones of the craniofacial skeleton using the level-set method. *Dentomaxillofacial radiology.* 42(4):20120208. doi: 10.1259/dmfr.20120208. Epub 2013 Feb 18. PMID: 23420862 [PubMed - indexed for MEDLINE].

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Webster F, Jenkinson R, Rice K, Kreder H. Why am I not getting my hip fixed today? Institutional factors contributing to delay of hip fracture surgery. *Journal of Bone & Joint Surgery, British Volume. Orthopaedic Proceedings.* 2012 Sep; 94-B:122 .

Wise-Milestone L, Akens MA, Lo V, Yee AJ, Wilson BC, Whyne CM. Local treatment of mixed osteolytic/osteoblastic spinal metastases: is photodynamic therapy effective? *Breast Cancer Research and Treatment.* 2012 Jun; 133(3):899-908.

Wright D, Nam D, Whyne CM. A comparison of stereology, structural rigidity and a novel measure of 3D bone connectivity in the assessment of torsional strength and stiffness in a mouse tibia fracture model. *Journal of Biomechanics.* 2012 Aug 31; 45(13):2236-40.

Yang W, Yee AJ. Versican V2 isoform enhances angiogenesis by regulating endothelial cell activities and fibronectin expression. *FEBS Lett.* 2013 Jan 16;587(2):185-92. doi:10.1016/j.febslet.2012.11.023. Epub 2012 Nov 28.

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: ASSH, Chicago, Illinois, United States, 6 September 2012. Invited Speaker: Evidence Based Treatment of Fractures of the Distal Radius The Fixation Pendulum.

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: AONA, Toronto, Ontario, Canada, 28 November-2 December 2012. 1/ Chair: Introduction and Welcome The History of Fracture Management AONA Basic Principles of Fracture Management Lecture reviewing the history of fracture management and the role of the AO ASIF group in changing the surgical treatment of fracture and limb trauma. 2/ Moderator: Complex Fractures, Mal-unions and Non-Unions. Case discussions AONA Basic Principles of Fracture Management Moderator of concluding module. Case based AIRS questions and audience discussion.

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 North America, Las Vegas, Nevada, United States, 19 January 2013. Invited Speaker: Anatomy and live dissection of Upper Limb anatomy. Shoulder, humerus, elbow and forearm AONA Cadaver Course for Fellows Anatomic dissections of surgical approaches to the Upper Limb. Live and case based discussions.

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.

Axelrod TS: AO Trauma North America, AO Trauma North America Hand and Wrist Course with Cadaver Dissection. Miami, Florida, United States, 24-25 April 2013. 1/ Presenter: Live Surgical Demonstration: Exposures for Scaphoid Fixation 2/ Presenter: Live Surgical Demonstration: The Adams Procedure DRUJ. 3/ Presenter: Live Surgical Demonstration: Exposures for Supracondylar Fracture Fixation. 4/ Invited Speaker: Anatomy of the Elbow. 5/ Facilitator: Case Discussions: Elbow Trauma. 6/ Presenter: Live Surgical Demonstration: Exposures of the Elbow.

Cameron JC: Rocky Mountain Traumatological Society, Aspen, Colorado, United States, 18 January 2013. Invited Speaker: Indications + Results of Tibial Tubercle Osteotomy.

Cameron JC: 33rd SICOT - Orthopaedic World Conference, Dubayy [Dubai], United Arab Emirates, 28 November 2012. 1/ EPOSTER PRESENTATION: Combined Rotational High Tibial Osteotomy & TKA for Congenital Dislocation of the Patella and Osteoarthritis. 2/ EPOSTER PRESENTATION: Simultaneous Distal Peri-Articular Femoral Osteotomy with Total Knee Arthroplasty for Treatment of Osteoarthritis Associated with a Severe Valgus Deformity of More Than 45 Degrees. 3/ EPOSTER PRESENTATION: Failed Quadriceps Tendon Repair Secondary to Patella Baja. 4/ MODERATOR: Focused Poster Session - Miscellaneous: Joints & Rheumatology.

Finkelstein JA: AO Spine, Denver, Colorado, United States, August 4, 2012. Invited Speaker: Anterior Approach to the Cervicothoracic Junction.

Finkelstein JA: International Society for Quality of Life, Budapest, Hungary, 25-27 October 2012. Invited Speaker: 1/ Changing values, changing outcomes: The influence of reprioritization response shift on outcome assessment after spine surgery. 2/ Threats to the Internal Validity of Spinal Surgery Outcome Assessment: Recalibration Response Shift of Implicit Theory of Change.

Gollish J: American Society of Hematology, United States, 8 December 2012. Speaker: Thromboembolic and Bleeding Events Following Elective Hip and Knee Arthroplasty Using Oral Factor Xa Inhibitor.

Gollish J: American Academy of Orthopaedic Surgeons, United States, 19 March 2013. Speaker: 1/ Prospective Observational Study of Thromboembolic and Bleeding Events Following Elective Hip and Knee Arthroplasty using Oral Factor Xa Inhibitor (Rivaroxaban) for Thromboprophylaxis. 2/ Thromboembolic and Bleeding Events Following Elective Hip and Knee Arthroplasty Using Oral Factor Xa Inhibitor.

Jenkinson R: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 21 June 2013. Presenter: Can the preoperative Western Ontario and McMaster (WOMAC) Score predict patient satisfaction following total hip arthroplasty? An analysis of patient-reported outcomes for joint replacement.

Kreder HJ: AO North America, Seattle, Washington, United States, 18-21 August 2012. 1/ Hands Models Lab Moderator: Fracture Reduction Techniques. 2/ Invited Lecturer: Principles Application and Pitfalls Case based discussion. 3/ Faculty: Basic Principles and Techniques of Operative Fracture Management Course for Residents.

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: AO North America, Advanced Principles and Techniques of Operative Fracture Management Course. Toronto, Ontario, Canada, 29 November 2012. 1/ Moderator: Diaphyseal fracture: humerus. 2/ Practical Lab Exercise: Intra articular fractures of the distal humerus.

Kreder HJ: AO Trauma Master's Course: Current Concepts Regarding Periprosthetic Fracture Management. AO North America, Davos, Zürich (de), Switzerland, 3-6 December 2012. 1/ Invited Lecturer: Management of Vancouver B2 and B3 fractures. 2/ Invited Lecturer: The infected periprosthetic hip fracture - how to treat. 3/ Invited Lecturer: Fractures around the total shoulder. 4/ Moderator and Case Discussion Leader: Moderator: Plenary session 3: Advanced techniques in periprosthetic fracture management; Case Discussion Group Leader: Periprosthetic Case Discussions.

Kreder HJ: AO Trauma, North America, Las Vegas, Nevada, United States, 18-19 January 2013. Invited Lecturer: 1/ Case Presentations and Prosection / Approaches to the Elbow and Forearm. 2/ Fellow Cadaver Symposium with Human Anatomic Specimens Surgical approaches for orthopaedic trauma surgery.

Kreder HJ: AO Trauma North America Pelvic and Acetabular Fracture Management Course with Human Anatomical Specimens, Las Vegas, Nevada, United States, 9-12 May 2013. Invited Lecturer: Decision making of pelvic ring disruption: Indications for surgery, choice and location of fixation and approaches.

- 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?
- Murnaghan JJ:** Canadian Arthroplasty Society, London, Ontario, Canada, 15 November 2012. Speaker: 1/ A Competency Based Curriculum for Basic Arthroplasty: Design and Delivery of a New Arthroplasty Rotation for PGY 1 Residents. 2/ Thromboembolic and Bleeding Events Following Elective Hip and Knee Arthroplasty Using Oral Factor XA Inhibitor.
- Murnaghan JJ:** American Academy of Orthopaedic Surgeons, Chicago, Illinois, United States, 25 March 2013. Presenter: Thromboembolic and Bleeding Events following total Hip and Knee Arthroplasty.
- Nam D:** Synthes/Dupuy National Meeting, Toronto, Ontario, Canada, 18 January 2013. Speaker: Clavicular and Proximal Humerus Fracture Management.
- Nam D:** JOINTS Shoulder Meeting, Montreal, Quebec, Canada, 23 February 2013. Speaker: Shoulder imaging.
- Nousiainen M:** The 2012 International Conference on Residency Education, Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario, Canada, 19-20 October 2012. 1/ Presenter: Orthopaedic Boot Camp III: Examining the efficacy of student-regulated learning during an intensive laboratory-based surgical skills course. 2/ Invited Lecturer: Evaluating performance in a competency-based residency program.
- Nousiainen M:** CORR Trauma Course, Mississauga, Ontario, Canada, 24 November 2012. Invited Lecturer: Proximal Tibia Fractures: the Top 10 Things You Need to Know.
- Nousiainen M:** AO North America, AO North America Basic Principles and Techniques of Operative Fracture Management Course, Toronto, Ontario, Canada, 30 November-December 1, 2012. Invited Lecturer: 1/ Preoperative Planning. 2/ Acute Management of Pelvic Ring Injuries. 3/ Practical Exercise II: Absolute Stability.
- Nousiainen M:** Department of Orthopaedics, Yale University School of Medicine, New Haven, Connecticut, United States, 18 January 2013. Visiting Professor: 1/ Competency Based Curriculum in Orthopaedic Surgery: from Idea to Implementation. 2/ An approach to revision total hip arthroplasty.
- Nousiainen M:** American Academy of Orthopaedic Surgeons, Chicago, Illinois, United States, 21 March 2013. Invited Lecturer: The Management of Periprosthetic Femur Fractures Around a Well-Fixed TKA: Nail versus Plate Instructional Course.
- 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.
- Nousiainen M:** Dalhousie University's 2013 Dr. Paul Cudmore Memorial Workshop: "The Practicalities of Competency-Based Education and Assessment: Making It Happen", Halifax, Nova Scotia, Canada, 2 May 2013. Invited Lecturer: Introduction to Competency Based Education & Assessment: Practical considerations when implementing competency-based education and assessment.
- Nousiainen M:** Zimmer Institute and Zimmer of Canada 3rd Annual Hip and Knee Masterclass, Montreal, Quebec, Canada, 3-4 May 2013. Invited Lecturer: 1/ Periprosthetic Fracture Solutions in the Knee: Periprosthetic Fracture with Fixation -- when and how? 2/ The unstable hip replacement: Opening case for table discussion case presentation. 3/ When it dislocates: analyzing the cause. 4/ Infection after hip replacement: pre-op workup. 5/ Wrapping it up: challenging case presentations.
- Nousiainen M:** Canadian Orthopaedic Association Meeting, Winnipeg, Manitoba, Canada, 20 June 2013. Invited Speaker: Developing Assessment Tools for the Evaluation of Trainee Competencies.
- Stephen DJG:** 14th Annual AO Trauma Symposium, Chicago, Illinois, United States, 2-4 August 2012. 1/ Lab Instructor: High energy distal femur fractures - latest techniques. 2/ Invited Speaker: Tibial nonunion/maulunion - gaining union and alignment. 3/ Debater: The mangled extremity, amputation vs salvage.
- Stephen DJG:** AO North America, Seattle, Washington, United States, 23-26 August 2012. 1/ Key Moderator: Principles Overview. 2/ Invited Speaker: Practical Exercise I: Reduction Techniques with Hands on Models. 3/ Invited Speaker: Module 6: Lower Extremity - Articular Fractures Distal Femur.
- Stephen DJG:** 24th Emile Letournel Institute Course and Workshop Fractures of the Acetabulum and Pelvis, Santa Monica, California, United States, 26-29 September 2012. 1/ Invited Speaker: Choice of Approach for Transverse and Transverse Plus Posterior Wall. 2/ Invited Speaker: Sacroiliac Fracture - Dislocations and ilium Fractures. 3/ Moderator: Collinge Practical Exercise: Reduction and Fixation of Pelvic Fractures 1.

Stephen DJG: AO North America Principles and Techniques of Operative Fracture Management Course Part II: Advanced Principles and Techniques of Operative Fracture Management, Toronto, Ontario, Canada, 29 November 2012. 1/ Instructor: ORIF - Talar Neck and Calcaneus. 2/ Lecturer: Calcaneus Fractures: Current Techniques. 3/ Chair: Principle and Techniques of Operative Fracture Management Course.

Stephen DJG: AO Trauma North America, Sun Valley, Idaho, United States, 10-13 March 2013. Invited Speaker: 1/ Current Techniques for Calcaneus Fractures. 2/ Articular Fractures: Hip/Pelvis: Acute Management/Decision Making. 3/ Tibia: Plate Fixation; Indications and Techniques.

Stephen DJG: AO North America Pelvic Course, Las Vegas, Nevada, United States, 9-12 May 2013. 1/ Invited Speaker: Cadaveric Dissection at Oquendo Anterior Acetabulum: Ilioinguinal Approach/ Anterior SI Joint. 2/ Faculty: Faculty Discussion Groups and Lab Tables. 3/ Invited Speaker: ParsCour on Radiology and Classification. 4/ Invited Speaker: Acute Management of High Energy Pelvic Trauma & Internal Fixation of the Pelvic Ring Sacroiliac Dislocation and Fracture/Dislocation.

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: Young Investigator’s Initiative Workshop, Chicago, Illinois, United States, 3 November 2012. Invited Speaker: Perspectives on Bone and Joint Health in Canada.

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: Medtronic Inc, Mt. Tremblant, Quebec, Canada, 26 February 2013. Invited Speaker: The Role of Advanced Surgical Navigation in Vertebral Metastatic Treatment and Research Case-based session (“Making Complex Surgery Easier”) with adult and pediatric presentations featuring surgical navigation.

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: Oxford University Hospitals, Oxford, Oxfordshire, United Kingdom, 26 April 2013. Invited Lecturer: High sacrectomy in locally recurrent rectal carcinoma: Technical perspectives and patient outcomes.

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, Northumbria, Northumbria/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: Kalafong Hospital, University of Pretoria, Atteridgeville, Gauteng, South Africa, 14 May 2013. Invited Lecturer: Management of Multilevel Spinal Fracture in Ankylosing Spondylitis.

Yee A: University of Limpopo, MEDUNSA (Medical University of Southern Africa) Campus, Ga-Rankuwa township north-west of Pretoria, Limpopo, South Africa, 15 May 2013. Invited Lecturer: Fellowship Training of the Future Spine Surgeon - Canadian Update and Educational Opportunities.

Yee A: WITS (University of the Witwatersand), Orthopaedic Department, Johannesburg, Johannesburg, Gauteng, South Africa, 16 May 2013. Invited Lecturer: Management of Multilevel Spinal Fracture in Ankylosing Spondylitis.

Yee A: KZN (KwaZulu-Natal) Department of Health, Nelson Mandela Medical School, Durban, Kwazulu-Natal, South Africa, 17 May 2013. Invited Lecturer: Access to Care - Perspectives on Spine Health in the Province of Ontario Scientific Program.

Yee A: UFS-UV (University of the Free State - Universiteit Van Die Vrystaat Yunivesithi Ya Freistata), Bloemfontein, Free State, South Africa, 20 May 2013. Invited Lecturer: 1/ Clinical Research Update: Current Concepts in the Surgical Management of the Degenerative Lumbar Spine (Tips, Tricks and Pearls) Scientific Program - "Tips, Tricks, and Pearls". 2/ From the bench to the clinic - Opportunities for the treatment of Vertebral metastases.

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).

A Phase I Trial on the use of PDT in the Treatment of Breast Cancer Vertebral Metastasis. Yee AJM, Whyne CM, Bisland S, Wilson B, Akens M, Chow E, Clemons M, Sahgal A, Burch S. CBCF, Ontario Region. (\$300,850 2009 - 2013).

Bone stability and tumor burden in the metastatic spine: Implications of variable disease patterns. Yee AJM, Finkelstein JA. Canadian Institutes of Health Research. (\$440,974 2008 - 2012).

CIHR team for the development, testing and knowledge translation of innovative approaches to optimize gait and balance of older adults. Maki BE, Bayley M, Brooks D, Fernie GR, Flint A, Jaglal S, Liu B, McIlroy WE, Mihailidis A, Perry S, Popovic M, Pratt J. Canadian Institutes of Health Research (CIHR). (\$1,499,982 2008 - 2014).

Can Patient Decision Aids Improve Shared Decision Making and Reduce Gender Disparity in the Utilization of Total Knee Arthroplasty? A Pilot Study. Tugwell P, Hawker SL, Alexander G, Borkhoff C, Dervin G, Kreder H, Stacey D. Canadian Institutes of Health Research (CIHR). (\$110,416 2011 - 2013).

Comparative impact resistance of titanium mesh, polymethyl methacrylate (PMMA), and polyether ether ketone (PEEK) in an in vitro model of custom, patient-specific cranioplasty. Sunderland I, Antonyshyn O, Mainprize T, Whyne CM: AO Foundation start up grant. (\$53,900 2012 - 2014).

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).

Complications and reoperation after tibial plateau fracture fixation in a large population cohort. Wasserstein D, Jenkinson R, Kreder H, Paterson M, Stephen D: Orthopaedic Trauma Association (OTA). (\$10,000 2011 - 2013).

Developing Optimised Vertebroplasty Treatments for Vertebral Fractures in Multiple Myeloma. CARSR, Ashcroft A, Timothy J, Cook G, Kapur N, Whyne CM: Arthrocare UK Ltd. Engineering and Physical Sciences Research Council (EPSRC) (UK). (\$591,281 2010 - 2014).

Development of a novel device & method for stabilizing traumatic craniofacial injuries. Whyne CM, Yee A, Fialkov J, Santerre P, Pilliar R: The Ontario Centres of Excellence (OCE) – MaRS Innovation (MI) Competitive Institutional Proof of Principle Program (CIPoP). (\$42,500 2012 - 2013).

Development of a Novel Method for Stabilizing Traumatic Craniofacial Injuries. Whyne C, Fialkov J, Regev E, Santerre P. Congressionally Directed Medical Research Program. (\$100,000 2010 - 2012).

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,

Jenkinson R, Kreder H, Nathens A, McKee M: Physicians Services Incorporated Foundation (The) (PSI). (\$20,000 2012 - 2013).

EDU-RAPID: ED Ultrasonographic regional anaesthesia to prevent incident delirium. Lee J, Chenkin J, Coyle N, Jenkinson R, Haslam L, Van Der Vyver M, Kreder H: Sunnybrook AFP Innovation (\$99,234 2012 - 2013).

Engineering of Irradiation-Sterilized Musculoskeletal Allografts for Improved Biomechanical Performance. Willett T, Grynepas MD: Canadian Institutes of Health Research (CIHR). (\$230,350 2013 - 2016).

FAITH 2 - A multi centre 2x2 factorial randomized trial comparing sliding hip screws versus cancellous screws and Vitamin D versus placebo on complications and quality of life in the treatment of young adult femoral neck fractures. Maki BE: Canadian Institutes of Health Research (CIHR). (Jul 2012 - Jun 2013).

FLEX FiRST Wire - A novel device to facilitate long bone fracture reduction. Whyne C, Yee A, Ebrahimi H: MaRS Innovation 2012 Proof of Principle Program (MI PoP). (\$15,000 2012 - 2013).

Hip fracture evaluation with alternatives of total hip arthroplasty versus hemi-arthroplasty (HEALTH): A multi-centre randomized trial comparing total hip arthroplasty and hemi-arthroplasty on revision surgery and quality of life in patients with displaced femoral neck fractures. Bhandari M, Richard P, Beaupre L, Coles C, Devereaux P, Einhorn T, Guyatt G, Kreder H, et al: Canadian Institutes of Health Research (CIHR). (\$1,434,636 2013 - present).

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).

Impact of Autologous Platelet Rich Plasma on Enhancing Repair of Rotator Cuff Tendons: A Multicentre Randomized Controlled Trial. Holtby R, Razmjou H, Christakis M, Woodhouse L, Razmjou H, Christakis M, Woodhouse L, MacDermid JC, Faber K, Athwal G: Physicians Services Incorporated PSI. (\$156,300 2012 - 2013).

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

Implications of pathologic changes to bone material properties on the skeletal stability of the metastatic spine. Whyne CM, Yee A, Willett T, Akens M, Barzda V, Boyd D, Grynepas M, Kiss A, Niebur G, Sone E, Willett T: Canadian Institutes of Health Research (CIHR). (\$720,465 2013 - 2018).

Improving quality of care for Canadians at high risk for fractures: A knowledge to action approach. Jaglal S, Hawker G, Majumdar S, Cadarette S, Straus S, Brookman C, Jiwa F, Mihailidis A, Perreault S, Salbach N, Sale J, Sibley K, Funnell L, French S, Raman-Wilms L, Kulic D, Theriault D, Canavan J, McGlasson R, Jenkinson R, Kastner M, Konto P, Kreder HJ, McGilton K, Meadows L: Canadian Institutes of Health Research (CIHR) (\$2,469,271 2012 - Mar 2017).

Instrumental activities of daily living and social roles following hip and knee replacement: Understanding why people's engagement doesn't change. Davis A, Jenkinson RJ: Arthritis Society (The). (\$36,000 2011 - 2014).

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

Moving from Knowledge to Action: The University of Toronto Spine Collaborative (UT-SpineLINK) Phase II Proposal in the Implementation of Knowledge Translation Strategies. Fehlings M, Webster F, Ahn H, Ginsberg H, and UT Spine Program: MOH-LTC, OMA, Ontario Academic Health Sciences Centre Agreement, Alternate Funding Plan Phase III Innovation Funds. (\$100,000 2011 - 2013).

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

Novel Radio Frequency Ablation Technology for Treatment of Solid Tumours in Bone. Sherar M, Murphy K, Whyne C, Yee A, McCann C: MaRS Innovation (MI)Medical Sciences Proof of Principle Program (MSCPoP). (\$199,900 2011 - 2013).

Optimizing Pain and Rehabilitation after Knee Arthroplasty (OPRA) Study. McCartney C, Choi S, Kreder H, Gollish J, Rodriguez-Elizalde S, Katz J, Mamdani M, Thorpe K, Stratford P: PSI (Physicians' Services Incorporated) Foundation. (\$141,000 2012 - 2014).

Photodynamic molecular beacons: improving the quality of life for spinal metastases patients. Zheng G, Akens MK, Wilson BC. Canadian Cancer Society (\$199,999 2012 - 2014).

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).

Photodynamic Therapy to Enhance Fracture Healing. Akens M, Whyne C, Yee A, Nam D, Wilson B: Department of Defense (USA). (\$144,300 2010 - 2012).

Restoration of joint function through subchondral delivery of therapeutics. Marks P, Stanish W, El-Gabalawy H, Shive, MS. Natural Sciences and Engineering Research Council of Canada (NSERC). (\$752,310 2008 - 2013).

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)

Therapeutics and imaging for the injured spinal cord: MRI guided focused ultrasound and viral delivery across the blood spinal cord barrier - A pilot study. Whyne C, Aubert I, Chopra R, Stanisz G, Hynynen K, Finkelstein J, Yee A: Centre for Spinal Trauma. (\$40,000 2011 - 2013).

Training Tibial Nail Distal Locking Screw Insertion Skills to Surgical Trainees: Sureshot Technology Versus Conventional Fluoroscopic Technique. Nousiainen M: Smith and Nephew Inc. (Memphis, TN, USA). (\$45,000 2012 - present).

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).

Validity and Reliability of Clinical Tests in Diagnosing Reparability of Large and Massive Rotator Cuff Tears. Holtby R, Razmjou H, Dwyer T: Sunnybrook Holland Centre Orthopaedic Surgeons Academic Enrichment Fund (\$20,000 2013 - 2014).

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 Satterthwaite, 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.

Whyne C: Spotlight, Women's Leadership Forum, Orthopaedic Research Society. Jan 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. M. Gomez	Assistant Professor
Dr. P. Binhammer	Assistant Professor (Division Head)	Dr. M. Jeschke	Associate Professor
Dr. R. Cartotto	Associate Professor	Dr. J. Lipa	Associate Professor
Dr. M. Dibildox	Lecturer	Dr. S. Shahrokhi	Lecturer
Dr. J. Fialkov	Assistant Professor		

Publications

Arno A, Jeschke MG. The use of dermal substitutes in burn surgery: acute phase. *Dermal Replacements in General, Burn, and Plastic Surgery.* 2013; 1:193-210.

Blit P, Arno A, Jeschke MG. Stem Cells and Tissue Engineering In Wounds and Burns. *Stem Cells Handbook, 2nd Edition.* 2013; 399-411.

Brooks NC, Marshall AH, Qa'aty N, Hiyama Y, Boehning D, Jeschke MG. XBP-1s is Linked to Suppressed Gluconeogenesis in the Ebb Phase of Burn Injury. *Mol Med.* 2013 Mar 15; doi: 10.2119/molmed.2012.00348. [Epub ahead of print].

Brooks NC, Song J, Boehning D, Kraft R, Herndon DN, Jeschke MG. Propranolol restores impaired hepatic PI3K/AKT signaling after burn injury. *Mol Med.* 2012 May 9;18:707-11.

Cartotto R, Callum J. A review of the use of human albumin in burn patients. *Journal of Burn Care and Research.* 2012; 33:702-717.

Cartotto R, Jeschke M. Update on current trends in burn fluid resuscitation. *Resuscitation.* 2013.

Clouatre E, Gomez M, Banfield JM, Jeschke MG. Work-related burn injuries in Ontario, Canada: A follow-up 10-year retrospective study. *Burns.* 2013 Jan 22. doi:pii: S0305-4179(13)00004-1. 10.1016/j.burns.2012.12.020. [Epub ahead of print].

Clouatre E, Pinto R, Banfield J, Jeschke MG. Incidence of hot tap water scalds after the introduction of regulations in Ontario. *Journal Burn Care Research.* 2013 Mar;34(2):243-8.

Cordeiro, PG, Snell, L, Heerdt, A, McCarthy, C. Immediate tissue expander/implant breast reconstruction after salvage mastectomy for cancer recurrence following lumpectomy/radiation. *Plastic and Reconstructive Surgery.* 2012; 129(2): 341-50.

DiSotto-Monastero M, Chen X, Fisch S, Donaghy S, Gomez M. Efficacy of Seven Days per Week Inpatient Admissions and Rehabilitation Therapy. *Archives of Physical Medicine and Rehabilitation.* 2012 Dec; 93(12):2165-2169.

Finnerty CC, Jeschke MG, Qian WJ, Kaushal A, Xiao W, Liu T, Gritsenko MA, Moore RJ, Camp DG 2nd, Moldawer LL, Elson C, Schoenfeld D, Gamelli R, Gibran N, Klein M, Arnoldo B, Remick D, Smith RD, Davis R, Tompkins RG, Herndon DN; for the Investigators of the Inflammation and the Host Response Glue Grant. Determination of Burn Patient Outcome by Large-Scale Quantitative Discovery Proteomics. *Crit Care Med.* 2013 Jun;41(6):1421-1434.

Fung V, Ho A, Shaffer J, Chung E, Gomez M. Use of Nintendo Wii Fit™ in the rehabilitation of outpatients following total knee replacement: a preliminary randomised controlled trial. *Physiotherapy.* 2012 Sep; 98(3):183-188.

Gardner PJ, Knittel-Keren D, Hong YI, Gomez M. Posttraumatic Stress Disorder among outpatients with visible and invisible electrical injury. *Post-Traumatic Stress Disorder.* 2013 Mar 26; 1(1):31-56.

Gauglitz GG, Herndon DN, Williams FN, Jeschke MG. Metabolic response to burn. *Total Burn Care.* 2012; 4: 355-360.

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INVITED LECTURES

- Cartotto R:** American Burn Association Annual Meeting, Palm Springs, California, United States, 24-26 April 2013. 1/ Course Director and Speaker: From Grant to Bedside - Getting Started with Burn Research. 2/ Invited Speaker: Toxic Epidermal Necrolysis - Diagnosis, classification, and SCORTEN.
- Fialkov JA:** PLASTIC SURGERY CONGRESS 2013, Melbourne, Australia, 22-24 April 2013. Invited Speaker: 1/ Sliding vs augmentation genioplasty. 2/ Chin Deformities. 3/ Secondary rhinoplasty: Short nose, saddle nose, cleft nose. How I do it. 4/ Cleft Lip Nose and Lip Revision.
- Jeschke MG:** The Trauma Association of Canada (TAC) and UBC, Faculty of Medicine, Toronto, Ontario, Canada, 2012. Speaker: Pediatric Burns Update on Pediatric Burns, standards of care, vision and future treatments of pediatric burns.
- Jeschke MG:** American Society for Parenteral and Enteral Nutrition, Arizona, United States, February 2013. Distinguished Speaker: The use of anabolic and catabolic agents to treat hypermetabolism.

Research and Investigations

Catecholamines as primary mediators of post-burn hypermetabolism: A clinical prospective trial.

Canadian Institute for Health Research (CIHR). Jeschke M, Rubinfeld G, Boehning Darren. (\$851939.00, Oct 2012 - Sep 2017). [Grants]

Characterization of burn induced hepatic dysfunction. Jeschke M: National Institutes of Health (NIH) (USA). (Jul 2010 - Jun 2015).

Development of a Novel Device and Method for Stabilizing Traumatic Craniofacial Injuries. Whyne C. Ontario Centres of Excellence/MaRS Innovation proof of Principle Program. (\$57,500 2012 - 2013).

Glucose control in severely burned patients: mechanism and therapeutic potential. Jeschke M: Physicians Services Incorporated Foundation (The) (PSI), Health Research Grant Program. (Jul 2011 - Jun 2013).

Leader's Opportunity Fund application. Jeschke M: Canada Foundation for Innovation (CFI). (\$1,100,000 2010 - 2015).

Multicentre Transfusion Trigger Study. Palmieri T, Cartotto R. University of California (Davis, CA), US Army Department of Defense/American Burn Association. (2011 - 2014).

Promoting Employment Success Through Workplace Accommodation Following Traumatic Brain Injury and Electrical Injury. Canadian Institutes of Health Research (CIHR), Institute of Gender and Health. Colantonio A, Stergiou-Kita M, Bayley M, Cassidy JD, Gomez M, Jeschke M, Kirsh B, Kristman V, Vartanian O. (\$100,000 2012 - 2013).

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

Publications

Akbari MR, Trachtenberg J, Lee J, Tam S, Bristow R, Loblaw A, Narod SA, Nam RK. Association Between Germline HOXB13 G84E Mutation and Risk of Prostate Cancer. Journal of the National Cancer Institute. 2012 Jul 9. [Epub ahead of print].

Bangma CH, Bul M, van der Kwast TH, Pickles T, Korfage IJ, Hoeks CM, Steyerberg EW, Jenster G, Kattan MW, Bellardita L, Carroll PR, Denis LJ, Parker C, Roobol MJ, Emberton M, Klotz LH, Rannikko A, Kakehi Y, Lane JA, Schröder FH, Semjonow A, Trock BJ, Valdagni R. Source. Active surveillance for low-risk prostate cancer. Crit Rev Oncol Hematol. 2012 Aug 6.

Basch E, Oliver TK, Vickers A, Thompson I, Kantoff P, Parnes H, Loblaw DA, Roth B, Williams J, Nam RK. Screening for Prostate Cancer With Prostate-Specific Antigen Testing: American Society of Clinical Oncology Provisional Clinical Opinion. Journal of Clinical Oncology. 2012 Jul 16. [Epub ahead of print].

Besla R, Venier N, Colquhoun A, Fleshner NE, Klotz LH, Venkateswaran V. Dutrastreride and metformin reduce growth of prostate cancer cells in culture and alter the SREBP-1 pathway. The Open Prostate Cancer Journal. 2013; 6:10-15.

- Colquhoun A, Venier A, Vandersluis A, Besla R, Sugar L, Kiss A, Fleshner NE, Pollak M, Klotz LH, Venkateswaran V. Metformin enhances the antiproliferative and apoptotic effect of bicalutamide in prostate cancer. *Prostate Cancer and Prostatic Disease*. 2012 Dec 15; 15(4):346-52.
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- Jamnicky L, Nam RK. *The Complete Canadian Guide to Prostate Cancer*, 2nd Edition. (Leask, H.: eds.) J. Wiley, Toronto, 2012: pp 200. 2012 Aug.
- Klotz L. Active surveillance for low-risk prostate cancer. *F1000 Med. Rep*. 2012;4:16. Epub 2012 Aug 1. PMID: 22891078.
- Klotz L. Guest editor. Symposium on active surveillance in prostate cancer. *Current opinion in Urology*. 2013 May; 23(3): 237-282.
- Klotz L. Active surveillance: patient selection. Source Department of Surgery, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Ontario, Canada. *Curr Opin Urol*. 2013 May 23; 23(3):239-44.
- Klotz L. Active surveillance: overview and update. *Curr Treat Options Oncol*. 2013 May 23; 14(1): 97-108.
- Klotz L. Active Surveillance, Quality of Life, and Cancer-related Anxiety. Source Division of Urology, Sunnybrook Health Sciences Centre, University of Toronto. *jeuro. S0302-2838(13)00092-4*. Doi. 2013 Jan 30. PMID: 23433806.
- Klotz L. Active surveillance: the Canadian experience with an “inclusive approach”. *J Natl Cancer Inst Monogr*. 2012 Dec;2012(45):234-41. doi: 10.1093/jncimonographs/lgs042.
- Klotz L. Editorial comment on focal therapy for localised unifocal and multifocal prostate cancer: a prospective development study. *lancet oncol* 2013 Apr; 13: 622-632. *J Urol*. 189(4):1601-2.
- Klotz L. Strengthening evidence for active surveillance for prostate cancer. *European Urology*. 2013 Jan; 63(1):108-10.
- Klotz L. Publishing in Urology: My 20-year journey. PMID: 23093523 [PubMed] PMCID: PMC3433529. *Can Urol Assoc J*. 2012 Aug; 6(4):223. doi: 10.5489/cuaj.12229.
- Klotz L. Prostate Cancer overdiagnosis and overtreatment. *Current Opinion in Endocrinology, Diabetes and Obesity*. 2013 Jun; 20(3):204-209.
- Klotz L. Prostate cancer: Intermittent ADT-tales from a 27-year odyssey. *Nature Rev Urol*. 2013 May 28;10(7):372-4.
- Klotz L. *Active Surveillance for Localized Prostate Cancer*. pub by Springer, New York. Editor. 2012 Jul.
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- Klotz L, Thompson I. Re: active surveillance versus surgery for low risk prostate cancer: a clinical decision analysis. Liu D, Lehmann HP, Frick KD, Carter HB. *Journal of Urology* 2012 Oct 1; 187: 1241-1246.
- Klotz L, Toren P. Androgen Deprivation Therapy in advanced prostate cancer: Is intermittent therapy the new standard of care? *Current Oncology*. 2012 Dec; 19(3):13-21.
- Loblaw DA, Prestrud AA, Somerfield MR, Oliver TK, Brouwers MC, Nam RK, Lyman GH, Basch E. American Society of Clinical Oncology Clinical Practice Guidelines: Formal Systematic Review-Based Consensus Methodology. *Journal of Clinical Oncology*. 2012 Jul 9. [Epub ahead of print].
- Nam RK, Herschorn S, Loblaw DA, Liu Y, Klotz LH, Carr LK, Kodama RT, Stanimirovic A, Venkateswaran V, Saskin R, Law CH, Urbach DR, Narod SA. Population based study of long-term rates

of surgery for urinary incontinence after radical prostatectomy for prostate cancer. *Journal of Urology*. 2012 Aug; 188(2):502-6.

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Ramsay E, Mougnot C, Köhler M, Bronskill M, Klotz L, Haider MA, Chopra R. MR thermometry in the human prostate gland at 3.0T for transurethral ultrasound therapy. *J Magn Reson Imaging*. epub. 2013 Feb 25.

Seiler D, Randazzo M, Klotz L, Grobholz R, Baumgartner M, Isbarn H, Recker F, Kwiatkowski M. Pathological stage distribution in patients treated with radical prostatectomy reflecting the need for protocol-based active surveillance: results from a contemporary European patient cohort. *BJU Int*. 2012 Jul; 110(2):195-200. doi: 10.1111/j.1464-410X.2011.10707.x. Epub 2011 Nov 17. PMID: 22093744 [PubMed - in process].

Toren P, Venkateswaran V. Diet, Obesity and Cancer progression: Are Adipocytes the Link? *Lipid Insights*. 2013; 6:37-45.

Toren P, Venkateswaran V. Periprostatic adipose tissue and prostate cancer progression: new insights into the tumour microenvironment - Review. *Clinical Genitourinary Cancer*. 2013.

Uemura H, Nelson C, Schalken JA, Klotz L. Personalized cancer therapy for urological cancers: from bench to bedside and back. *Adv Urol*. Epub 2012 Sep 12. No abstract available. PMID: 23008703 [PubMed].

Vandersluis A, Venier A, Colquhoun A, Sugar L, Pollak M, Kiss A, Fleshner NE, Klotz LH, Venkateswaran V. Exercise does not counteract the effects of a “westernized” diet on prostate cancer xenografts. *The Prostate*. 2013; 73(11):1223-32.

Van Poppel H, Klotz L. Gonadotropin-releasing hormone: an update review of the antagonists versus agonists. *Int J Urol*. 2012 Jul 19; 19(7):594-601. doi: 10.1111/j.1442-2042.2012.02997.x. Epub 2012 Mar 14. PMID: 22416801 [PubMed - in process].

Venier N, Colquhoun A, Fleshner NE, Klotz LH, Venkateswaran V. Lycopene enhances the anti-proliferative and pro-apoptotic effects of capsaicin in prostate cancer in vitro. *Journal of Cancer Therapeutics and Research*. 2013; 1:30-39.

Venier N., Klotz LH, Fleshner NE, Venkateswaran, V. Capsaicin: A Targeted Chemopreventive Agent for Prostate Cancer - Review. *Nutrition and Cancer*. 2013.

Vesprini D, Nam R. Predicting High-Risk Disease Using Serum and DNA Biomarkers. In: *Active Surveillance for Localized Prostate Cancer: A New Paradigm for Clinical Management*. (Klotz, L.: ed.) Springer, New York, 2012; Chapter 4.

Wagner D, Trudel D, Van der Kwast T, Nonn L, Giangreco AA, Li D, Dias A, Cardoza M, Laszlo S, Hersey K, Klotz L, Finelli A, Fleshner N, Vieth R. Randomized clinical trial of vitamin d3 doses on prostatic vitamin d metabolite levels and ki67 labeling in prostate cancer patients. *J Clin Endocrinol Metab*. 2013 Apr; 98(4):1498-507.

Welk B, Kodama R. The augmented non transected anastomotic urethroplasty for the treatment of bulbar urethral strictures. *Urology*. 2012 Feb 4 (epub ahead of print).

Welk B, Herschorn S, Law C, Nam R. Population based assessment of enterocystoplasty complications in adults. *Journal of Urology*. 2012 Aug; 188(2):464-9.

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: Nelson, British Columbia, Canada, 20 February 2013. Chair: Swiss-Canadian Prostate Cancer Conference Meeting organizer and chairman.

Klotz L: Brazilian Society of Urologic Oncology, Sao Paulo, São Paulo, Brazil, 28 February 2013. Invited Speaker: Brazilian Uro Oncology Conference 3 day conference; 6 talks.

Klotz L: Milan, Umbria, Italy, 15 March 2013. Invited Lecturer: European Urology Association (EAU).

Klotz L: Mayo Clinic, Rochester, Minnesota, United States, 22 March 2013. Visiting Professor.

Klotz L: American Association of Genito-Urinary Surgeons (AAGUS), New Orleans, Louisiana, United States, 5 April 2013. Presenter.

Klotz, Laurence: Prostate Cancer Foundation UK, Cambridge, Cambridgeshire, United Kingdom, 17 April 2013. Distinguished Speaker: 'Blue Skies'.

Klotz L: AUA, San Diego, California, United States, 3 May 2013. Chair: AUA Course on Active Surveillance.

Klotz, Laurence: Iranian American Urological Society, San Diego, California, United States, 4 May 2013. Distinguished Speaker: Samadi Active surveillance vs Radical Therapy Debate.

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

Active Surveillance Magnetic Resonance Imaging Study. Klotz L, Loblaw A, Haider M. Ontario Institute for Cancer Research (OICR). (\$2,450,343 2010 - 2015).

Ajmera Family Chair in Urology Oncology Research. Ajmera Family and Sunnybrook Foundation. Nam R. (\$1,000,000 2012 - 2017).

Analysis of novel methylation biomarkers distinguishing aggressive from indolent prostate cancer. Bharati B, Klotz L, Vesprini D, van der Kwast T, Fleshner N, Venkateswaran V, Lockwood G. Ontario Institute for Cancer Research. (\$619,440 2011 - 2013).

A phase III, randomized, multicentre 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).

ETS gene translocations as biomarkers of prostate cancer. Seth A, Nam R. National Cancer Institute of Canada (NCIC). (\$619,500 2008 - 2013).

Evaluation of MRI-controlled transurethral ultrasound therapy for the treatment of localized prostate cancer. Klotz L, Chopra R, Haider M, Sugar L. National Institutes of Health (NIH) (USA). (\$444,647 2012 - 2013).

Investigation of DNA methylation markers for improved prediction of aggressive disease in prostate cancer patients. Bapat B, van der Kwast T, Fleshner N, Klotz L, Venkateswaran V, Vesprini D, Lockwood G, Zlotta A. Prostate Cancer Research Foundation of Canada. (\$120,000 2011 - 2013).

Microchip-based devices for the analysis of circulating prostate cancer markers. O'Kelley S, Nam R, Sargent E, Wheeler A. Canadian Institutes of Health Research (CIHR). (\$1,735,400 2011 - 2015).

MicroRNAs and Prostate Cancer Progression. Nam R, Seth A. Edmond Odette Foundation. (\$250,000 2012 - 2014).

Summer Undergraduate Research Award. Principal Investigator(s): Venkateswaran V. Merck Inc, Summer Undergraduate Research Award. (\$7,500 2013).

Honours Received

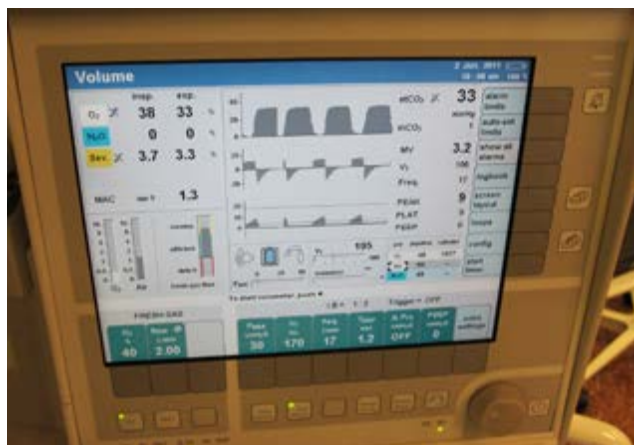
Klotz L: '50 most cited publications', Journal of Clinical Oncology. Klotz L et al JCO 2010 one of 50 most cited publications published by Journal of Clinical Oncology. Jul 2012 - Jun 2013.

Klotz L: Honorary 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.



CAR: A. Nathens, D. Nam, M. Anderson, B. Alman, H. Kreder



CAR: A. Nathens, T. Mainprize, A. Lozano, M. Schwartz





Toronto East General Hospital

Carmine Simone, *Surgeon-in-Chief*

Heads of Divisions

Dr. P. Bernick	General and Thoracic Surgery
Dr. P. Weiler	Orthopedics
Dr. L. Dvali	Plastic and Reconstructive Surgery
Dr. R. Singal	Urology
Dr. B. Cudmore	Dentistry

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 rota-



tion 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

Dr. M.A. Aarts	Assistant Professor	Dr. N. Safieddine	Lecturer
Dr. P.E. Bernick	Assistant Professor (Division Head)	Dr. H. Sawires	Lecturer
Dr. J. Cyriac	Lecturer	Dr. C. Simone	Lecturer
Dr. T. Gilas	Assistant Professor	Dr. R. Zeldin	Associate Professor

Publications

Aarts MA, Okrainec A, Glicksman A, Pearsall E, Victor JC, McLeod RS. Adoption of enhanced recovery after surgery (ERAS) strategies for colorectal surgery at academic teaching hospitals and impact on total length of stay. *Surg Endosc* 2012; 26:442-450.

Invited Visits

Simone, C: Thoracic Nurses Association of Canada Annual Meeting, Toronto, ON, Sept. 26, 2012. "Thoracic Surgery Emergencies"

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. P. Weiler	Assistant Professor
Dr. J.W. Kraemer	Assistant Professor		(Division Head)
Dr. G. Maistrelli	Associate Professor	Dr. P. Wong	Assistant Professor
Dr. F. Mastrogiacomio	Lecturer		

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:

Decision regret following breast reconstruction: the role of self-efficacy and satisfaction with information in the preoperative period. Zhong T, Hu J, Bagher S, O'Neill AC, Beber B, Hofer SO, Metcalfe KA. *Plast Reconstr Surg.* 2013 Nov;132(5):724e-734e.

Patient satisfaction and health-related quality of life after autologous tissue breast reconstruction: a prospective analysis of early postoperative outcomes. Zhong T, McCarthy C, Min S, Zhang J, Beber B, Pusic AL, Hofer SO. *Cancer.* 2012 Mar 15;118(6):1701-9.

Research and Investigations

Acellular Dermal Matrix in One-Stage Breast Reconstruction: A Randomized Controlled Trial. Zhong T, Beber B, Hofer S, Semple J, Brown, M. (2009 – present)

The Use of Acellular Dermal Matrix in One-Stage Implant Breast Reconstruction: A Multicenter, Randomized Controlled Trial. Zhong T, Baxter N, Hofer SOP, Semple J, Brown M, Beber B, Macadam S, Hoch J, Lennox P, Devins J. Canadian Breast Cancer Foundation (CBCF). (\$368,449 2012 – 2015)

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

Sing R, Singal RK: What is Significant Hematuria for the Primary Care Physician? Canadian Journal of Urology: 19, (Supplement 1) October 2012

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





University Health Network

Shaf Keshavjee Md, *Surgeon-In-Chief*

Heads Of Divisions

Vivek Rao MD	Cardiac Surgery
Lorne Rotstein MD	General Surgery
Michael Tymianski MD	Neurosurgery
Nizar Mahomed MD	Orthopedic Surgery
Stefan Hofer MD	Plastic Surgery
Tom Waddell MD	Thoracic Surgery
Neil Fleshner MD	Urology
Thomas Lindsay MD	Vascular Surgery



Division Of Cardiac Surgery

S. Brister, MD	A. Ralph-Edwards, MD
R.J. Cusimano, MD	V. Rao, MD
T. David, MD	R. Weisel, MD
C. Feindel, MD	T. Yau, MD
M. Ouzounian, MD	



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.

Division Of General Surgery

M. Cattral, MD	I. McGilvray, MD
T. Cil, MD	C. Moulton, MD
S. Cleary, MD	C. O'Brien, MD
K. Devon, MD	A. Okrainec, MD
J. Escallon, MD	T. Penner, MD
S. Gallinger, MD	F. Quereshy, MD
A. Ghanekar, MD	M. Reedijk, MD
D. Grant, MD	L. Rotstein, MD
P. Greig, MD	M. Selzner, MD

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. Faye Quereshy was selected as the Assistant Program Director for Surgical Oncology.

Faculty members were very successful with Grant capture: Carol-Anne Moulton was awarded 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. Faye 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.

Division Of Neurosurgery

M. Bernstein, MD	E. Massicotte, MD
M. Fehlings, MD	I. Radovanovic, MD
F. Gentili, MD	M. Shamji, MD
M. Hodaie, MD	C. Tator, MD
S. Kalia, MD	M. Tymianski, MD
P. Kongkham, MD	T. Valiante, MD
A. Lozano, MD	G. Zadeh, MD

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 Kongkham (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 Translational 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 success 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	A. Pierre, MD
G. Darling, MD	T. Waddell, MD
M. de Perrot, MD	K. Yasufuku, MD
S. Keshavjee, 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 ejuvenation 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 Under-

graduate 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 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: Phillippe 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. The Pearson Day Visiting Professor was Dr. Richard Finley from Vancouver.

Division Of Urology

A. Finelli, MD	G. Kulkarni, MD
N. Fleshner, MD	S. Radomski, MD
M. Hassouna, MD	M. Robinette, MD
R. Hamilton, MD	J. Trachtenberg, MD
M. Jewett, 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	B. Rubin, MD
T. Lindsay, MD	L. Tse, MD
G. Oreopoulos, MD	D. Wooster, MD
G. Roche-Nagle, 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.



CAR: A. Smith, M. Selzner, A. Kapus, O. Rotstein



CAR: T. Lindsay, G. Roche-Nagle, S. Keshavjee

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

Alba AC, Alba LF, Delgado DH, Rao V, Ross HJ, Goeree R. Cost-effectiveness of ventricular assist device therapy as a bridge to transplantation compared with nonbridged cardiac recipients. *Circulation*, 2013 Jun;127 (24).

Algarni KD, Elhenawy AM, Maganti M, Collins S, Yau TM. Decreasing prevalence but increasing importance of left ventricular dysfunction and reoperative surgery in prediction of mortality in coronary artery bypass surgery: Trends over 18 years. *Journal of Thoracic and Cardiovascular Surgery*. 2012 Aug;144(2):340-346.

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- Biaggi P, Jedrzkiewicz S, Gruner C, Meineri M, Karski J, Vegas A, Tanner FC, Rakowski H, Ivanov J, David TE, Woo A.** Quantification of Mitral Valve Anatomy by Three-Dimensional Transesophageal Echocardiography in Mitral Valve Prolapse Predicts Surgical Anatomy and the Complexity of Mitral Valve Repair. *Journal of American Society of Echoardiography.* 2012 Jul;25(7):752-65.
- Billia F, Hauck L, Grothe D, Konecny F, Rao V, Kim RH, Mak TW.** Parkinson-susceptibility gene DJ-1/PARK7 protects the murine heart from oxidative damage in vivo. *Proceedings of the National Academy of Sciences of the United States of America,* 2013 Apr;110 (5).
- Bobiarski J, AE Newcomb, AM Elhenawy, M Maganti, J Bos, S Hemeon, V Rao.** One-year hemodynamic comparison of Perimount Magna with St. Jude Epic aortic bioprostheses. *Archives of medical science: AMS,* 2013 Jun;9(3) 2013-06.
- Brunt K, Wu J, Chen Z, PoECKel D, Dercho R, Melo L, Funk C, Ward C, Li R-K.** Ex vivo Akt/HO-1 gene therapy to human endothelial progenitor cells enhances myocardial infarction recovery [epub ahead of print]. *Cell Transplantation.* 2012 Jul. PMID: 22776314.
- Brunt KR, Zhang Y, Mihic A, Li M, Li S-H, Xue P, Zhang W, Basmaji S, Tsang K, Weisel RD, Yau TM, Li R-K.** Role of WNT/df - Catenin Signaling in Rejuvenating Myogenic Differentiation of Aged Mesenchymal Stem Cells from Cardiac Patients. *American Journal of Pathology.* 2012 Dec;181(6):2067-78.
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- David TE, Armstrong S, Manlhiot C, McCrindle BW, Feindel CM.** Long-term results of aortic root repair using the reimplantation technique. *J Thorac Cardiovasc Surg.* 2013 Mar;145(3 Suppl):S22-5.
- David TE, Armstrong S, McCrindle BW, Manlhiot C.** Late outcomes of mitral valve repair for mitral regurgitation due to degenerative disease. *Circulation.* 2013 Apr 9;127(14):1485-92.
- David TE.** Aortic valve haemodynamics after aortic valve-sparing operations. *European Journal of Cardiothoracic Surgery.* 2012 Aug;41(4):788-9.
- David TE.** Aortic valve sparing operations: a review. *Korean Journal of Cardiovascular Surgery.* 2012 Aug;45(4):206-12.
- David TE, Armstrong S, Ivanov J.** Chordal replacement with polytetrafluoroethylene sutures for mitral valve repair: A 25-year experience. *Journal of Thoracic and Cardiovascular Surgery.* 2013 Jun 6;145(6):1563-9.
- David TE.** Aortic valve repair for active infective endocarditis. *European Journal of Cardiothoracic Surgery.* 2012 Jul;42(1):127-8.
- Eguchi M, Xu G, Li R-K, Sweeney G.** Diabetes influences cardiac extracellular matrix remodeling after myocardial infarction and subsequent development of cardiac dysfunction. *Journal of Cellular and Molecular Medicine.* 2012 Dec; 16(12): 2925-34.
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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: University of Indiana, Indianapolis, Indiana, United States, 18 September 2012. Visiting Professor: Lectures: 1/ Patients' selection for aortic valve repair. 2/ Clinical outcomes of aortic valve sparing operations.

David TE: Albert Einstein Medical Center, Philadelphia, Pennsylvania, United States, 8 October 2012. Visiting Professor: Cardiology Grand Rounds: Patients' selection for aortic valve repair and long-term outcomes.

David TE: Society for Cardiothoracic Surgery in Great Britain and Ireland, Brighton, Brighton and Hove, United Kingdom, 18 -19 March 2013. Invited Speaker: 1/ Decalcification of the posterior mitral valve annulus Indications for decalcification and repair of the mitral annulus. 2/ The shifting sands of aortic valve prosthesis choice Review of trends of valve usage. 3/ Aortic valve surgery: present and future Formal lecture on aortic valve surgery. 4/ Tips and tricks in redo cardiac surgery Lecture on operative techniques. 5/ An American perspective on surgical indications for aortic valve regurgitation Review of guidelines and critique. 6/ Technical Aspects of Valve Sparing Aortic Root Surgery How to do lecture. 7/ Connective tissue disorders affecting the aorta: what the surgeon needs to know Description of various genetic aneurysms.

David TE: 9th International Congress of Update in Cardiology and Cardiovascular Surgery, Antalya, Antalya, Turkey, 22-23 March 2013. 1/ Distinguished Speaker: Operation Development, implementation, techniques and results of aortic valve sparing operations. 2/ Invited Speaker: TAVI: present and future. A surgeon's perspective. 3/ Invited Lecturer: Aortic valve replacement with biological substitutes in patients 55 to 65 years of age. 4/ Invited Speaker: Strategies and techniques in Marfan and bicuspid aortas. 5/ Invited Lecturer: How do I foresee the treatment of functional mitral regurgitation in the coming years.

David TE: 30th Congress of Cardiology of the Society of Cardiology of Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil, 6 April 2013. Invited Speaker: 1/ State of art surgical treatment of mitral regurgitation. 2/ Advances on the surgical treatment of aortic valve disease and ascending aortic aneurysms.

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 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 Conference on Cardiomyopathy Research, Golden Jubilee Celebration, PGIMER, Chandigarh, India, 1 - 3 March 2013. Invited Speaker: Cell therapy: A new frontier in the management of heart failure.

Li R-K: Oriental Congress of Cardiology (OCC 2013), Shanghai Society of Cardiology, Shanghai Medical Association, Shanghai, China, 24 – 26 March 2013. Invited Speaker: Stem cells and vascular disease.

Li R-K: Northeast Cardiovascular Forum, Shenyang Northern Hospital, Shenyang, China, 29 – 31 March 2013. Invited Speaker: Progress of cell transplantation and heart repair.

Li R-K: International Conference on Cardiovascular Stem Cells and Tissue Engineering, Chong Qing, China, 30 May 2013. Invited Speaker: Aged human cells rejuvenated for surgical ventricular restoration.

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: 65th Annual Meeting of the Canadian Cardiovascular Society, Toronto, Canada, 29-31 October 2012. Speaker: 1/ Destination Therapy: A reality in Canada? 2/ Advanced Therapies for Heart Failure.

Rao V: Society for Cardiovascular Anaesthesia, Snowmass, Colorado, United States, 11 February 2013. Speaker: 1/ Who gets what? Does everyone deserve everything? 2/ VADs in Adult Congenital Heart Disease.

Rao V: 4th Annual MEA Options and Outcomes Meeting, Dubayy [Dubai], United Arab Emirates, 28 February 2013. Speaker: Gold standard for durability in bioprosthetic aortic valve replacement.

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: Canadian Cardiovascular Congress, Toronto, Ontario, Canada, October 2012. Facilitator: Highlighted studies in heart failure.

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: CIHR Vascular Network, Ottawa, Ontario, Canada, 15 March 2013. Invited Speaker: Canadian collaborative to cure aortic disease.

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.

Yau TM: 11th Annual Canadian Cardiovascular Trainee Day, Toronto, Ontario, Canada, 27 October 2012. Speaker: Breakthroughs in Science and Technology.

Yau TM: Canadian Cardiovascular Society, Toronto, Ontario, Canada, 28 October 2012. Co-Chair: Basic Science in Cardiac Surgery.

Research and Investigations

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

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

An RCT of women's adherence to women-only, home based and traditional cardiac rehabilitation (CR4HER). Grace SL, Pilote L, Arthur HM, Stewart DE, Oh P, Melvin K, Sternberg L, Brister SJ: Heart and Stroke Foundation of Canada (HSFC). (\$369,204 2009 - 2013).

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

Chitosan hydrogel with immobilized growth factors for cell therapy in myocardial infarction. Radisic M, Li R-K: Heart and stroke Foundation of Ontario. (\$210,648 2010 - 2013).

Clinical Trial of Cardiac Stem Cells. Yau T, Li R-K: PMCC Innovation Fund. (\$200,000 2013 - 2015).

Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. Li R-K: Canadian Institutes of Health Research (CIHR). (\$698,984 2010 - 2015).

Improving the Assessment and Treatment of Severe Aortic Stenosis by Evaluating Care Gaps and Advancing Risk Predictions. Tu J, Austin P, Stukel T, Alter D, Natarajan M, Ruel M, Femes S, Strauss B, Cheema A, Chu M, Cantor W, Wijeyesundera H, Peterson M, Feindel C, Kingsbury K: Heart and Stroke Foundation of Ontario (The) (HSFO). (\$331,058 2012 - 2013)

Improving transfusion practice and clinical outcomes in cardiac surgery. Karkouti K, Cursio C, Pendergrast J, Selby R, Wasowicz M, Yau TM: Innovation Fund. (\$207,000 2011 - 2013).

NanoMed Fab: a nanofabrication centre for personalized medicine. Zheng G, Allen C, Chan W, Garipey J, Jaffrey D, Li R-K, Liu M, Rottapel R, Walker G, Wilson B. Canada Foundation for Innovation (CFI). (\$2486515.00 CAD, Jul 2009 - Jun 2014).

Regenerative Medicine and Nanomedicine, Nanotechnology - enabled image - guided interventions (NanoIGI) in vascular and lung diseases. Zheng G, Li R-K, Chang W, Wilson B, Yasufufu K. Canadian Institutes of Health Research (CIHR). (\$2,317,260 2011 - 2016).

Screening for dysphagia in patients following prolonged intubation: Validation of the Toronto bedside swallowing screening test. Martino R, Granton J, Ivanov J, Yau TM. Canadian Institutes of Health Research (CIHR). (\$212,077 2011 - 2014).

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).

Tissue engineering patches for the repair of cardiovascular congenital malformations. Radisic M, Li R-K, Stanford WL: Natural Sciences and Engineering Research Council of Canada (NSERC). (\$444,765 2010 - 2013).

Ultrasound-targeted gene delivery to enhance cell engraftment in the aged heart after ischemic injury. Weisel RD: Canadian Institutes of Health Research. (\$291,680 2012 - 2015).

Honours Received

David TE: Honorary member, Society for Cardiothoracic Surgery in Great Britain and Ireland. 2013

David TE: Honorary member, Society of Cardiology of State of Rio de Janeiro. 2013

David TE: National Academy of Medicine, Rio de Janeiro, Brazil. Honorary member. Apr 2013

Feindel C: Bigelow Lecturship, Canadian Society of Cardiac Surgeons. Oct 2012. Oct 2012

Li, Ren-Ke: The Queen Elizabeth II Diamond Jubilee Medal, The Governor General of Canada. 2012

Division of General Surgery

Dr. M.S. Cattral	Professor	Dr. D. McCready	Professor
Dr. S.P. Cleary	Assistant Professor	Dr. I. McGilvray	Associate Professor
Dr. J. Escallon	Associate Professor	Dr. C.A. Moulton	Assistant Professor
Dr. A. Gagliardi	Associate Professor	Dr. A. Okrainec	Assistant Professor
Dr. S. Gallinger	Professor	Dr. F.A. Quereshy	
Dr. A. Ghanekar	Lecturer	Dr. M. Reedijk	Associate Professor
Dr. D. Grant	Professor	Dr. L.E. Rotstein	Professor (Division Head)
Dr. P. Greig	Professor	Dr. M. Selzner	Assistant Professor
Dr. T. Jackson	Assistant Professor	Dr. R.D. Urbach	Professor
Dr. W.L. Leong	Assistant Professor	Dr. A. Wei	Assistant Professor

Publications

Aarts MA, Okrainec A, Glicksman A, Pearsall E, Victor JC, McLeod RS. Adoption of enhanced recovery after surgery (ERAS) strategies for colorectal surgery at academic teaching hospitals and impact on total length of hospital stay. *Surgical Endoscopy*. 2012; 26(2): 442-50.

Acuna SA, Angarita FA, Escallon J, Tawil M, Torregrosa L. Determining the use of prophylactic antibiotics in breast cancer surgeries: A survey of practice. *BMC Surg*. 2012 Aug 31;12(1):18.

Adams SV, Ahnen DJ, Baron JA, Campbell PT, Gallinger S, Grady WM, Lemarchand L, Lindor NM, Potter JD, Newcomb PA. Survival after inflammatory bowel disease-associated colorectal cancer in the Colon Cancer Family Registry. *World J Gastroenterol*. 2013 Jun 7;19(21):3241-3248.

- Akbari MR, Anderson LN, Buchanan DD, Clendenning M, Jenkins MA, Win AK, Hopper JL, Giles GG, Nam R, Narod S, Gallinger S, Cleary SP. Germline HOXB13 p.Gly84Glu mutation and risk of colorectal cancer. *Cancer Epidemiol. pii. S1877-7821(13)0003602* 2013 March 26.
- Al-Sukhni W, Joe S, Lionel AC, Zwingerman N, Zogopoulos G, Marshall CR, Borgida A, Holter S, Gropper A, Moore S, Bondy M, Klein AP, Petersen GM, Rabe KG, Schwartz AG, Syngal S, Scherer SW, Gallinger S. Identification of germline genomic copy number variation in familial pancreatic cancer. *Hum Genet.* 2012 Sep 1;131(9): 1481-1494.
- Anderson LN, Cotterchio M, Knight JA, Borgida A, Gallinger S, Cleary SP. Genetic variants in vitamin D pathway genes and risk of pancreas cancer. *PLOS One.* 8.6.e66768. e66768. 2013 Jun 24. PMID: 23826131.
- Arneson N, Moreno J, Iakovlev V, Ghazani A, Warren K, McCreedy DR, Jurisica I, Done SJ. Comparison of whole genome amplification methods for analysis of DNA extracted from microdissected early breast lesions in formalin-fixed paraffin-embedded tissue. *ISRN Oncology.* 2012;710692.
- Austin PC, Urbach DR. Using G-Computation to Estimate the Effect of Regionalization of Surgical Services on the Absolute Reduction in the Occurrence of Adverse Patient Outcomes. *Med Care.* 2013 Jun 13. PMID: 23774518. AID: 10.1097/MLR.0b013e31829a4fb4 [doi].
- Azari-Rad S, Yontef AL, Aleman DM, Urbach DR. Reducing elective general surgery cancellations at a Canadian hospital. *Can J Surg.* 2013 Feb. 56(1):018411-18411. doi: 10.1503/cjs.018411.
- Baxter NN, Sutradhar R, Delguidice ME, Forbes S, Paszat LF, Wilton AS, Urbach D, Rabeneck L. A population-based study of rates of childbirth in recurrence-free female young adult survivors of Non-gynecologic malignancies. *BMC Cancer.* 2013 Jan 23; 13(1):30.
- Bhojani FB, Fox A, Pitzul KB, Wei A, Moulton CA, Okrainec A, Cleary S. Clinical and economic comparison of laparoscopic to open liver resections using a 2 to 1 matched pair analysis: An institutional experience. *Journal of American College of Surgeons.* 2012: 214(2): 184-95.
- Biankin AV, Waddell N, Kassahn KS, Gingras MC, Muthuswamy LB, Johns AL, Miller DK, Wilson PJ, Patch AM, Wu J, Chang DK, Cowley MJ, Gardiner BB, Song S, Harliwong I, Idrisoglu S, Nourse C, Nourbakhsh E, Manning S, Wani S, Gongora M, Pajic M, Scarlett CJ, Gill AJ, Pinho AV, Rومان I, Anderson M, Holmes O, Leonard C, Taylor D, Wood S, Xu Q, Nones K, Fink JL, Christ A, Bruxner T, Cloonan N, Kolle G, Newell F, Pinese M, Mead RS, Humphris JL, Kaplan W, Jones MD, Colvin EK, Nagrial AM, Humphrey ES, Cho. Pancreatic cancer genomes reveal aberrations in axon guidance pathway genes. *Nature.* 2012 Nov 15; 491(7424): 399-405.
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- Chen K, Ahmed S, Adeyi D, Dick JE, Ghanekar A. Human solid tumor xenografts in immunodeficient mice are vulnerable to lymphomagenesis associated with Epstein-Barr virus. *PLoS ONE.* 2012; 7(6): e39294.
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Corrigan M, Alriyees L, Warburton R, Boileau J-F, Holloway C, Wright F, Escallon J, George R, McCready DR. Breast Cancer. *Surgical Oncology Manual*; editors; Cukier M, Gillis A, Escallon J, Wright F; Surgery University of Toronto; 2012; 37 - 58.

Cukier M, Gillis A, Wright F, Petrella T, McCready DR. Cutaneous Melanoma. editors. Cukier M, Gillis, Escallon J, Wright F. *Surgical Oncology Manual*. Toronto: University of Toronto, 2012; pp 95-114.

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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”.

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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 quality metric 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: Guidelines International Network, Berlin, Berlin, Germany, August 2012. Speaker: 1/ Prioritizing components of guideline implementability tools. (1.5 hour workshop). 2/ Development and evaluation of guideline implementability tools. 3/ Exploring optimal conditions for knowledge exchange in the Guideline Implementability Research and Application Network.

Gagliardi A: Royal College of Physicians and Surgeons of Canada Maintenance of Competence Strategic Planning Conference, Canada, 4 December 2012. Speaker: Review of strategies 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, Steven: The Nigel Rusted Lecture on the History of Surgery- Memorial university of Newfoundland, St. John’s, Newfoundland and Labrador, Canada, 2 November 2012. Invited Lecturer: Allen Oldfather Whipple and Walther Kausch Would be Proud: The History of the Whipple Operation and the Success of Cancer Surgery Regionalisation.

Gallinger S: Resident Research Day, Memorial university of Newfoundland, St. John’s, Newfoundland and Labrador, Canada, 3 November 2012. Invited Lecturer: Pancreas Cancer Genetics. On the Brink of Translational Impact.

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: Southeastern Surgical Congress, Jacksonville, Florida, United States, 11 February 2013. Invited Lecturer: A. HAMBLIN LETTON LECTURE - Pathways to Fellowships in HPB - Negotiating the Maze.

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

Greig P: E-AHPBA Congress, Belgrade, Serbia, 30 May 2013. Invited Speaker: Living Donor Liver Transplant - North America.

Jackson T: Canadian Surgery Forum, CAGS Postgraduate Course, Calgary, Alberta, Canada, 13-15 September 2012. Speaker: 1/ Early Postoperative Complications – Getting (and staying) Out of Trouble Postgraduate Course. 2/ Tips and Tricks for the Laparoscopic Management of Gastric GIST.

Jackson T: Western University, London, Ontario, Canada, 11 October 2012. Visiting Professor: SAGES Resident Workshop in Basic Laparoscopy and Endoscopy.

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

McCready D: Boston, Massachusetts, United States, 2012. Invited Speaker: Gattuso Rapid Diagnostic: Transforming the Diagnostic Experience Leading Systems Network Symposium.

Moulton C-A: American College of Surgeons (ACS) Annual Clinical Congress, Chicago, Illinois, United States, 2 October 2012. Distinguished Speaker: Peeking behind the curtain: Surgical judgment beyond cognition. 2012 Annual Olga Jonasson lecture.

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

Moulton C-A: Royal College of Physicians and Surgeons of Canada, International Conference on Surgical Education and Training (ICOSET), Canada, 18 October 2012. Speaker: Slowing down when you should: A model of expert surgical judgment.

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 Pancreato Biliary 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: The University of Western Ontario, Schulich School of Medicine and Dentistry, London, Ontario, Canada, 20 March 2013. Invited Lecturer: 1/ Peeking Behind the Curtain: Surgical Judgment Beyond Cognition Department of Surgery Grand Rounds. 2/ Peeking Behind the Curtain: Surgical Judgment Beyond Cognition Colloquia at the Centre for Education Research and Innovation.

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.

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

Okraïnec 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 Reconstruction - What's New in 2012. 3/ Debates in Minimally Invasive Surgery.

Okraïnec A: Canadian Association of Bariatric Physicians and Surgeons, Canadian Surgical Forum, Calgary, Alberta, Canada, 15 September 2012. Invited Speaker: New Surgical Frontiers in Bariatric Surgery.

Okraïnec, Allan: King Fahad Medical City, Riyadh, Ar Riy , Saudi Arabia, 16-17 September 2012. Invited Speaker: 1/ Intraoperative Considerations of Laparoscopic Surgery. 2/ Fundamentals of Laparoscopic Surgery Hands-On Course.

Penner T: DaVita, Manteca, California, United States, 29 August 2012. Invited Speaker: Best Practices in PD Access Surgery.

Penner T: International Society of Peritoneal Dialysis, Valley Forge, Pennsylvania, United States, 15 October 2012. Lecturer: PD University for Surgeons Salvage procedures for Infectious and Mechanical Complications (of Peritoneal Dialysis).

Penner T: DaVita, Dallas, Texas, United States, 7 February 2013. Invited Lecturer: Best Practices in PD Access Surgery Annual Physicians Leadership meeting.

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, Memphis, Tennessee, United States, 1 May 2013. Invited Speaker: What's New in PD Access Surgery Update to practicing surgeons.

Penner T: DaVita, Atlanta, Georgia, United States, 2 May 2013. Invited Speaker: What's New in PD Access Surgery.

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

Penner T: Advanced Renal Education Program - Fresenius, New York, New York, United States, 19 October 2012. Invited Speaker: Advances in Peritoneal Dialysis Access Surgery.

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

Penner T: Fresenius, Salisbury, Maryland, United States, 9 May 2013. Invited Speaker: New concepts in PD Access Review for practicing surgeons.

Penner T: DaVita, Asheville, North Carolina, United States, 6 June 2013. Invited Speaker: PD Access Surgery.

Penner T: DaVita, Philadelphia, Pennsylvania, United States, 7 June 2013. Invited Speaker: PD access Surgery - New and Improved.

Penner T: DaVita, Irvine, California, United States, 13 June 2013. Invited Speaker: Best Practices in PD Access Surgery.

Penner T: DaVita, Chicago, Illinois, United States, 17 June 2013. Invited Speaker: Best Practices in PD Access Surgery.

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

Queresby 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: Toronto Cancer Conference, Toronto, Ontario, Canada, 23 November 2012. Invited Speaker: Looking for a place to happen: Oncotype DX.

Reedijk M: 6th Annual Canadian Cancer Immunotherapy Consortium Symposium, Toronto, Ontario, Canada, 6 June 2013. Invited Speaker: Notch in breast cancer microenvironment crosstalk.

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

Urbach DR: Canadian Surgery Forum, Canadian Assembly of General Surgeons, Calgary, Alberta, Canada, 13 September 2012. Presenter: Bariatric debate: The best operation for type 2 diabetes is Roux-en-Y gastric bypass.

Urbach DR: Canadian Assembly of General Surgeons, Calgary, Alberta, Canada, 14 September 2012. Presenter: Effects of ageing on cognition and technical ability Canadian Surgery Forum.

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

Urbach DR: American College of Surgeons, Chicago, Illinois, United States, 8 November 2012. Presenter: Data Synthesis/Meta-Analysis 5th Annual ACS Outcomes Research Course.

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

Wei A: CAGS, Calgary, Alberta, Canada, 15 September 2012. Presenter: 1/ Quality improvement in GI cancer surgery – Expert panel recommendations for priority research areas. 2/ A scoping review of surgical process improvement tools (SPITs) in cancer surgery. 3/ Resection of multi-site metastases from colorectal cancer: feasibility and interim results of a multi-centre prospective phase II study.

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.

Wei A: Canadian Association of General Surgery Review Course 2013, Toronto, Ontario, Canada, 7 April 2013. Speaker: Pancreatitis Review Lecture: Pancreatitis.

Research and Investigations

ACOSOG Z5041. Phase II study of preoperative gemcitabine and erlotinib plus pancreatectomy for patients with operative pancreatic adenocarcinoma. Pisters P, Wei AC, Moore M: ACOSOG. (\$9000 2010 - present).

A Multi-Institutional Phase II Study of Neoadjuvant Gemcitabine and Oxaliplatin with Radiation Therapy in Patients with Pancreatic Cancer. (Site Investigator). Zalupski Z, Dawson L, Wei AC, Ringash J: Sanofi Aventis. (2008 - present).

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

Assessing consistency of ‘slowing down’ moments in surgical expertise. Moulton CA, Gallinger S, MacRae H, Sonnadara R: Medical Council of Canada (MCC). (\$35,739 2012 - 2013).

Assessment of Risk for Colon Tumors in Canada (ARCTIC). Zanke B, Hudson T, Gallinger S, and 8 others. Ontario Research Fund (ORF). (\$2,200,000 2010 - 2013).

Association between allergy history, immunologic genetic variants and pancreatic cancer risk. Cotterchio M, Gallinger S, Greenwood C: Canadian Institutes of Health Research (CIHR). (\$625,293 2010 - 2013).

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

Biliary Complications after Paediatric Liver Transplantation: Incidence, Impact and Opportunities for Improvement. Ghanekar A, Binita K. Ashley’s Angels Foundation, Liver Transplant Research. (\$8,616 2012 - 2013).

Development of a decision support tool in post-mastectomy breast reconstruction surgery. Hofer S, Butler K, Zhong T, McCready DR, Metcalfe K: Canadian Institutes of Health Research (CIHR). (\$100,000 2012 - 2013).

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

Enhancing inter-professional collaborative care for cancer: Evaluation of diagnostic assessment programs. Gagliardi AR, Stuart-McEwan T, Gilbert J, Dobrow M, Hoch J, Wright FC, Brouwers MC, Meertens E, Kaan M, Campbell B, McCready DR, Waddell T, McKnight S, Lacourciere J, McFadyen C, Berry M, Kaune S, Doiron G: Canadian Breast Cancer Foundation (CBCF). (\$431,306, 2012 - 2015).

Evaluating quality improvement interventions in colorectal cancer surgery in Ontario. Simunovic M, Baxter N, Brouwers M, Earle C, Forbes S, Smith A, Stukel T, Urbach D. Canadian Institutes of Health Research (CIHR). (\$619,014 2012 - 2015).

Exome sequencing of familial colorectal cancer type X. McPherson J, Woods M: Canadian Cancer Society Research Institute (CCSRI). (\$419,240 2011 - 2014).

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).

High resolution genetic analysis of genetic loci implicated in colorectal cancer. Hudson T, Gallinger S, Lemire M, Peltekova V: Canadian Institutes of Health Research (CIHR). (\$798,539 2010 - 2015).

Identification and Characterization of Tumour-Initiating Cells in Primary Human Hepatocellular Carcinoma. Ghanekar A, Dick J. Cancer Research Society. (\$118,580 2012 - 2014).

Identifying Inherited Pancreas Cancer Genes. Gallinger S. W. Garfield Weston Foundation. (\$600,000 2012 - 2015).

Implementation and evaluation of a comprehensive surgical quality improvement program in an Ontario academic hospital. Jackson TD, Urbach D, Rotstein L, Okrainec A. Ontario Ministry of Health and Long-Term Care. (\$192,840 2011 - 2013).

Implementing an Enhanced Recovery after Surgery Guideline to Optimize Outcomes following Colorectal Surgery. McLeod R, Okrainec A, Aarts MA, Gotlib L, McKenzie M, Saddiqui NT. Council of Academic Hospitals of Ontario (CAHO). (\$1241361.33 2013 - 2014).

Intestinal Microbiota in Non-Alcoholic Fatty Liver Disease Associated with Morbid Obesity. Allard JP, Comelli E, Gloor G, Jackson TD, Okrainec A, Lou W. Canadian Institutes of Health Research (CIHR). (\$522,169 2013 - 2016).

Long-term Physical and Psychological Outcomes in Colorectal Cancer Survivors. Hart S, Baxter N, Cotterchio M, Gallinger S. Canadian Institutes of Health Research. (\$144,487 2012 - 2014).

Judgements and health innovation: How do upstream knowledge transfer and exchange among stakeholders contribute to the design of innovations. Lehoux P, Denis J, Miller F, Urbach DR, Williams-Jones B. Canadian Institutes of Health Research (CIHR). (\$528,453 2010 - 2013).

Metformin use and prostate cancer incidence and mortality: A novel approach to prostate cancer prevention. Fleshner N, Bell C, Lipscombe L, Urbach DR. Canadian Cancer Society Research Institute. (\$160,782 2011 - 2013).

Multicentre Evaluation of a Novel Technique of Analgesia Following Open Liver Resection: Midline Open Transversus Abdominis Plane (MOTAP) Catheters. Clarke H, Karanicolas P, McCluskey S, Ko R, Cleary S, McHardy P, Katz J, Ladak S, Sawyer J, Law C, Ki A: AFP Innovation Fund, MOH UHN AFP. (\$126,949 2013 - 2015).

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).

Pan-Canadian Colorectal Cancer Consortium. Gallinger S, Batist G, Gryfe R, Pollett A, Baster N. Terry Fox Research Institute. (\$671,616 2012 - 2014).

Pancreatic Cancer Linkage Consortium. Petersen G, Gallinger S, and 26 other investigators. National Institutes of Health (NIH) (USA). (\$400,000 2008 - 2013).

Pharmacogenetic Study of Gemcitabine in Pancreatic Cancer: Analysis of Clinical and Observational Trials. Cleary SP: Ontario Institute for Cancer Research. (\$303,812 2011 - 2013).

Phase I pharmacodynamic and high content study of the gamma-secretase inhibitor RO4929097 in patients with recurrent malignant gliomas (MGs) targeting p75NTR to inhibit brain tumour initiating cells (BTICs) and recurrent invasive gliomas. Forsythe P, Chen E, Easaw J, Hamilton M, Mason W, Oza A, Reedjik M, Roldan G, Senger D, Wang L, Zadeh G: Alberta Cancer Research Institute. (\$27,155 2010 - 2013).

Preoperative prediction of microvascular invasion in hepatocellular carcinoma by blood oxygenation level dependent magnetic resonance imaging. Cleary SP: Canadian Liver Foundation. (\$119,450 2011 - 2013).

Pressures on surgeons to “measure up” with their effects on surgical judgement. Moulton CA, Matimianakis T, Kitto S, Murnaghan L. Physicians Services Incorporated Foundation (The) (PSI). (\$98,500 2011 - 2013).

Programmatic Redesign: Realigning Health Resources using Mathematical Modeling in the UHN Bariatric Multidisciplinary Program. Quereshy F, Milner J, Jackson T, Okrainec A. Ontario Ministry of Health and Long-Term Care (\$180,400 2013 - 2015).

Rapid genetic testing for BRCA1 and BRCA2 in newly diagnosed breast cancer patients. Metcalf K, Narod SA, Eisen AF, Akbari M, Kiss A, Wright F, Chun K, McCready DR, Cil T, McGillis Hall L. Canadian Institutes of Health Research (CIHR). (\$1,607,195 2013 - 2018).

Stem Cell Models of Alagille Syndrome: Biliary Disease in a Dish. Ghanekar A, Kamath B. National Institutes of Health (NIH)/National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), ChiLDREN Consortium. (\$25,000, 2012 - 2013).

Storage, Assessment, and Repair of Liver Grafts for Transplantation Using Ex Vivo Liver Perfusion. Selzner M: Astellas Pharma Inc., Astellas Academic Enrichment Fund. (\$100,000 2010 - 2012).

Structures and Processes of Care in Colorectal Cancer Surgery (SPoCCS) Study. Urbach DR, Simunovic M, Baxter N, Sutradhar R, Lix LM. Canadian Institutes of Health Research (CIHR). (\$1,084,151 2008 - 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).

The Genetics of Hereditary Upper Gastrointestinal Cancers: Beyond CDH1 Germline Mutations. Huntsman D, Gallinger S, Schaefer D, Schrader K, Shah S, Zogopoulos G. Canadian Institutes of Health Research (\$932,334 2012 - 2017).

The reliability of remote FLS certification using web-based technology. Okrainec A, Vassiliou M, Rittner M, Jackson TD. Center for Excellence in Surgical Education, Research and Training. (\$22,377 2012 - 2013).

Utilization and effectiveness of existing cardiac rehabilitation programs for patient pre and post bariatric surgery. Alter D, Oh P, Forhan M, Urbach D, Third D, Kmil C, Jackson TD, Sockalingam S. Ontario Ministry of Health (\$52,200 2012 - 2013).

Validation and fine-mapping of pancreatic cancer susceptibility Loci. Klein A, Petersen G, Brennan P, Bracci P, Risch H, Gallinger S et al. National Institutes of Health (NIH) (USA). (\$761,032 2011 - 2015).

Visual imagery and mental rehearsal in surgery. Cil T, Moulton CA, Murnaghan L. Physicians Services Incorporated Foundation (The) (PSI). (\$13,500 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. A.M. Lozano	Professor
Dr. K.D. Davis	Professor	Dr. E. Massicotte	Associate Professor
Dr. J.H. Eubanks	Professor	Dr. M. Shamji	
Dr. M. Fehlings	Professor	Dr. C.H. Tator	Professor
Dr. F. Gentili	Professor	Dr. M. Tymianski	Professor (Division Head)
Dr. C. Hamani	Assistant Professor	Dr. T. Valiante	Assistant Professor
Dr. M. Hodaie	Associate Professor	Dr. A. Velumian	Assistant Professor
Dr. W.D. Hutchison	Associate Professor	Dr. G. Zadeh	Assistant Professor

Publications

Aarabi B, Harrop JS, Tator CH, Alexander M, Dettori JR, Grossman RG, Fehlings MG, Mirvis SE, Shanmuganathan K, Zacherl KM, Burau KD, Frankowski RF, Toups E, Shaffrey CI, Guest JD, Harkema SJ, Habashi NM, Andrews P, Johnson MM and Rosner MK. Predictors of pulmonary complications in blunt traumatic spinal cord injury. *J Neurosurg Spine*. 2012 Sep;17(1 Suppl):38-45.

Agnihotri S, Burrell KE, Wolf A, Jalali S, Hawkins C, Rutka JT, Zadeh G. Glioblastoma, A Brief Review of History, Molecular Genetics, Animal Models and Novel Therapeutic Strategies. *Arch Immunol Ther Exp (Warsz)*. 2013 Feb;61(1):25-41.

Alahmadi H, Lee D, Wilson JR, Hayhurst C, Mete O, Gentili F, Asa SL, Zadeh G. Clinical Features of Silent Corticotroph Adenomas. *Acta Neurochir (Wien)*. 2012 Aug;154(8):1493-8.

Alavi M, Dostrovsky JO, Hodaie M, Lozano AM, Hutchison WD. Spatial extent of beta oscillatory activity in and between the subthalamic nucleus and substantia nigra pars reticulata of Parkinson's disease patients. *Exp Neurol*. 2012 Oct 9. PMID: 23063495. AID: doi:pii: S0014-4886(12)00386-X. 10.1016/j.expneurol.2012.09.021.

Aleksandrova LR, Creed MC, Fletcher PJ, Lobo DS, Hamani C, Nobrega JN. Deep brain stimulation of the subthalamic nucleus increases premature responding in a rat gambling task. *Behav Brain Res*. 2013 May 15;245:76-82.

Al-Omair A, Smith R, Kiehl TR, Lao L, Yu E, Massicotte EM, Keith J, Fehlings MG, Sahgal A. Radiation-induced vertebral compression fracture following spine stereotactic radiosurgery: clinicopathological correlation. *J Neurosurg Spine*. 2013 May;18(5):430-5.

Anderson PA, Andersson GB, Arnold PM, Brodke DS, Brodt ED, Chapman JR, Chou D, Dekutoski M, Dettori JR, DeVine JG, Ely CG, Fehlings MG, Fischer DJ, Fourny DR, Hansen MA, Harrod CC, Hashimoto R, Hermsmeyer JT, Hilibrand AS, Kasliwal MK, Kelly MP, Kim HJ, Kraemer P, Lawrence BD, Lee MJ, Lenke LG, Norvell DC, Raich A, Riew KD, Shaffrey CI, Skelly AC, Smith JS, Standaert CJ, Van Alstyne EM, Wang JC. Terminology. *Spine (Phila Pa 1976)*. 2012 Oct 15;37(22 Suppl):S8-9.

Austin JW, Afshar M, Fehlings MG. The relationship between localized subarachnoid inflammation and parenchymal pathophysiology after spinal cord injury. *J Neurotrauma*. 2012 Jul 1;29(10):1838-49.

Arvin B, Kalsi-Ryan S, Mercier D, Furlan JC, Massicotte EM, Fehlings MG. Pre-Operative MRI Imaging is Associated With Baseline Neurological Status and Can Predict Postoperative Recovery in Patients With Cervical Spondylotic Myelopathy. *Spine (Phila Pa 1976)*. 2013 Mar 4. PMID: 23462574. AID: 10.1097/BRS.0b013e31828e23a8 [doi].

Austin JW, Gilchrist C, Fehlings MG. High molecular weight hyaluronan reduces lipopolysaccharide mediated microglial activation. *J Neurochem*. 2012 Jul;122(2):344-55.

Barr MS, Frazan F, Davis KD, Fitzgerald PB, Daskalakis ZJ. Measuring GABAergic Inhibitory Activity with TMS-EEG and Its Potential Clinical Application for Chronic Pain. *Journal of Neuroimmune Pharmacology*. 2013 Jun;8:535-546.

Burke MJ, Chundamala J, Tator CH. Deficiencies in concussion education in Canadian medical schools. *Can J Neurol Sci*. 2012 Nov;39(6):763-6.

- Burrell K, Agnihotri S, Leung M, Dacosta R, Hill R, Zadeh G.** A Novel High-resolution In vivo Imaging Technique to Study the Dynamic Response of Intracranial Structures to Tumor Growth and Therapeutics. *J Vis Exp.* 2013 Jun 16;(76). doi: 10.3791/50363. PMID: 23793043. AID: 10.3791/50363 [doi].
- Cadotte DW, Bosma R, Mikulis D, Nugaeva N, Smith K, Pokrupa R, Islam O, Stroman PW, Fehlings MG.** Plasticity of the injured human spinal cord: insights revealed by spinal cord functional MRI. *PLoS One.* 2012;7(9):e45560. doi: 10.1371/journal.pone.0045560. Epub 2012 Sep 19. PMID: 23029097.
- Cadotte DW, Stroman PW, Mikulis D, Fehlings MG.** A systematic review of spinal fMRI research: outlining the elements of experimental design. *J Neurosurg Spine.* 2012 Sep;17(1 Suppl):102-18.
- Caicco MJ, Zahir T, Mothe AJ, Ballios BG, Kihm AJ, Tator CH, Shoichet MS.** Characterization of hyaluronan-methylcellulose hydrogels for cell delivery to the injured spinal cord. *J Biomed Mater Res A.* 2013 May;101(5):1472-7.
- Castelo-Branco P, Choufani S, Mack S, Gallagher D, Zhang C, Lipman T, Zhukova N, Walker EJ, Martin D, Merino D, Wasserman JD, Elizabeth C, Alon N, Zhang L, Hovestadt V, Kool M, Jones DT, Zadeh G, Croul S, Hawkins C, Hitzler J, Wang JC, Baruchel S, Dirks PB, Malkin D, Pfister S, Taylor MD, Weksberg R, Tabori U.** Methylation of the TERT Promoter and Risk Stratification of Childhood Brain Tumours: An Integrative Genomic and Molecular Study. *Lancet Oncol.* 2013 May;14(6):534-42.
- Chapman J, Smith JS, Kopjar B, Vaccaro AR, Arnold P, Shaffrey CI, Fehlings MG.** The AOSpine North America Geriatric Odontoid Fracture Mortality Study: A Retrospective Review of Mortality Outcomes for Operative Versus Nonoperative Treatment of 322 Patients With Long-Term Follow-up. *Spine (Phila Pa 1976).* 2013 Jun 1;38(13):1098-104.
- Choi D, Morris S, Crockard A, Albert T, Bunger C, Fehlings M, Harrop J, Kawahara N, Martin A, Massicotte EM, Mazel C, Oner FC, Peul W, Tomita K, Wang M.** Assessment of quality of life after surgery for spinal metastases. Position statement of the Global Spine Tumour Study Group. *World Neurosurg.* 2013 Feb 16. pii: S1878-8750(13)00339-2. doi: 10.1016/j.wneu.2013.02.054.
- Chow DS, Teng Y, Toups EG, Aarabi B, Harrop JS, Shaffrey CI, Johnson MM, Boakye M, Frankowski RF, Fehlings MG, Grossman RG.** Pharmacology of riluzole in acute spinal cord injury. *J Neurosurg Spine.* 2012 Sep;17(1 Suppl):129-40.
- Chung C, Jalali S, Foltz W, Burrell K, Wildgoose P, Lindsay P, Graves C, Camphausen K, Milosevic M, Jaffray D, Zadeh G, Menard C.** Imaging Biomarker Dynamics in An Intracranial Murine Glioma Study of Radiation and Antiangiogenic Therapy. *Int J Radiat Oncol Biol Phys.* 2013 Mar 1;85(3):805-12.
- Cook DJ, Teves L, Tymianski M.** A Translational paradigm for the preclinical evaluation of the stroke neuroprotectant Tat-NR2B9c in gyrencephalic nonhuman primates. *Science Translational Medicine.* *Science Translational Medicine* 2012 Oct 3:4(154).
- Creed MC, Hamani C, Nobrega JN.** Early gene mapping after deep brain stimulation in a rat model of tardive dyskinesia: Comparison with transient local inactivation. *Eur Neuropsychopharmacol.* 2012 Jul;22(7):506-17.
- Creed MC, Hamani C, Bridgman A, Fletcher PJ, Nobrega JN.** Contribution of decreased serotonin release to the antidyskinetic effects of deep brain stimulation in a rodent model of tardive dyskinesia: comparison of the subthalamic and entopeduncular nuclei. *J Neurosci.* 2012 Jul 11;32(28):9574-81.
- Cunha MV, Al-Omair A, Atenafu EG, Masucci GL, Letourneau D, Korol R, Yu E, Howard P, Lochray F, da Costa LB, Fehlings MG, Sahgal A.** Vertebral compression fracture (VCF) after spine stereotactic body radiation therapy (SBRT): analysis of predictive factors. *Int J Radiat Oncol Biol Phys.* 2012 Nov 1;84(3):e343-9.
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- Davis KD, Racine E, Collett B.** Neuroethical issues related to the use of brain imaging: Can we and should we use brain imaging as a biomarker to diagnose chronic pain? *Pain.* 2012; 153: 1555-1559.
- Davis KD.** Is chronic pain a disease? Evaluating pain and nociception through self report and neuroimaging. *Journal of Pain.* 2013; 14 : 332-333.
- de Almeida JR, Vescan AD, Gullane PJ, Gentili F, Lee JM, Lohfeld L, Ringash J, Thoma A, Witterick IJ.** Development of a disease-specific quality-of-life questionnaire for anterior and central skull base pathology—the skull base inventory. *Laryngoscope.* 2012 Sep;122(9):1933-42.

de Almeida JR, Witterick IJ, Gullane PJ, Gentili F, Lohfeld L, Ringash J, Thoma A, Vescan AD: Quality of life instruments for skull base pathology: systematic review and methodologic appraisal. *Head Neck*. 2013 Sep;35(9):1221-31.

DeSouza DD, Moayedi M, Chen DQ, Davis KD, Hodaie M. Sensorimotor and pain modulation brain abnormalities in trigeminal neuralgia: a paroxysmal, sensory-triggered neuropathic pain. *PLoS One*. 2013 Jun;8(6): e66340.

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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: Canadian Sports Concussion Project, Toronto, Ontario, Canada, November 2012. Invited Lecturer: Imaging of Concussions Conference on Concussions and CTE - Latest Research Developments.

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.

Davis KD: American Spinal Injury Association annual meeting: workshop on Quantifying sensory changes after spinal cord injury: new approaches to understand pain, Chicago, Illinois, United States, May 2013. Invited Speaker: Brain plasticity associated with chronic pain: evidence from assessment of gray matter, white matter, and functional connectivity.

Davis KD: 4th International Congress on Neuropathic Pain: Neuropathic Pain (Special Interest Group of IASP), Toronto, Ontario, Canada, May 2013. 1/ Speaker: Brain abnormalities and neuropathic pain in ankylosing spondylitis workshop talk. 2/ Speaker: What are the signatures/biomarkers of neuropathic pain? Insights from human brain imaging studies. 3/ Chair: Workshop: What does brain imaging tell us about neuropathic pain? 4/ Speaker: Mechanisms of Neuropathic Pain: Insights From Animal and Human Research: A Tribute to Jonathan O. Dostrovsky: Highlights of Jonathan Dostrovsky's Career.

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

Gentili F: International Neurosurgical Forum, August 3-5, 2012 Lanzhou, China. Invited Speaker: Endoscopic Pituitary Surgery-state of the art and standard of care

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

Visiting Professor

Gentili F: Indonesian Society of Neurological Surgeons 17th Annual meeting, Medan, Sumatra, Nov 26-29, 2012. Master Class Presentation: Lecture and video session. Keynote Speaker: (1) State of the Art in Pituitary Surgery, (2) Endoscopic Skull Base Surgery.

Gentili F: 11th Asian-oceanian International Congress on Skull Base Surgery, October 27-28, 2012. 1/ Invited Speaker: Moderator: Session on Craniopharyngiomas 2/ Plenary Presentation: Endoscopic skull base surgery: current indications and limitations

Gentili F: Congress of Neurological Surgeons, Annual Meeting, October 6-10, 2012, Chicago, IL. Invited Speaker: Luncheon seminar: Panelist, Skull Base Endoscopy: Utility and limitations.

Gentili F: Brain Tumour Foundation of Canada, October 13, 2012, London, ON. Invited Speaker: Benign Tumours of the Brain

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

Gentili F: 8th International Congress on Meningiomas and the cerebral venous system. 3rd International Symposium on the Cavernous Sinus, November 4-7, 2012. Little Rock, Arkansas. Invited Speaker: Frontal Meningiomas

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: Ottawa Neurosurgery review course, February 2, 2013. Invited Speaker: 1/ Anterior Skull Base meningiomas: indications for open and endoscopic approaches. 2/ The management of chordomas.

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

Gentili F: Annual meeting of the American Association of Neurological Surgeons April 27- May 1st, 2013, New Orleans, LA. Invited Faculty: Breakfast Seminar: Open vs endoscopic approaches to the skull base.

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

11th International Stereotactic Radiosurgery Society Congress (ISRS) June 16-18, 2013, Toronto, Ontario, Canada. Invited Speaker: The impact of Radiosurgery on skull base surgery.

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: Annual Meeting of the American Academy of Neurology, San Diego, United States, March 2013. Invited Speaker: Deep brain stimulation and Affective Disorders: Translational aspects.

Hamani C: Baycrest annual meeting, Toronto, Canada, March 2013. Invited Speaker: Neuromodulation: Translational aspects of Deep brain stimulation in depression: Translational aspects.

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.

Hamani C: World Society for Stereotactic and Functional Neurosurgery, Tokyo, Japan, May 2013. Invited Speaker: 1/ Area 25. 2/ Subgenual Region (BA25).

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: World Federation of Neurosurgical Society Workshop and Educational Course. University of Pelita Harapan (UPH), Lippo Karawaci, Jakarta Raya, Indonesia, January 2013. Speaker: 1/ Surgical Management of trigeminal neuralgia. 2/ Approach to surgical treatment of movement disorders and pain.

Hodaie M: Cambodian Society of Neurosurgery, Phnom Penh [Phnum Pénh], Cambodia, January 2013. Speaker: 1/ Surgical Management of Trigeminal Neuralgia. 2/ Approach to surgical treatment of movement disorders and pain.

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: VII Centroamerican Congress of Neurosurgery/II Congress of Neurosurgery, WFNS Educational Course, San José, Costa Rica, March 2013. Speaker: 1/ Approach to Surgical Treatment of Movement Disorders. 2/ Surgical Management of Trigeminal Neuralgia.

Hodaie M: University of Limpopo, Polokwane, South Africa, April 2013. Speaker: Surgery in Africa: Strategies to address an ignored necessity. Inauguration of The Advancement of Science in Africa.

Hodaie M: 4th International Congress on Neuropathic Pain, Toronto, Ontario, Canada, May 2013. Speaker: Structural brain imaging can aid in the neurosurgical diagnosis and treatment of pain.

Hodaie M: 16th Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, Tōkyō [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: CBC News, Journal of Science, Ontario, Canada, June 2013. Quote in article "Atlas for Neurosurgeons".

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.

Massicotte E: Chicago, Illinois, United States, 13 September 2012. Invited Speaker: Course Chairman - Bellabara, C & Pritchard, P Director - Choma, T Controversies in Complex Spine Surgery: A comprehensive Hands-on Human Anatomic Specimen Course for Fellows.

Tymianski M: Combined Mtg of the Annual Conference of Indian Society of Cerebrovascular surgery, Mumbai, Unknown, India, 21-23 September 2012. Invited Speaker: 1/ Treatment of ischemic brain damage in patients sustaining procedurally-induced strokes. 2/ Outpatient aneurysm surgery for unruptured brain aneurysms. 3/ Treatment of complex brain aneurysms with ELANA laser bypass.

Tymianski M: 2012 International Conference of Neurological Disorders: from molecular neurobiology to clinical therapy, Wuhan, China, 27 September 2012. Invited Speaker: Treatment of ischemic brain damage using PSD95 inhibitors.

Tymianski M: 2012 Canadian Stroke Congress Meeting, Calgary, Alberta, Canada, 30 September 2012. Distinguished Speaker: From molecular mechanisms to multi-center clinical trials: translation of a PSD95 inhibitor for the treatment of acute ischemic stroke.

Tymianski M: Bern Chicago Cerebral Revascularization and Endovascular Course, Chicago, Illinois, United States, 3 October 2012. Invited Speaker: 1/ Long vein/radial artery EC-IC Bypass, step by step nuance. 2/ ELANA vs conventional long vein bypass.

Tymianski M: Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, United States, 6 October 2012. Invited Speaker: Open aneurysm surgery; a 3-D practical course.

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: Canadian Cardiovascular Congress 2012, Toronto, Ontario, Canada, 28 October 2012. Invited Speaker: Neurovascular Interventions: State-of-the-art.

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.

Valiante T: Eastern Association of Electroencephalography, Brooklyn, New York, United States, 15 February 2013. Invited Speaker: Optogenetic manipulation of inhibitory interneuronal activity in an acute model of epilepsy: Creating and modifying critical state transitions.

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: Society for Neuro-Oncology Annual Meeting, Washington, District of Columbia, United States, November 2012. Chair: Sunrise Session.

Zadeh G: 22nd Annual North American Skull Base Society, Miami, Florida, United States, February 2013. Speaker: 1/ Does Natural History of Vestibular Schwannomas Govern Treatment Response and Complications to Radiosurgery. 2/ Institutional Review and Identification of Indications for Endoscopic Expanded versus Craniotomy Approach to Anterior Skull Base Meningiomas. 3/ Role of ADAMTS4 in Meningioma Bone Invasion. 4/ Endoscopic Endonasal Transphenoidal Approach to Giant Pituitary Adenomas: Institutional Experience and Predictors of Extent of Resection.

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

AOSpine North America Fellowship Program, 2-year merit award. Massicotte EM, Rampersaud YR, Lewis S: AOSpine North America. (\$150,000 2011 - 2013).

Differential gene expression in the non-human primate and rat: whole genome differential gene expression in the immediate-early phase following stroke. Tymianski M: PSI Foundation. (\$20,000 2010 - 2013).

Diffusion tensor imaging as an in vivo technique to study the effects of chronic pain and its impact on the brain. Davis K, Crawley A, Mikulis D. Canadian Institute of Health Research (CIHR). (\$651,814 2013 - 2018).

Dopamine and synaptic plasticity in human substantia nigra pars reticulata. Hutchison WD, Dostrovsky JO, Hodaie M, Lozano AM, Moro E. Canadian Institutes of Health Research (CIHR). (\$490,745 2009 - 2014).

Epilepsy brain state classification, assessment, and modulation. Carlen PL, Bardakjian BL, Valiante TA. Ontario Brain Institute. (\$87,585 2011 - 2013).

Health Applications of Cell Signaling in Mucosal Inflammation & Pain. McCulloch ER, Brumell J, Cvitkovitch D, Davis KD, Finlay B, Fish E, Glogauer M, Jadad A, Jones N, Maksym G, Manolson M, Overall C, Philpott D, Santerre P, Sessle B, Sherman P, Vergnolle N. Canadian Institutes of Health Research (CIHR). (\$1,950,000 2009 - 2015).

Imaging and tractography of cranial nerves surrounding posterior fossa tumours and application in radiosurgery. Jaffray D, Hodaie M, Lindsay P, Weersnik R, Cho YB. MITACS - Precision X-ray/Elekta Industry partners. Techna Guided Therapeutics Cluster. (\$306666.59 2013 - 2015).

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

Neural Development and Repair Network (NeuroDevNet). Goldowitz D, Fehlings MG, et al (over 70 names). Networks of Centres of Excellence (NCE). (\$19,572,000 2009 - 2014).

Neuroimaging correlates of pain in Multiple Sclerosis. Davis KD, O'Connor P. Multiple Sclerosis Society of Canada. (\$295,302 2013 - 2016).

Neuropsychological outcomes after anterior skull base surgery. Zadeh G. Allied Health Research Award. (\$20,000 2012).

Non-invasive treatment of paediatric neurological disorders using MR-focused ultrasound (MRgFUS). Drake J, Hodaie M, Looi T, Waspe A, Donner E, deVeber G, Tam E, Pichardo S. Brain Canada/The W. Garfield Weston Foundation Multi-Investigator Research Initiative (MIRI). (\$1,500,000 2013 - 2016).

Pain-Attention Interactions and the Descending Pain Modulation System. Davis KD. Canadian Institutes of Health Research (CIHR). (\$626,420 2010 - 2015).

Pathomechanisms in the Development of Pain Hypersensitivity in Disc-Herniation Radiculopathy. Shamji MF, Salter MW. AO Spine North America, Young Investigator Grant Research Award. (\$30,000 2013 - 2014).

Pathophysiological mechanisms of dystonia: insights from deep brain stimulation and brain plasticity. Chen R, Hodaie M, Moro E, Wong A, Jog M, Neagu B, Lozano AM, Udupa K. Canadian Institute of Health Research. (\$1,047,605 2012 - 2017).

Pathophysiology of Parkinson's Disease. Chen R, Hodaie M, Lozano A, Moro E. Canadian Institutes of Health Research (CIHR). (\$949,900 2009 - 2014).

Preclinical Evaluation of Azole in Regulating GBM Metabolism. Zadeh G. Adam Coules Research Grant. (\$50,000 2013).

Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries. Davis KD, Anastakis DJ, Katz J. Workplace Safety and Insurance Board (WSIB). (\$348273 2011 - 2015).

Prognostic pathway-centric signatures in glioblastoma multiforme. Zadeh G. Canadian Cancer Society Research Institute (CCSRI). (\$184,980 2013 - 2014).

Regulation and function of kallikreins in spinal cord injury and repair. Scarisbrick IA, Blaber M, Fehlings MG. National Institutes of Health (NIH) (USA). (\$1,654,708 2008 - 2013).

Role of Bone Marrow Derived Progenitor Cells in Brain Tumor Neovascularization. Zadeh G, Hill R. Canadian Institute of Health Research. (\$385,251 2012 - 2015).

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

Role of Nilotinib on inhibiting growth of vestibular schwannoma. Zadeh G, Laperriere N. Ontario Institute for Cancer Research and Novartis. (\$538,000 2010 - 2014)

Simultaneous optical imaging of oxygenation and blood flow for chronic monitoring of stroke and seizure activity. Levy O, Carlen P, Stefanovic B, Chaudoir M, Chau T. NSERC + CIHR (\$612,000 2012 - 2015).

Spinal cord injury new emerging team regenerative medicine project. Morshead C, Nagy A, Shoichet M, Stanisz G, Tator C, van der Kooy D. Krembil Foundation (The). (\$1,500,000 2011 - 2014).

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

The living myelin sheath: functional organization and role in dynamic modulation of axonal function in CNS. Velumian AA, Fehlings MG. Natural Sciences and Engineering Research Council of Canada (NSERC). (\$125,000 2008 - 2013).

Transitional states of seizures: mechanisms and modulation. Carlen PL, Valiante TA. Canadian Institutes of Health Research (CIHR). (\$705670 2012 - 2017).

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: Best Abstract Presented at Society of Neuro-oncology Annual Meeting. 2012.

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

Zadeh G: 2013 PAIRO Resident Advocate Award, Residents and Interns Association of Ontario, Ontario, Canada. 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. N.N. Mahomed	Professor (Division Head)
Dr. T. Daniels	Associate Professor	Dr. K.W. Marshall	Assistant Professor
Dr. J.R. Davey	Associate Professor	Dr. D.J. Ogilvie-Harris	Associate Professor
Dr. W.M. Erwin	Assistant Professor	Dr. Y.R. Rampersaud	Associate Professor
Dr. R. Gandhi	Assistant Professor	Dr. K. Syed	Lecturer
Dr. J. Lau	Assistant Professor	Dr. C. Veillette	Assistant Professor
Dr. S. Lewis	Assistant Professor		

Publications

Ayeni OR, Peterson D, Chan K, Javidan A, Gandhi R. Suture vs Arrow Repair for Meniscus Tears of the knee: A systematic Review. *Journal of Knee Surgery* 2012 Nov; 25(5): 397-402.

Bernstein J, Ahn J, Veillette C. The future of orthopaedic information management. *J Bone Joint Surg Am.* 2012 Jul. PMID: 22760396.

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Hamer H, Gandhi R, Wong S, Mahomed N. Predicting, return-to-work following interdisciplinary treatment of chronic pain disorder. *Occupational Medicine London* 2013 May; 63(4): 253-9.

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of the proximal humerus for bone neoplasm using an anatomic prosthesis-bone graft composite. *Acta Orthopaedica Belgica*. Co-Principal Author. 2012 Aug. PMID: 23019776.

Hebert-Davies J, Laflamme GY, Rouleau D; HEALTH and FAITH investigators. Bias towards dementia: are hip fracture trials excluding too many patients? A systematic review. *Injury*. 2012 Dec; 43(12):1978-1984.

Hellsten EK, Hanbidge MA, Manos AN, Lewis SJ, Massicotte EM, Fehlings MG, Coyte PC, Rampersaud YR. An economic evaluation of perioperative adverse events associated with spinal surgery. *Spine Journal*. 2013 Jan 3;13(1):44-53.

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Zielinski SM, Viveiros H, Heetveld MJ, Swiontkowski MF, Bhandari M, Patka P, Van Lieshout EM; FAITH trial investigators. Central coordination as an alternative for local coordination in a multicenter randomized controlled trial: the FAITH trial experience. *Trials.* 2012 Jan 8; 13:5.

Zywiol MG, Brandt JM, Overgaard CB, Cheung AC, Turgeon TR, Syed KA. Fatal cardiomyopathy after revision total hip replacement for fracture of a ceramic liner. *JBJS.* 2013 Jan; 95-B(1):31-37.

Invited Visits

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

Bell RS: Health Quality Ontario, Toronto, Ontario, 23 October 2012. Panelist: Health Quality Transformation Day - Panel participation on the use of evidence in the Ontario Health System.

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

Bell RS: Toronto Board of Trade, Toronto, Ontario, 21 November 2012. Keynote Address - Necessary improvements to the healthcare delivery model and its future viability.

Bell RS: Schulich School of Business, 7 December 2012. Speaker: OMA Physician Leadership Program - Fireside Chat.

Bell RS: Ontario Hospital Association Physician Leadership Summit, Toronto, Ontario, 25 June 2013. Speaker: Closing session - Divergence opinion of what will happen: Future perspective.

Davey JR: Presenter: Biomet National Sales Meeting, Las Vegas, Nevada, United States, July 2012. Invited Speaker: Offset comparison study: Arcos, Zimmer ZMR, Stryker Renovation, Depuy Renovation and Mallory Head Calcar. Arcos case presentations.

Davey JR: 2012 Pacific Rim Orthopaedic Symposium, Bangkok, Thailand, September 2012. 1/ Chair: Optimizing range of motion in TKA. 2/ Tibial tubercle osteotomy video presentation. 3/ Current trends in orthopaedics panel presentation. Importance of femoral offset. 4/ Direct lateral approach to the hip. Cemented hip stems. 5/ Moderator: primary hip arthroplasty panel. 6/ Moderator: current trends in revision THA panel. Outcomes of infected THA. 7/ Trochanteric slide osteotomy. 8/ Jumbo acetabular cups. 9/ Ultra porous metals in acetabular revision. 10/ Moderator: revision hip arthroplasty case presentations.

Davey JR: The Canadian Arthroplasty Society, London, Ontario, Canada, 17 November 2012. Speaker: The Use of Tranexamic Acid in Total Hip and Knee Arthroplasty to Reduce Blood Loss.

Davey JR: Arcos Modular Femoral Revision Hip Instructional Course and Cadaver Lab, Henderson, Nevada, United States, 7 December 2012. Invited Speaker: Offset advantages of the Arcos modular femoral revision system. Arcos case presentations. Cadaver lab instruction.

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

Gandhi R: Knee Society, San Francisco, California, United States, 2012. Speaker: Role of Surgeon Experience on Outcomes of Total Knee Replacement.

Gandhi R: Canadian Arthroplasty Society, London, Ontario, Canada, November 2012. Presenter: 1/ A Prospective Study of Asymptomatic Pulmonary Embolism and after Hip and Knee Arthroplasty. 2/ The effect of topical tranexamic acid on blood loss on transfusion in total joint arthroplasty.

Gandhi R: Canadian Orthopaedics Association, Winnipeg, Manitoba, Canada, 2013. Speaker: Shoulder dislocation in Ontario, Canada from 1994 to 2011: The incidence, rate, and risk factors for recurrence.

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: American Academy of Pediatrics National Conference and Exhibition, New Orleans, United States, 20 October 2012. Presenter: Building Consensus-Development of Best Practice Guideline (BPG) In Pediatric Spine SSI Prevention Abstract.

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

Lewis, Stephen: Medtronic, Singapore, 28-29 November 2012. Chair: 1/ Advances in Spinal Deformity: International Symposium and Cadaveric Workshop Kyphosis: O-Arm Overview. 2/ Advances in Spinal Deformity: International Symposium and Cadaveric Workshop Kyphosis: Ponte Osteotomies. 3/ Advances in Spinal Deformity: International Symposium and Cadaveric Workshop Meeting Discussion- Q & A. 4/ Advances in Spinal Deformity: International Symposium and Cadaveric Workshop Biomechanics for the Spine Surgeon. 5/ Advances in Spinal Deformity: International Symposium and Cadaveric Workshop Case Discussion: Discussion on Indications and Techniques of Reduction in High-Grade Spondylolisthesis.

Lewis S: Broad Water 22nd Annual Dr. Tom Lowe Spine Symposium, Beaver Creek, Colorado, United States, 19-21 January 2013. Lecturer: Failures in Adult Deformity Cases. Why did they Fail? Who Can and Can't be Fixed? How to Fix the Fixable Patients. What Outcomes are to be Expected? 2/ Progressive Kyphosis in spite of Multiple Surgeries. Multiple Non-unions. Role of Anterior and Posterior Surgery and Osteotomy(s). 3/ Sagittal Imbalance in the Elderly Patient: When Should it be Treated? 4/ 66-year-old Woman with Previous Anterior Posterior Instrumented Fusion with Persistent Sagittal and Coronal Malalignment. Aging Spine. 5/ Role of Neuromonitoring for Adult Spinal Deformity SSEP vs. DNEP vs. TCMEP vs. Triggered EMG. Adult Deformity I. 6/ Middle-aged Patient with Prior Instrumented Fusion to the Lumbar Spine. Subsequent Breakdown and Degeneration Below. No Major Coronal or Sagittal Malignment.

Lewis, Stephen: AOSpine, Muscat, Oman, 23-24 February 2013. Lecturer: 1/Failed back syndrome: Management and Prevention. 2/ Idiopathic Scoliosis: Classifications & Management Principles. 3/ Subaxial cervical trauma: Management Principles: Cervical Trauma. 4/ Case presentation: A spinal lesion; is it infection, tumor, or else? Miscellaneous Spinal Pathology. 5/ Case resolution: Tumour or Infection. Miscellaneous Spinal Pathology. 6/ Pre session Evaluation - ARS. 7/ Session summary and learning outcomes. 8/ Post session evaluation - ARS. 9/ Moderator: Thoraco-Lumbar Trauma. 10/ Keynote Lecture: Complications in Spine Surgery: How to identify and Manage?

Lewis S: Stryker, Hamburg, Germany, 28 Feb -1 March 2013. 1/ Moderator: Cervical Deformity. 2/ Invited Lecturer: Case Presentation: Adolescent Idiopathic Scoliosis Session 3/ Invited Lecturer: Adolescent Idiopathic Scoliosis- Treatment Principles: Anterior vs. Posterior vs. MIS. 4/ Moderator: Sagittal Profile. 5/ Invited Lecturer: The Principles and Application of Sagittal Spinal Alignment in Deformity Corrections: Sagittal Profile. 6/ Invited Lecturer: Case Presentation: Restoring Sagittal Balance: Sagittal Profile.

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.

Lewis S: POSNA, Toronto, Ontario, Canada, 1 May 2013. Invited Lecturer: The Latest Techniques for Severe Deformities Care for the Young Patient with a Complex Orthopaedic Problem: A Global Perspective.

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.

Marshall KW: Sanofi Aventis Canada Inc., Ottawa, Ontario, Canada, 27 September 2012. Invited Speaker: Viscosupplementation: Basic Science Rationale & Clinical Application.

Marshall KW: Sanofi Aventis Canada Inc., Barrie, Ontario, Canada, 11 December 2012. Invited Speaker: Viscosupplementation: Basic Science Rationale & Clinical Application in Osteoarthritis Pain Management.

Marshall KW: Sanofi Aventis Canada Inc, Vancouver, British Columbia, Canada, 26 February 2013. Invited Speaker: Viscosupplementation: Basic Science Rationale & Clinical Application in Osteoarthritis Pain Management.

Marshall KW: Sanofi Aventis Canada Inc, Mississauga, Ontario, Canada, 30 May 2013. Invited Speaker: Viscosupplementation: Basic Science Rationale & Clinical Application.

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

Ogilvie-Harris DJ: COA, Manitoba, Canada, 12 June 2013. Presenter: 1/ Is Primary Shoulder Dislocation a Risk Factor for Mortality? A Matched Cohort Population Based Study. 2/ Shoulder Dislocation in Ontario, Canada from 1994 to 2011: The Incidence, Rate and Risk Factors for Recurrence. 3/ Analysis Of The Accuracy Of Arthroscopic Anchor Placement In The Antero-Inferior Glenoid. 4/ A population-based matched cohort study of total knee arthroplasty following cruciate ligament reconstruction. 5/ Treatment of Chronic Lateral Ankle Instability with ATFL and CFL Fibular Advancement: Surgical Technique and Clinical Outcome. 6/ Orthopedic Residents' Understanding and Application of Intrinsic CanMEDS Roles: Assessment using an Objective Structured Clinical Examination (OSCE). 7/ Facilitator: Tjong VK To Play or Not To Play: A Qualitative Investigation of Factors Affecting the Decision to Return to Sport after Anterior Cruciate Ligament Reconstruction A Qualitative Investigation of Factors Affecting the Decision to Return to Sport after Anterior Cruciate Ligament Reconstruction.

Rampersaud YR: Society for Minimally Invasive Spine Surgery, Miami, Florida, United States, 22-23 September 2012. 1/ Invited Speaker: Risk factors for the development of adverse effects in spinal surgery: A prospective study of 1815 patients. 2/ Moderator: Trauma, Tumor, Infection Session.

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: 27th Annual Meeting of the North American Spine Society, Dallas, Texas, United States, 24-27 October 2012. Presenter: 1/ Is a formal fusion necessary during instrumented surgical stabilization of thoracolumbar spine fractures? 2/ Societal cost impact of decompression alone versus decompression and fusion for degenerative spondylolisthesis. 3/ Societal cost impact of decompression alone versus decompression and fusion for degenerative spondylolisthesis. 4/ Risk factors for the development of adverse events in spinal surgery: A prospective study of 1,815 patients. 5/ Looking beyond the clinical box: The health services impact of surgical adverse events. 6/ Risk factors for the development of complications in spinal trauma: A prospective study of 874 surgical patients from the spine trauma study group (STSG). 7/ An economic evaluation of perioperative adverse events associated with spinal surgery. 8/ MIS lumbar fusion for low-grade isthmic and degenerative spondylolisthesis: Two- to five-year follow-up. 9/ En-bloc resection of primary spinal and paraspinal tumors with critical vascular involvement.

Rampersaud YR: Ministry of Health/UHN, Toronto, Ontario, Canada, 21 November 2012. Chair: ISAE: The Provincial Model to Address the Current Gaps in Care of Low Back Pain Paradigm Shift in the Management of Low Back Pain.

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.

Syed K: Canadian Arthroplasty Society (CAS), London, Ontario, Canada, 15 November 2012. Presenter: Cobalt toxicity following revision total hip arthroplasty for ceramic fracture: a systematic review and report of a fatality.

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.

Veillette C: American Academy of Orthopaedic Surgery - Electronic Skills Pavilion, Chicago, Illinois, United States, 22 March 2013. Presenter: 1/ Search Engine Marketing for Orthopaedic Surgeons. 2/ Social Media for the Orthopaedic Surgeon. 3/ Managing Your Internet Reputation for Orthopaedic Surgeons.

Veillette C: Canadian Orthopaedic Association, Canada, 21 June 2013. Presenter: Arthroscopic Subscapularis Repair.

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).

Assessing knowledge translation in orthopaedic surgery: A time-series analysis of midshaft clavicle fracture fixation in Ontario, Canada. Veillette C, Leroux T, Henry P, Wasserstein D. Orthopaedic Trauma Association (The) (OTA) (\$20,000 2013 - 2014).

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).

Knee Surgery Triage Tool. Cook D, Gandhi R, Brean M, Mahomed N. NRC Industrial Research Assistance Program. (\$5,893 2012 - 2013)

Orthopaedic Surgical Adverse Events Severity (Ortho-SAVES) System: Identifying opportunities for improved patient safety and resource utilization. Rampersud YR, Gandhi R, Mahomed NN, Lewis S, Veillette C. Canada's Academic Health Sciences Centres (AHSC). (\$166,000 2012 - 2013).

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)

Stem Cell-Based Gene Therapy for the Repair and Regeneration of Collagenase-Induced Tendon Injury. Veillette CJH, Li R, von Schroeder H. Arthritis Program, University Health Network. (\$30,000 2013)

Honours Received

Bell RS: Toronto "2012 CEO Award of Excellence in Public Relations", The Canadian Public Relations Society. 2012

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

Ahmad J, Alrasheed T, Zhong T, Hofer SOP. Delayed Breast Reconstruction Using the Inverted Latissimus Dorsi Musculocutaneous Flap: A Novel Approach to Create Ptosis and Projection. *Can J Plast Surg.* 2012; 20(1):47-50.

Anastakis DJ, Beaton DE, Mackinnon SE, Katz J. Cold Intolerance after Brachial Plexus Nerve Injury. *HAND.* 2012; 7(1):66-71.

Borschel GH, Hadlock T, Novak CB. Facial Paralysis. In: Mackinnon SE (ed) *Peripheral Nerve Surgery*, New York: Thieme Medical Publishers. 2013.

- Cahoon NJ, Naparus A, Ashrafpour H, Hofer SOP, Huang N, Lipa JE, Forrest CR, Pang CY.** Pharmacologic Prophylactic Treatment for Perioperative Protection of Skeletal Muscle from Ischemia-Reperfusion Injury in Reconstructive Surgery. *Plastic Reconstructive Surgery*. 2013 Mar; 131(3):473-85.
- Damen THC, Morrirt AN, Zhong T, Ahmad J, Hofer SOP.** Improving Outcomes in Microsurgical Breast Reconstruction: Lessons Learnt From 406 Consecutive DIEP/TRAM Flaps Performed By a Single Surgeon. *J of Plastic Reconstructive & Aesthetic Surgery*. 2013 May 1; 66(8):1032-8.
- Gullane PJ, Novak CB.** Pharyngoesophageal Reconstruction. In: Blondeel PN, Morris SF, Hallock GG, Neligan PC (eds) *Perforator Flaps: Anatomy, Technique & Clinical Applications*. 2nd Edition. St Louis: Quality Medical Publishing. Chapter 53, Pg 925-934. 2013.
- Gullane PJ, Novak CB, Neligan PC.** How to Reconstruct Large Cranial Base Defects? In: Cernea CR (ed) *Pearls and Pitfalls in Head and Neck Surgery*. 2nd edition. Basel, Switzerland: Karger Publishers. Ch 8, Pg 144-145, 2012.
- Gullane PJ, Novak CB.** Oral Cavity Reconstruction. In: Blondeel PN, Morris SF, Hallock GG, Neligan PC (eds) *Perforator Flaps: Anatomy, Technique & Clinical Applications*. 2nd Edition. St Louis: Quality Medical Publishing. Chapter 52, Pg 915-924. 2013.
- Haykal S, Soleas JP, Salna M, Waddell TK, Hofer SOP.** Evaluation of the Structural Integrity and Extracellular Matrix Components of Tracheal Allografts following Cyclical Decellularization Techniques: Comparison of Three Protocols. *Tissue Engineering. Tissue Eng Part C Methods*. 2012 Aug; 18(8): 614-23.
- Haykal S, Zhou Y, Marcus P, Salna M, Machuca T, Hofer SO, Waddell TK.** Determining the In Vitro and In Vivo Immune Response towards Decellularized and Recellularized Porcine Tracheal Allografts for Airway Transplantation. *Plastic Reconstructive Surgery*. 2013; 131(55):74.
- Israelowitz M, B. Weyand, S. Rivi, P.M. Vogt, H.P. von Schroeder.** Development of laminar flow bioreactor by computational fluid dynamics. *Advances in Engineering in Surgery*. 2013; 343-364.
- Lam A, Secord S, Butler K, Hofer SO, Liu E, Metcalfe KA, Zhong T.** A breast reconstruction needs assessment: How does self-efficacy affect information access and preferences? *Can J Plast Surg*. 2012; 20(1):37-42.
- Locke M, Zhong T, Ahmad J, Mureau M, Hofer SOP.** Tug 'O' War: Challenges of Transverse Upper Gracilis (TUG) Myocutaneous Free Flap Breast Reconstruction. *J Plast Reconstr Aesthet Surg*. 2012 Aug; 65(8): 1041-50.
- Naparus A, Ashrafpour H, Hofer SOP, Zhong T, Huang N, Cahoon NJ, McAllister SE, Neligan PN, Roy T, Lipa JE, Pang CY.** Efficacy and mechanism of hypoxic postconditioning in salvage of ex vivo human rectus abdominis muscle from hypoxia/reoxygenation injury. *Eur J Pharmacol*. 2012 July 5; 686 (1-3):90-6.
- Naparus A, Ashrafpour H; Huang N, Hofer SO, Zhong T, Forrest CR, Pang CY.** Combined Hypoxic Preconditioning and Postconditioning Do Not Confer Additive Protection of Ex Vivo Human Skeletal Muscle from Ischemia/ Reperfusion Injury. *Plastic Reconstructive Surgery*. 2013; 131(55): 105.
- Naparus A, Ashrafpour H, Huang N, Hofer SO, Zhong T, Forrest CR, Pang CY.** Combination of Hypoxic Preconditioning and Postconditioning Does Not Induce Additive Protection of Ex Vivo Human Skeletal Muscle from Hypoxia? Reoxygenation Injury. *J Cardiovascular Pharmacology*. 2012 Oct; 60(4): 347-56.
- Neinstein R, Dvali LT, Le S, Anastakis DJ.** Review of theological and doctrinal considerations of three religions impacting digital replantation decision making. *HAND*. 2012 Aug 17; 7(3):346-347.
- Neinstein R, Dvali LT, Le S, Anastakis DJ.** Complete digital amputations undergoing replantation surgery: A ten-year retrospective study. *HAND*. 2012 Aug 17; 7(3):263-266.
- Novak CB, Anastakis DJ, Beaton DE, Mackinnon SE, Katz J.** Validity of the patient specific functional scale in patients following upper extremity nerve injury. *HAND*. 2013 Feb 9; 8(2):132-138.
- Novak CB, von der Heyde RL.** Hand Therapy. In: Neligan PC, Chang J. *Plastic Surgery*. 3rd Edition. London, Elsevier Saunders. Volume 6, Chapter 39, Pg 855-869. 2013.
- Novak CB, Beaton DE, Anastakis DJ, Mackinnon SE, Katz J.** Validity of the Patient Specific Functional Scale in Patients Following Upper Extremity Nerve Injury. *HAND*. 2013; 8(2):132-138.
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Ross G, Yla-Kotola TM, Goldstein D, Zhong T, Gilbert R, Irish J, Gullane PJ, Hofer SOP, Neligan P. Second Free Flaps in Head and Neck Reconstruction. *J Plast Reconstr Aesthet Surg*. 2012 Sep; 65(9):1165-8.

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Zhong T, Janis J, Ahmad J, O'Neill A, Hofer SOP. Acellular Dermal Matrices in Abdominal Wall Reconstruction: A Systematic Review of the Current Evidence. *Plast Reconstr Surg*. 2012; 130(5 Suppl):183S-93S.

Zhong T, Wong K, Cheng H, Ojha M, Srinivas C, McLuskey S, Clarke H, Jacks L, Hofer SOP. Transversus Abdominis Plane (TAP) Catheters Inserted Under Direct Vision in the Donor Site following Free DIEP and MS-TRAM Breast Reconstruction: A Prospective Cohort Study of 45 Patients. *J Plast Reconstr Aesthet Surg*. 2013 Mar; 66(3):329-36.

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Zhong T, Pusic A. Future of Outcomes Research in Plastic Surgery. *Clin Plast Surg*. 2013; 40:351-357.

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: Association for Surgical Education, Orlando, Florida, United States, 24-25 April 2013. 1/ Invited Speaker: Academic Capitalism. The Role of the Intra- Entrepreneur Presentation on the growing corporatization of the academy and the increasing demand for entrepreneurs in academic medicine. 2/ Distinguished Speaker: The Anatomy of Reputation. An ASE Priority Presentation on the importance of individual professional and organizational reputation. How to build upon, leverage and capitalize on an organization's reputation.

Anastakis DJ: George Brown College, Convocation Address, 10 June 2013. Keynote Speaker: The Art of Being Influential.

Hofer S: Plastic Surgical Club 2012, Leogang, Salzburg, Austria, 29-30 November 2012. Invited Lecturer: 1/ Aesthetic Breast Reconstruction with Abdominal Free Flaps: Application and Limitations. 2/ Nasal Reconstruction with the 3-stage Paramedian Forehead Flap: Principles and Application.

Hofer S: American Society for Reconstructive Microsurgery, 2013 Annual General Meeting, Naples, Florida, United States, 12-15 January 2013. Invited Lecturer: 1/ Breakout Panel: Getting published Reconstructive Surgery: What you need to know to succeed. 2/ Breakout Panel: Trachea and Larynx Reconstruction: Hot topics in air supply.

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.

Hofer S: 3rd International Breast Surgery Workshop, Roma, Italy, 26 April 2013. Invited Lecturer: Working in a breast unit. The University Health Network Experience.

Novak CB: American Society for Surgery of the Hand, 67th Annual Meeting, Chicago, Illinois, United States, 8 September 2012. Speaker: 1/ Patient Specific Functional Scale: Establishment of Validity in Patients with Upper Extremity Nerve Injury. 2/ Effect of Forearm Warming Compared to Hand Warming for Cold Intolerance Following Upper Extremity Trauma.

Novak CB: Canadian Society of Hand Therapists, Calgary, Alberta, Canada, 4 May 2013. Invited Speaker: Nerve Injury and Cortical Plasticity.

von Schroeder HP: American Orthopaedic Soc Sports Med., Toronto, Ontario, Canada, 24 August 2012. Invited Speaker: Wrist and hand injuries in hockey Annual Meeting.

von Schroeder HP: American Occupational Health Annual Conference, Orlando, Florida, United States, 28 April 2013. Speaker: Factors associated with return-to-work allowing work-related upper extremity injuries.

von Schroeder HP: Canadian Association of Physical Medicine & Rehabilitation, Montreal, Quebec, Canada, 29 May 2013. Presenter: Factors associated with return to work following work related upper extremity injuries.

Zhong T: The Third World Congress for Plastic Surgeons of Chinese Descent, Xian, Xianggang (zh), China, 12 October 2012. Invited Lecturer: Panel 21- Breast Reconstruction (II) Moderator Panelist - Stanford experience.

Zhong T: 58th Annual Meeting of the Plastic Surgery Research Council, Santa Monica, California, United States, 3 May 2013. Presenter: Do Postoperative Complications Predict Regret to Undergo Microsurgical Breast Reconstruction?

Zhong T: Globe and Mail Newspaper (print and online), Toronto, Ontario, Canada, 14 May 2013. Quoted expert in breast reconstruction surgery: Angelina Jolie's awareness-raising revelation (mostly praised, cancer experts say).

Zhong T: Postmedia Digital, Toronto, Ontario, Canada, 15 May 2013. Live chat participant: Prophylactic Mastectomies and Breast Reconstruction following Angelina Jolie's media announcement.

Zhong T: Canadian Society of Plastic Surgeons, Calgary, Alberta, Canada, 29-30 May 2013. 1/ Presenter: Patterns of care for immediate breast reconstruction in Ontario: An Examination of the Past Decade. 2/ Focus Group: Member CSPA Education Committee/ CSPA Annual Scientific Program. 3/ Judging Committee: Member

Research and Investigations

Development of a decision support tool in post-mastectomy breast reconstruction surgery. Hofer SOP, Zhong T, Metcalfe K. Canadian Institute of Health Research (CIHR). (\$184,540 2012 - 2014).

Effect of Forearm Warming Compared to Hand Warming for Cold Intolerance Following Upper Extremity Trauma. Novak C, Anastakis DJ, Fernie G, Von Schroeder HP. American Foundation for Surgery of the Hand (AFSH). (\$20,000 2012 - 2014)

Hypoxic postconditioning of human skeletal muscle against reoxygenation injury: efficacy, mechanism and therapeutic potentials. Pang C, Forrest C, Hofer S, Zhong T. Canadian Institutes of Health Research (CIHR). (\$326,763 2009 - 2013).

Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries. Research Advisory Counsel. Davis KD, Anastakis DJ, Katz JD. Workers Safety and Insurance Board. (\$348,273 2012 - 2015).

Quality of life and patient reported outcomes of reconstruction in breast cancer survivors. Macadam S, Lennox P, Van Laeken N, Zhong T, Lipa J, Snell L, Vidal C. Canadian Breast Cancer Foundation - British Columbia/ Yukon Chapter. (\$100,000 2010 - 2013).

The Use of Acellular Dermal Matrix in One-Stage Implant Reconstruction: A Multicenter, Randomized Controlled Trial. Zhong T, Baxter N, Hofer SOP, Semple J, Brown M, Beber B, Macadam S, Hoch J, Lennox P, Devins J. Canadian Breast Cancer Foundation (CBCF), (\$368,449 2012 - 2015).

Understanding Bangladeshi's Women's Experiences of Humanitarian Surgical Missions. Zhong T, Webster F, Pusic A, Ginsburg O, Perrier L. Canadian Institutes of Health Research (CIHR), Research Planning Meeting. (\$25,000 2012 - 2013).

Utilization of Breast Reconstruction in the Treatment of the Breast Cancer in Ontario: A Population-Based Study. Zhong T, Urbach D, Baxter N, Musgrave M, Hofer SOP, Sutradhar R. Canadian Breast Cancer Foundation (CBCF), Ontario Region. (\$257,474 2011 - 2014).

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

Allibhai Z, Cho BC, Taremi M, Atallah S, Hope A, Hwang D, Keshavjee S, Tsao M, Yasufuku K, Kim SW, Bezjak A. Surgical salvage following stereotactic body radiotherapy for early-stage NSCLC. *Eur Respir J.* 2012 Apr; 39(4): 1039-42.

Anayama T, Nakajima T, Dunne M, Zheng J, Allen C, Driscoll B, Vines D, Keshavjee S, Jaffray D, Yasufuku K. A Novel Minimally Invasive Technique to Create a Rabbit VX2 Lung Tumor Model for Nano-sized Image Contrast and Interventional Studies. *PLoS One.* 2013 Jun 28; 8(6): e67355.

Atrey A, Morison Z, Waddell JP, Schemitsch EH. A Technique For Avoiding Notching Of The Anterior Femur In Total Knee Arthroplasty. *Annals of the Royal College of Surgeons (UK). Ann R Coll Surg Engl* 2013 May;95;10.

Boehnert MU, Yeung JC, Bazerbachi F, Knaak JM, Selzner N, McGilvray ID, Rotstein OD, Adeyi OA, Kandel SM, Rogalla P, Yip PM, Levy GA, Keshavjee S, Grant DR, Selzner M. Normothermic acellular ex vivo liver perfusion reduces liver and bile duct injury of pig livers retrieved after cardiac death. *Am J Transplant.* 2013 Jun; 13(6):1441-9.

Bustos ML, Mura M, Marcus P, Hwang D, Ludkovski O, Wong AP, Waddell TK. Bone marrow cells expressing Clara cell secretory protein increase epithelial repair after ablation of pulmonary Clara cells. *Mol Ther.* 2013 Jun; 21(6):1251-8.

Cypel S, Keshavjee S. Editorial Comment: Expanding lung donation: the use of uncontrolled non-heart beating donors. *Eur J Cardiothoracic Surg.* 2013 Feb; 43(2):419-20.

Cypel M, Yeung JC, Machuca T, Chen M, Singer LG, Yasufuku K, de Perrot M, Pierre A, Waddell TK, Keshavjee S. Experience with the first 5 ex vivo lung perfusions in clinical transplantation. *J Thorac Cardiovasc Surg.* 2012 Nov;144(5):1200-6.

Cypel M, Keshavjee S. Extracorporeal membrane oxygenation as a bridge to lung transplantation. *ASAIO J.* 2012 Sep; 58(5):441-2..

Cypel M, Keshavjee S. Respiratory Support: Novalung. *Cardiac Surgery: Technique and Practice.* Edited by K. Franco, E. Roselli, M. Slaughter & V. Thourani. McGraw-Hill Publishing Company. 2013 Apr 13.

Cypel M, Keshavjee S. Currently Available Artificial Lung Support. . *Solid Organ Transplantation in the Regenerative Medicine Era.* Edited, Orlando G. Elsevir, Inc. 2012 Oct 31.

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- De Perrot M, Keshavjee S.** Transternal Repair of Bronchopleural Fistula. *Master Techniques in Thoracic Surgery.* Lippincott Williams & Wilkins. 2013 Jun 1.
- Hanna WC, de Valence M, Atenafu EG, Cypel M, Waddell TK, Yasufuku K, Pierre A, De Perrot M, Keshavjee S, Darling GE.** Is video-assisted lobectomy for non-small-cell lung cancer oncologically equivalent to open lobectomy? *Eur J Cardiothorac Surg.* 2013 Jun; 43(6): 1121-5.
- Haykal S, Soleas JP, Salna M, Hofer SO, Waddell TK.** Evaluation of the Structural Integrity and Extracellular Matrix Components of Tracheal Allografts Following Cyclical Decellularization Techniques: Comparison of Three Protocols. *Tissue Eng Part C Methods.* 2012 Aug;18(8):614-23.
- Jacobson FL, Austin JH, Field JK, Jett JR, Keshavjee S, Macmahon H, Mulshine JL, Munden RF, Salgia R, Strauss GM, Sugarbaker DJ, Swanson SJ, Travis WD, Jaklitsch MT.** Development of the American Association for Thoracic Surgery guidelines for low-dose computed tomography scans to screen for lung cancer in North America: Recommendations of the American Association for Thoracic Surgery Task Force for Lung Cancer Screening and Surveillance. *J Thorac Cardiovasc Surg.* 2012 Jul;144(1):25-32.
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- Keshavjee S, Machuca T.** Transplantation for Lung Cancer. *Curr Opin Organ Transplant.* 2012; 17:479–484.
- Keshavjee S, Anraku M.** Care of the Multiorgan Donor. *Principals of Critical Care.* 4th Edition Schmidt GA, Hall JB, Kress JP. 2012 Nov.
- Keshavjee S, Pipkin M.** Staging of the Mediastinum. *Lung Cancer.* 4th edition, Edited by Jack A. Roth, Waun Ki Hong and Ritsuko U. Komaki with associate editors Anne S. Tsao, Joe Y. Chang, Shanda H. Blackmon. 2013 Jan 15.
- Ko MA, Zehong G, Virtanen C, Guindi M, Waddell TK, Keshavjee S, Darling GE.** MicroRNA Expression Profiling of Esophageal Cancer Before and After Induction Chemoradiotherapy. *Ann Thorac Surg.* 2012 Oct; 94(4):1094-103.
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- Kuzyk PR, Shah S, Zdero R, Olsen M, Waddell JP, Schemitsch EH.** A Biomechanical Comparison of Static Versus Dynamic Lag Screw Modes For Cephalomedullary Nails Used to Fix Unstable Periprosthetic Fractures. *Journal of Trauma and Acute Care Surgery.* 2012; 72(2): E65-70.
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- Machuca T, Keshavjee S.** Ex vivo lung perfusion. *Cardiac Surgery: Technique and Practice.* Edited by K. Franco, E. Roselli, M. Slaughter & V. Thourani. McGraw-Hill, New York. Co- 2013 Apr.
- Maughan H, Cunningham KS, Wang PW, Zhang Y, Cypel M, Chaparro C, Tullis DE, Waddell TK, Keshavjee S, Liu M, Guttman DS and Hwang DM.** Pulmonary bacterial communities in surgically resected noncystic fibrosis bronchiectasis lungs are similar to those in cystic fibrosis. *Pulm Med.* 2012. Epub 2012 Feb 8. 746358.
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- Nakajima T, Anayama T, Shingyoji M, Kimura H, Yoshino I, Yasufuku K.** Vascular image patterns of lymph nodes for the prediction of metastatic disease during EBUS-TBNA for mediastinal staging of lung cancer. *J Thorac Oncol.* Jul 12 2012; 7(6): 1009-14.
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- Nikolaou VS, Edwards MR, Bogoch E, Schemitsch EH, Waddell JP.** A Prospective Randomized Controlled Trial Comparing Three Alternative Bearing Surfaces in Primary Total Hip Replacement. *Journal of Bone and Joint Surgery - British Volume.* 2012;94(4): 459-465.
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- Wada H, Yoshida S, Ishikawa A, Yasufuku K, Yoshino I, Kimura H.** Endobronchial ultrasonography in a patient with a mediastinal thoracic duct cyst. *Ann Thorac Surg.* Jul 12 2012; 93(5): 1722-5.
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- Wong M, Yasufuku K.** EBUS-TBNA in patients with lung cancer or mediastinal lymphadenopathy. *The Hong Kong Medical Diary.* Jul 12 2012; 17(1): 3-7.
- Yasufuku K, Feith JF.** Cytological specimens obtained by endobronchial ultrasound-guided transbronchial needle aspiration: Sample handling and role of rapid on-site evaluation. *Ann Pathol.* Jul 12 2012; 32(6): e35-46.
- Yasufuku K.** Relevance of endoscopic ultrasonography and endobronchial ultrasonography to thoracic surgeons. *Thorac Surg Clin.* 2013 May 23; 23(2): 199-210.
- Yasufuku K.** *Linear Endobronchial Ultrasound. Principles and Practice of Interventional Pulmonology.* Ernst A, Herth F (Ed), Springer, NY. 2013 Jan.
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- Yeung J, Keshavjee S, Liu M.** The Role of Toll-Like Receptors in Lung Transplantation. *Toll-like receptors in disease of the lung.* Bentham Science 2012 Aug; Vol 1 (12): 151-162.

Zhang Y, Cypel M, Chaparro C, Tullis E, Waddell TK, Keshavjee S, Liu M, Guttman DS, Hwang DM. Pulmonary Bacterial Communities in Surgically Resected Noncystic Fibrosis Bronchiectasis Lung Are Similar to Those in Cystic Fibrosis. *Pulmonary Medicine*. Volume 2012, Article ID 746358 9 pages.

Invited Visits

Keshavjee S: 24th International Congress of The Transplantation Society, Berlin, Germany, 15 July 2012. Invited Lecturer: 1) Donation after Cardiac Death: Lung Procurement 2) The Future of Organ Preservation.

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: 10th International Congress on Lung Transplantation, Paris, Paris, France, 21 September 2012. Invited Lecturer: 1) Ex vivo lung perfusion: the Toronto Clinical Experience 2) Ex vivo lung Perfusion: The Next Horizon.

Keshavjee S: Thoracic Nurses Association of Canada, Toronto, Ontario, Canada, 24 September 2012. Invited Lecturer: 1) The History of Thoracic Surgery in Canada 2) Tracheal Resections.

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: Medical Manufacturing and Innovations, Society of Manufacturing Engineers,, Toronto, Ontario, Canada, 24 October 2012. Invited Speaker: Opening Keynote Presentation, Biology Meets Technology: Building a New Lung.

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: American Association for Thoracic Surgery: Focus on Lung Cancer., Boston, Massachusetts, United States, 16 November 2012. Invited Speaker: 1) Surgery for 3A-B Disease:Restaging after Induction Therapy 2) Can you make an inoperable tumour operable? Resection of T4 Tumours.

Keshavjee S: Wuxi Peoples Hospital, Wuxi, China, 22 November 2012. Invited Speaker: 1) Resection of T4 Lung Cancer 2)Minimally Invasive & Robotic Surgery for Early Stage Lung Cancer 3)Technique of Trans-Cervical VATS Thymectomy 4)Keynote address:State of the Art in Lung Replacement.

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: American Transplant Congress, Seattle, Washington, United States, 20 May 2013. Invited Lecturer: The Future of 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: 1st Fragility Fracture Network Global Congress, Berlin, Berlin, Germany, 7-8 September 2012. 1/ Invited Speaker: How We Worked Out What Is Important For Ontario. 2/ Co-Chair: Toolkit Workshop: How to Implement Acute Care Bundles and Other Systems for Quality Improvement - Sharing Effective Policies for Improving Quality Hip Fracture Care.

Waddell JP: 1st Fragility Fracture Network Global Congress, Berlin, Germany, 8 September 2012.

Waddell JP: Queen Elizabeth Hospital - Grand Rounds, Charlottetown, Prince Edward Island, Canada, 12 October 2012. Visiting Professor: Improving Hip Fracture Care.

Waddell JP: Ministry of Health, Prince Edward Island - Care of the Hip Fracture Patient Workshop, Charlottetown, Prince Edward Island, Canada, 12 October 2012. Invited Lecturer: Improving Hip Fracture Care - ED and Surgery; Medical Management - Postoperative Care.

Waddell JP: Great Expectations North - Stryker Canada, Montreal, Quebec, Canada, 19-20 October 2012. Invited Speaker: 1/ The Holy Trinity? The Present and Future of Surgeon, Hospital and Industry Relations - The Canadian Perspective. 2/ Canadian Healthcare System - Future Arthroplasty Funding Models. 3/ Moderator: 2012 Revision Knee. 4/ Moderator: Point-Counterpoint in Hip Arthroplasty.

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.

Waddell JP: Ontario Orthopaedic Association, Toronto, Ontario, Canada, 2 November 2012. Invited Speaker: Update from the Orthopaedic Expert Panel.

Waddell JP: Canadian Arthroplasty Society Inaugural Meeting, London, Ontario, Canada, 16 November 2012. Moderator: Session 7: General Practice Issues.

Waddell JP: Societe Internationale de Chirurgie Orthopedique et de Traumatologie, Dubai, United Arab Emirates, 28-29 November 2012. Co-Moderator: 1/ Total Hip Arthroplasty - Bilateral Minimal Invasive Positioning. 2/ SICOT Trauma Committee / ARTOF Symposium - Trauma: Tibial Pilon Fractures Session 1. 3/ Instructional Course Lecture: Trauma: Polytrauma Treatment. 4/ Moderator: Symposium Trauma: Femoral Neck Fractures. 5/ Speaker: A Biomechanical Analysis of the Impact of Proximal Femoral Morphology on Failure Strength with the Birmingham Mid-Head Resection. 6/ Establishing an Orthopaedic Quality Scorecard. 7/ Conservative Treatment of Fractures of the Humerus, Proximal and Mid-Shaft. 8/ Malleolar Fractures - Conservative Therapy. 8/ Early Total Care Vs Damage Control Orthopaedic Surgery in Polytrauma. 9/ Symposium Trauma: Femoral Neck Fractures - Scope of the Problem. 10/ Symposium Trauma: Femoral Neck Fractures - Improving Results.

Waddell JP: ARTOF/SICOT, Dubai, United Arab Emirates, 29 November 2012. Invited Speaker: ARTOF Instructional Course Lecture: Trauma: Fractures of the Distal Tibia and Ankle. 1/ Diagnostic of Distal Tibia and Ankle Fractures. 2/ Conservative Therapy: Reduction & Splinting.

Waddell JP: SICOT - Societe Internationale de Chirurgie Orthopedique et de Traumatologie, Toronto, Ontario, Canada, 8 February 2013. Invited Lecturer: Treatment of Femoral Neck Fractures WEBINAR - SICOT Ortho Excellence Program.

Waddell JP: Peterborough Regional Health Care (CE LHIN), Peterborough, Ontario, Canada, 23 May 2013. Keynote Speaker: Health System Funding Reform: What Does It Mean For Physicians?

Waddell JP: Waterloo-Wellington Local Health Integration, Kitchener, Ontario, Canada, 28 May 2013. Invited Speaker: Planning For Orthopaedics.

Waddell JP: European Federation of National Associations of Orthopaedics & Traumatology, Istanbul, Turkey, 6-8 June 2013. 1/ Invited Lecturer: Hip: Dislocation & Post-traumatic Instability: Methods & Options ARTOF (Association for the Rational Treatment of Fractures) Instructional Course Lecture on Post-Traumatic Joint Instability. 2/ Practical Session: Ruecker/Ahrens/Waddell/Rucholz Reposition Maneuvers Shoulder/Elbow/Hip & Splinting; Ankle Instability and its Stabilizing Options ARTOF (Association for the Rational Treatment of Fractures) Instructional Course Lecture - Practical Session. 3/ Instability After Total Hip Arthroplasty - Prevention and Immediate Management.

Waddell JP: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20-22 June 2013. Presenter: 1/ Bilateral Sequential Total Hip Replacement With Single Anaesthesia. 2/ The Arthroscopy Association of Canada - Should We Start an ACL Registry? 3/ Adult Knee Reconstruction Paper Session 2. 4/ Invited Speaker: Controversial Examples of New Technology in TJA Symposium: The Introduction of New Technology in TJA: One Step Forward, One Step Back. 5/ Moderator: Smoking Cessation Program: Resources and Support Designed to Improve Patient Outcomes Canadian Orthopaedic Foundation Instructional Course Lecture. 6/ The Cost of Hip Fractures Hip Fracture Symposium - Improving Care. 7/ Orthopaedic Quality Scorecard - What Do We Need To Measure Orthopaedic Registries - Beyond Implant Survival.

Yasufuku K: Toronto, Ontario, Canada, 4 July 2012. EBUS for the Respiriologist. The Basics of Respirology: An Introductory Course for First Year Respirology Residents in Ontario.

Yasufuku K: VIII North-Northeast Congress of Thoracic Surgery, Salvador, Bahia, Brazil, 23-24 August 2012. Invited Speaker: 1/ International Symposium of Lung Cancer: Diagnosis of Lung Cancer – Indications for EBUS and EUS. 2/ Thoracic Symposium: Surgical Approach for In-situ and Minimally Invasive Adenocarcinoma. 3/ International Symposium of Lung Cancer: Mediastinal Staging – EBUS vs Mediastinoscopy.

Yasufuku K: Critical 4 Africa 2012 Congress Combined Meeting of CCSSA, SATS, SASPEN & TSSA, Sun City, South Africa, 29 August 2012. Invited Speaker: 1/ SATS Symposium: Lung Transplantation – State-of-the-Art. 2/ Lung Cancer Symposium: Minimally Invasive Surgery (including Robotics). 3/ Interventional Bronchoscopy and Pleural Disease Symposium: Endobronchial and Oesophageal Ultrasound.

Yasufuku K: Thoracic Nurses Association of Canada, 4th Annual National Conference, Toronto, Ontario, Canada, 26 September 2012. Invited Speaker: 1/ Robotic Lung Surgery. 2/ Endobronchial Ultrasound.

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.

Yasufuku K: The American College of Chest Physicians International Conference 2012, Atlanta, Georgia, United States, 22-25 October 2012. Invited Speaker: Panel Discussion: 1/ Integration of Endobronchial Ultrasound Technology. Using the “Ultrasound” in EBUS: Identifying Important Lymph Node Characteristics. 2/ Practical Aspects of Endobronchial Ultrasound (EBUS). Optimal EBUS Specimen Processing.

Yasufuku K: American Association for Thoracic Surgery, Focus on Thoracic Surgery: Lung Cancer, Boston, Massachusetts, United States, 16-17 November 2012. Invited Speaker: 1/ SBRT – Tissue Diagnosis and Staging for SBRT. 2/ Diagnosis and Staging – Navigational Bronchoscopy.

Yasufuku K: STS University Course. The Society for Thoracic Surgeons Annual Meeting, Los Angeles, California, United States, 27-30 January 2013. 1/ Faculty: Hands-On session. Ultrasound and Navigation-Guided Bronchoscopy. 2/ Invited Speaker: General Thoracic Track II: A Look into the Future of Thoracic Surgery. Thoracic Imaging and Localization (Hybrid Room).

Yasufuku K: The 113th Annual Congress of Japan Surgical Society, Fukuoka City, Hukuoka [Fukuoka], Japan, 13 April 2013. Invited Speaker: 1/ Special Program: Message to the Next Generation, from Surgeons Actively Working Overseas. Frontiers in Thoracic Surgery. 2/ Workshop: New strategies for recurrent lung cancer after surgery: In pursuit of long-term survival. The role of minimal dose CT for follow-up after curative lung cancer resection.

Yasufuku K: Johnson and Johnson Global Surgery R&D Conference, New Brunswick, New Jersey, United States, 17 April 2013. Invited Speaker: Imagine More, Innovation to Cure: Frontiers in Thoracic Intervention.

Yasufuku K: 2nd European Congress for Bronchology and Interventional Pulmonology,, Cesme-Izmir, Turkey, 29-30 April 2013. Invited Speaker: 1/ Symposium: Management of early-stage bronchial tumors: Which is the best? Bronchoscopic treatment. 2/ Symposium: Bronchoscopic management of airway complications after thoracic surgery - update. After lung transplant. 3/ Symposium: Evaluation of the mediastinum in lung cancer. EBUS/EUS and any role for mediastinoscopy? 4/ State of the Art: EBUS for central and peripheral lesions. 5/ Precongress EBUS Course 1) Should EUS be combined with EBUS? Complete mediastinal staging? 2) Hands-on Teaching: EBUS-TBNA.

Yasufuku K: American Thoracic Society International Conference 2013, Philadelphia, Pennsylvania, United States, 18 May 2013. 1/ Invited Speaker: ATS Postgraduate Course 2013: American Thoracic Society Bronchoscopy Course - Lung Cancer Staging, Revised TNM staging. 2/ Faculty: ATS Postgraduate Course 2013: American Thoracic Society Bronchoscopy Course - EBUS-TBNA Hands-on teaching.

Yasufuku K: Toronto Japanese School, Educational Rounds, Toronto, 22 June 2013. Invited Speaker: Advances in Medical Engineering Allows Innovations in Minimally Invasive Surgery.

Research and Investigations

Determining the Immunogenicity of Decellularized Tracheal Allografts. Waddell TK: Physicians Services Incorporated Foundation (The) (PSI). (\$155,000 2011 - 2013).

Ex-vivo Gene Repair of Injured Donor Lungs for Transplantation. Keshavjee S: Wyeth Pharmaceuticals/ CIHR, Chair in Transplantation Research. (\$1,100,000 2008 - 2013).

Lung Progenitor Cell Profiling in the Development of Bronchiolitis Obliterans Syndrome. Waddell TK: Roche Organ Transplant Research Foundation. (\$212000 2011 - 2014).

Molecular Therapeutic Strategies for Ex-vivo Repair of Lungs for Transplantation. Keshavjee S: Canadian Institutes of Health Research (CIHR). (\$774,345 2009 - 2013).

New Emerging Team in Regenerative Medicine: Development of Lung Progenitors. Bhatia M, Waddell TK: Canadian Institutes of Health Research (CIHR). (\$2,500,000 2009 - 2015). [

Porphysome nanoparticle-enabled minimally invasive transbronchial photothermal ablation of lung cancer. Zheng G, Waddell TK: CIHR. (\$756,699 2012 - 2017).

Project Lead, Nanotechnology-enabled image-guided interventions in vascular and lung diseases. Zheng G, Yasufuku K: Canadian Institutes of Health Research (CIHR), (\$2,317,262 , 2011 - 2015).

Rapid gene expression and protein profiling for transplantation medicine. Keshavjee S, Kelley S, Liu M: CIHR- Canadian Institute of Health Research. (\$565,800 2013 - 2016).

Research in Thoracic Intervention. Yasufuku K: Olympus Medical Systems Corp/UHN (\$250,000 2012 - 2013).

Tissue remodelling and the immune response in obliterative bronchiolitis after lung transplantation. Keshavjee S: Canadian Cystic Fibrosis Foundation. (\$331,501 2012 - 2015).

Training Program in Regenerative Medicine. Levy G, Waddell TK: Canadian Institutes of Health Research (CIHR). (\$1,950,000 2009 - 2015).

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 (ICRH) & Canadian Thoracic Surgery (CTS). 2012

Keshavjee S: Zellers Senior Scientist Award, Cystic Fibrosis Canada. Mar 2012 - Mar 2013.

Keshavjee S: Order of Ontario, Ministry of Ontario. Feb 2013

Keshavjee S: TTS-Roche Award for Excellence in Translational Science, The Transplantation Society, Berlin, Germany. Jul 2012

Yasufuku K: Top Downloaded Articles from The Journal of Thoracic & Cardiovascular Surgery, 2013.

Yasufuku K: Robert J. Ginsberg Award for Excellence in Postgraduate Teaching, Division of Thoracic Surgery. 2013.

Division of Urology

Dr. A. Finelli	Associate Professor	Dr. G. Kulkarni	Assistant Professor
Dr. N.E. Fleshner	Professor (Division Head)	Dr. A. Matthew	Assistant Professor
Dr. M.M. Hassouna	Professor	Dr. S. Radomski	Professor
Dr. M. Jewett	Professor	Dr. J. Trachtenberg	Professor

Publications

Akbari MR, Trachtenberg J, Lee J, Tam S, Bristow R, Loblaw A, Narod SA, Nam RK. Association Between Germline HOXB13 G84E Mutation and Risk of Prostate Cancer. *Journal of the National Cancer Institute*. 2012. Epub 9 Jul 2012.

Alanee S, Shah S, Vijai J, Schrader K, Hamilton R, Rau-Murthy R, Sarrel K, Manschreck C, Eastham J, Offit K. Prevalence of HOXB13 mutation in a population of Ashkenazi Jewish men treated for prostate cancer. *Fam Cancer*. 2013 Mar 9. [Epub ahead of print].

Al Edwan G, Fleshner N. 5-alpha reductase inhibitors in patients on active surveillance: do the benefits outweigh the risk? *Current Urology Reports*. 2013 Jun; 14(3):223-6.

Al-Shaiji TF, Radomski SB. Relationship between body mass index and overactive bladder in woman and correlations with urodynamic evaluation. *International Neurourology Journal*. 2012 Oct 1; 16:126-131.

Ani I, Finelli A, Alibhai SM, Timilshina N, Fleshner N, Abouassaly R. Prevalence and impact on survival of positive surgical margins in partial nephrectomy for renal cell carcinoma: a population-based study. *British Journal of Urology*. 2013 Jun;111(8): E300-5.

Bhindi B, Trottier G, Elharram M, Fernandes KA, Lockwood G, Toi A, Hersey K, Finelli A, Evans A, van der Kwast TH, Fleshner N. Measurement of peri-prostatic fat thickness using transrectal ultrasonography (TRUS): a new risk factor for prostate cancer. *British Journal of Urology*. 2012: Oct;110(7):980-6.

Bjarnason G, Soulieres D, Tanguay S, Rendon R, Moore R, Kapoor A, Cagiannos I, Jewett M, Kollmannsberger C, Venner P, Black P, Heng D, Wood L, Finelli A. Improving Clinical Outcomes through the Development of Quality Indicators in Renal Cell Cancer. *Cancer*. 2012 Nov.

Bostrom PJ, Alkhateeb S, Trottier G, Athanasopoulos PZ, Mirtti T, Kortekangas H, Laato M, van Rhijn B, van der Kwast T, Fleshner N, Jewett MA, Finelli A, Zlotta AR. Sex differences in bladder cancer outcomes among smokers with advanced bladder cancer. *British Journal of Urology*. 2012: 109(1): 70-6.

Bowes B, Crook JM, Wallace K, Evans A, Toi A, Finelli A, Jewett MA, Fleshner N, Catton C. Results of a surgically derived nomogram to predict Gleason score upgrading applied to a cohort of patients with "favourable risk" prostate cancer treated with permanent seed brachytherapy. *Urology*. 2012: Sept; 80(3): 649-55.

Cepek J, Chronik B, Lindner U, Trachtenberg J, Fenster A. Development of an MRI-compatible device for prostate focal therapy. *Med Image Comput Assist Interv*. 2012;15(Pt 1):455-62.

Cepek J, Chronik BA, Lindner U, Trachtenberg J, Davidson SR, Bax J, Fenster A. A system for MRI-guided transperineal delivery of needles to the prostate for focal therapy. *Med Phys*. 2013 Jan;40(1):012304. doi: 10.1118/1.4773043. PMID: 23298109. AID: 10.1118/1.4773043 [doi].

Darling G, Leveridge M, Martelli-Reid L, Oliver TK, Press N, Verma S, Ung Y, Werier J, Yafi FA, Butler J, Stathis A, Burak KW, Abouassaly R, Tang C, Cheung MC, Evans, Mack L, Bramwell V, Simunovic M, Loblaw A, Fung M, Jewett MAS, Ellis P, Asmis T, Hay J, Imrie K, Kassouf W, Moore M, Nason RW, Bathe O, Browman G. Patient Surveillance after Cancer Treatment. Springer, New York, 2013 Apr. ISBN: 978-160327-968-0 ; (ebook) 978-1-60327-969-7.

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- Hamilton RJ, Andriole GL, Vemana G, Freedland SJ. Medical Therapy for Benign Prostatic Hyperplasia in the Prevention of Prostate Cancer. *Annu Rev Med*. 2013 Jun.
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Wong LM, Trottier G, Toi A, Lawrentschuk N, Van der Kwast TH, Zlotta A, Kulkarni G, Hamilton R, Trachtenberg J, Evans A, Timilshina N, Fleshner NE, Finelli A. Should Follow-up Biopsies for Men on Active Surveillance for Prostate Cancer Be Restricted to Limited Templates? *Urology*. 2013 Jun 1. doi:pii: S0090-4295(13)00452-4. 10.1016/j.urology.2013.03.057. [Epub ahead of print].

Wong LM, Yan H, Margel D, Fleshner N. Urologists in cyberspace: A review of the quality of health information from American urologists' websites using three validated tools. *Canadian Urological Association Journal*. 2013 Mar-Apr; 7(3-4): 100-7.

Wood L, Bjarnason GA, Black PC, Cagiannos I, Heng DY, Kapoor A, Kollmannsberger CK, Mohammadzadeh F, Moore RB, Rendon RA, Soulieres D, Tanguay S, Venner P, Jewett M, Finelli A. Using the Delphi Technique to Improve Clinical Outcomes Through the Development of Quality Indicators in Renal Cell Carcinoma. *J Oncol Pract*. 2013 Jun 4. [Epub ahead of print]. PMID: 23943895.

Yap S, Alibhai S, Abouassaly R, Timilshina N, Margel D, Finelli A. Does ipsilateral adrenalectomy at the time of radical nephrectomy impact overall survival? *The Journal of Urology*. April 2012 (Vol. 187, Issue 4, Supplement, Page e22, DOI: 10.1016/j.juro.2012.02.096). PMID: 23039377.

Yap SA, Alibhai SM, Abouassaly R, Timilshina N, Margel D, Finelli A. Ipsilateral adrenalectomy at the time of radical nephrectomy impacts overall survival. *BJU Int*. 2013 Mar;111(3 Pt B):E54-8. doi: 10.1111/j.1464-410X.2012.11435.x. Epub 2012 Oct 8.

Yap SA, Finelli A, Alibhai SM. Treating small renal masses: Costing it out. *Can Urol Assoc J*. 2013 Mar-Apr;7(3-4):114-5.

Invited Visits

Finelli A: Northeastern Ontario Regional Cancer Centre, Sudbury, ON, Ontario, Canada, 22 September 2012. Invited Speaker: Castrate resistant prostate cancer: An update for urologists.

Finelli A: GU oncology rounds, London, Ontario, Canada, 27 September 2012. Invited Speaker: Recent advances in ADT for advanced prostate cancer.

Finelli A: SIU, Japan, 1 October 2012. Guest Speaker: 1/ The Role of Dutasteride in Preventing BPH-Associated Clinical Progression Among Asymptomatic Men with an Enlarged Prostate Podium. 2/ Results of a National Population-based Study of Outcomes of Surgery for Renal Tumours Associated with Inferior Vena Cava Thrombus Podium.

Finelli A: 11th International Kidney Cancer Symposium, Chicago, United States, 5 October 2012. Invited Speaker: The Role of Radical Nephrectomy in the Management of Small Renal Masses.

Finelli Antonio: Reuters Health, 16 October 2012. Speaker: Leave the adrenal gland during radical nephrectomy: study.

Finelli A: American Society of Nephrology, San Diego, United States, 4 November 2012. Invited Speaker: New treatment options in the management of RCC.

Finelli A: Spanish Oncology Genitourinary Group, Madrid, Spain, 21 November 2012. Invited Speaker: The role of renal tumour biopsy and active surveillance for small renal masses.

Finelli A: Society of Urologic Oncology Inc., Rockville, Maryland, United States, 28 November 2012. Invited Speaker: Improving the Quality of Surgery for Upper Tract Disease: Lymphadenectomy and the Bladder Cuff.

Finelli A: American Society of Clinical Oncology, December 2012. Advisor: Genitourinary Guideline Advisory Group (GAG).

Finelli A: 4th Canadian Kidney Cancer Forum, 17 January 2013. Chair: Quality Care in Kidney Cancer Session.

Finelli A: University of Manitoba, Ontario, Canada, 19 February 2013. Visiting Professor: Update in the medical management of Advanced Prostate Cancer.

Finelli A: Issues and Controversies in Prostate Cancer, British Columbia, Canada, February 2013. Lecturer: 1/ Image guided focal therapy; 2/ HIFU Hemiablation; 3/ Workshop Lead: Clinical Pearls in Managing Patients with low risk prostate cancer on Active Surveillance.

Finelli A: Canadian Urological Association Laproscopic and Robotic Surgery course, Ontario, Canada, 18 June 2013. Invited Lecturer: Robotic Surgical Instrumentation: What to use and when.

Fleshner NE: New York University Post-Graduate Medical School, New York, United States, 2012. Invited Speaker: Surgical, Pharmacological and Technological Advances in Urology.

Fleshner NE: American Urology Association, Atlanta, Georgia, United States, 2012. Speaker: Utility of PSA in the reduction by dutasteride of clinical progression of events in expectant management of prostate cancer (REDEEM) study.

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: North American Neuromodulation Society, Las Vegas, Nevada, United States, 6 December 2012. Chair and Moderator: Gastroenterology/Genitourinary.

Hassouna MM: PACS, Dubai, United Arab Emirates, 7-8 February 2013. 1/ Chair: ICS/PACS joint Annual Meeting Neurourology Session. 2/ Invited Speaker: The Role of Botulinum Toxins in the Lower Urinary Tract. 3/ Distinguished Speaker: The Role of Botulinum Toxins in the Lower Urinary Tract. 4/ Distinguished Speaker: Pelvic Neuromodulation: Expanding the Horizon.

Hassouna MM: Berlin, Germany, 11 June 2013. 1/ Chair: Neuromodulation for Pelvic Organ Motility Disorders. 2/ Distinguished Speaker: Neuromodulation for Sexual Dysfunction.

Jewett M: International Symposium of Uro-Oncology, New York, United States, August 2012. Invited Speaker: Local Disease after Primary Treatment.

Jewett M: World Urological Oncology Federation, Furkuoka, Japan, September 2012. Invited Speaker: Update on the Management of Small Renal Masses.

Jewett M: Societe International d'Urologie, Furkuoka, Japan, October 2012. 1/ Presenter: Is Testosterone Replacement Safe in Men With or At Risk for Prostate Cancer? 2/ Chair: Small Renal Masses: Active Surveillance vs. Nephrectomy.

Jewett M: Austin Hospital, Texas, United States, November 2012. Invited Lecturer: 2012 Harold Stone Lecture.

Jewett M: European Association of Urology, Milano, Italy, 17 March 2013. Invited Speaker: How to survive a small renal mass - Pro Observation.

Jewett M: International Kidney Cancer Coalition, London, City of, United Kingdom, April 2013. Invited Speaker: 1/ Kidney Cancer Guidelines from Around the World. 2/ Kidney cancer survivorship careplans.

Jewett M: Saudi Urological Association, Al Bah, Saudi Arabia, April 2013. Invited Speaker: 1/ Frontiers in Kidney Cancer: Personalizing the Management of Small Renal Masses. 2/ Management of stage I germ cell tumours.

Kulkarni G: Princess Margaret Hospital Uro-Oncology Dialogue 2012, Niagara on the Lake, Ontario, Canada, 14 September 2012. 1/ Invited Speaker: Pitfalls and Traps: Update on Upper Tract Urothelial Carcinoma. 2/ Moderator: Bladder and Upper Tract Urothelial Cancer Session.

Kulkarni G: SIU Congress, Japan, 1 October 2012. Speaker: 1/ Results of a National Population-based Study of Outcomes of Surgery for Renal Tumours Associated with Inferior Vena Cava Thrombus podium. 2/ The Role of Dutasteride in Preventing BPH-Associated Clinical Progression Among Asymptomatic Men with an Enlarged Prostate podium.

Kulkarni G: Bladder Cancer Canada, Toronto, Ontario, Canada, 25 May 2013. Invited Speaker: Medical Overview of Bladder Cancer.

Kulkarni G: Canadian Urological Association, Ontario, Canada, June 2013. Moderator Podium Session: Testes and Other Oncology.

Matthew A: Princess Margaret Hospital, Niagara-On-The-Lake, Ontario, Canada, 15 September 2012. Invited Speaker: Survivorship Issues: I'm cured! Why am I depressed? Uro-Oncology Dialogue.

Matthew A: Cancer Care Ontario, Toronto, Ontario, Canada, 19 November 2012. Invited Speaker: The Psychosocial Impact of Sexual Dysfunction Post-Prostate Cancer Treatment Provincial Psychosocial Oncology Rounds.

Matthew A: Canadian Urologic Association, King City, Ontario, Canada, 13 January 2013. Invited Speaker: Sexual Rehabilitation: Surviving Intimacy Foster the Partnership 2: GU Cancers Survivorship Conference 2013.

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.

Matthew A: Bladder Cancer Canada, Toronto, Ontario, Canada, 25 May 2013. Invited Speaker: Bladder Cancer and Quality of Life.

Matthew A: Canadian Urological Association, Niagara Falls, Ontario, Canada, 24 June 2013. Presenter: Health-related Quality of Life Following Radical Prostatectomy: Long-term Outcomes.

Radomski SB: Canadian Academy of Academic Urologists, Niagara Falls, Ontario, Canada, 22 June 2013. Invited Lecturer: Canadian Urological Manpower Issues.

Research and Investigations

A bio-psychosocial sexual health intervention for prostate cancer survivors and their partners: A feasibility study. Matthew A, Alibhai SM, Davison BJ, Finelli A, Fleshner N, Morales C, Trachtenberg J, Panzarella T, Currie K, Jamnicky L. Canadian Cancer Society Research Institute (CCSRI). (\$137,235 2013 - 2015).

APPLY: Multi-Institutional implementation of image guided focal therapy. Trachtenberg J, Chin J, Bauman G, Haider M, Romagnoli C, Ward J, Fenster A. OICR. (\$651,450 2012 - 2016).

Biopsy Avoidance in Patients At Risk For Prostate Cancer and in Patients With Low Risk Prostate Cancer: Developing Tools for Personalized Medicine. Kulkarni G. Canadian Urological Association, Canadian Urological Association Scholarship Fund. (\$40,000 2012 - 2014).

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).

Development, implementation and evaluation of an enhanced data capture system for accurate risk stratification of patients with newly diagnosed prostate cancer. Finelli A. Cancer Care Ontario. (\$99,970 2012 - 2013).

Estimation of bladder volume from sacral nerve root recordings. Hassouna M. PSI Foundation. (\$126,000 2012 - 2014).

Focal MR-Guided Focused Ultrasound Treatment of Localized Low-Risk Prostate Cancer: Feasibility Study. Ghai S, Trachtenberg J, Kucharczyk W, Haider M, Lindner U, van der Kwast T, McCluskey S. InSightec-TxSonics Inc. (Apr 2012 - Apr 2013).

Kidney Cancer Research Network of Canada. Jewett M. Canadian Institutes of Health Research (CIHR), Network Catalyst - Institute of Cancer Research. (\$600,000 2012 - 2015).

NanoMed Fab: A nanofabrication centre for personalized medicine. Zheng G, Wilson B, Chan W, Li R-K, Jaffray D, Lu M, Valliant J, Allen C, Rottapel R, Trachtenberg J. Canadian Foundation of Innovation Infrastructure Grant. (\$6,530,679 2010 - 2014).

Neurocognitive and psychosocial functioning in young adult cancer survivors: a prospective, longitudinal study. Edelstein K, Aubin S, Batist G, Bernstein L, Crump M, D’Agostino N, Hodgson D, Kavan P, Matthew A, Muanza T, Schuh A, Vuong T. Canadian Cancer Society Research Institute (CCSRI). (\$299,754 2013 - 2016).

Porphyrin-enabled focal laser ablation of prostate cancer. Zheng G, Wilson B, Trachtenberg J. Prostate Cancer Foundation of Canada. (\$150,000 2012 - 2015).

The effects of acute exercise on the neurophysiological outcomes in prostate cancer patients: A randomized controlled trial. Santa Mina D, Guglietti CL, Ritvo P, Matthew AG, Alibhai SMH, Trachtenberg J, Daskalakis J. University of Guelph-Humber Research Fund. (\$9,889 2012 - 2012).

Utilizing Personalized Medicine to Improve Patient Management in Aggressive Kidney Cancer: Identification of Prognostic and Predictive Markers via MicroRNA Profiling. Yousef G, Bjarnason GA, Jewett M, Evans A. Kidney Foundation of Canada. (\$146,550 2010 - 2013).

Honours Received

Finelli A: Faculty Postgraduate Teaching Award Clinical, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. 2013 – 2013.

Hamilton R: University Health Network Honour Your Hero award, University Health Network. Dec 2012.

Hamilton R: University Health Network Honour Your Hero award, University Health Network. Feb 2013.

Hamilton R: Clinical Teaching Award, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Jun 2013.

Hamilton R: Canadian Urological Association Scholarship Foundation (CUASF) Research Award, Canadian Urological Association. Jun 2013.

Jewett M: Queen Elizabeth II Diamond Jubilee Medal, The Governor General of Canada. Nov 2012.

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.

Trachtenberg J: Queen Elizabeth II Diamond Jubilee Award. Nov 2012.

Division of Vascular Surgery

Dr. K.W. Johnston	Professor	Dr. B.B. Rubin	Professor
Dr. R.F. Lindsay	Professor (Division Head)	Dr. L. Tse	Assistant Professor
Dr. G. Oreopoulos	Assistant Professor	Dr. D.L. Wooster	Professor
Dr. G. Roche-Nagle	Assistant Professor		

Publications

Dutta P, Courties G, Wei Y, Leuschner F, Gorbato R, Robbins CS, Iwamoto Y, Thompson B, Carlson AL, Heidt T, Majmudar MD, Lasitschka F, Etzrodt M, Waterman P, Waring MT, Chicoine AT, van der Laan AM, Niessen HW, Piek JJ, Rubin BB, Butany, J, Stone JR, Katus HA, Murphy SA, Morrow DA, Sabatine MS, Vinegoni C, Moskowitz MA, Pittet MJ, Libby P, Lin CP, Swirski FK, Weissleder R, Nahrendorf M. Myocardial infarction accelerates atherosclerosis. *Nature*. 2012; 19;487(7407):325-9.

Huang SS, Banner D, Degousee N, Leon AJ, Xu L, Paquette SG, Kanagasabai T, Fang Y, Rubino S, Rubin B, Kelvin DJ, Kelvin AA. Differential pathological and immune responses in newly weaned ferrets are associated with a mild clinical outcome of pandemic 2009 H1N1 infection. *Journal of Virology*. 2012; 86(24):13187-201.

Lok CE, Sontrop JM, Tomlinson G, Rajan D, Cattral M, Oreopoulos G, Harris J and Moist L. Cumulative patency of contemporary fistulas versus grafts (2000-2010). *Clin J Am Soc Nephrol*. 2013 May;8(5):810-8.

Oreopoulos G, Moloney T. The Peripheral Vascular Exam. *The Essentials of Clinical Examination Handbook*. 7. 2013 May.

Paquette SG, Banner D, Zhao Z, Fang Y, Huang SS, Le n AJ, Ng DC, Almansa R, Martin-Loeches I, Ramirez P, Socias L, Loza A, Blanco J, Sansonetti P, Rello J, Andaluz D, Shum B, Rubino S, de Lejarazu RO, Tran D, Delogu G, Fadda G, Kraiden S, Rubin BB, Bermejo-Martin JF, Kelvin AA, Kelvin DJ. Interleukin-6 Is a Potential Biomarker for Severe Pandemic H1N1 Influenza A Infection. *Public Library of Science One*. 2012; 7(6):e38214.

Shek LT, Tse LW, Nabovati A, Amon CH. Computational Fluid Dynamics Evaluation of the Cross-Limb Stent Graft Configuration for Endovascular Aneurysm Repair. *Journal of Biomechanical Engineering*. 2012 Dec: 134(12).

Tse LW. Commentary: First Clinical Case of Antegrade In Situ Fenestration of an Aortic Stent-Graft. *Journal of Endovascular Therapy*. 2012; 19:721-722.

Roche-Nagle G, Bachynski K, Nathens AB, Angoulvant D, Rubin BB. Regionalization of services improves access to emergency vascular surgical care. *Vascular*. 2013 Mar 18. 10.1258/vasc.2012.0a0354.

Wong SS, Roche-Nagle G and Oreopoulos G. Acute thrombosis of an abdominal aortic aneurysm presenting as cauda equina syndrome. *J Vasc Surg*. 2013 Jan;57(1):218-20.

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.

Lindsay TF: IX Meeting of North East Angiology and Vascular Surgery of Brazil, Rio de Janeiro, Brazil, 18-19 October 2012. 1/ Invited Lecturer: The Role of Clinical Treatment in Reducing Stroke in an at Risk Population Group: Summpris Trial. 2/ Distinguished Speaker: AAA Screening: What is the latest data. 3/ Distinguished Speaker: Aneurysm Repair using Fenestrated Grafts.

Lindsay TF: Winnipeg Vascular and Endovascular Symposium, Winnipeg, Canada, 19-20 April 2013. 1/ Distinguished Speaker: Is it Possible to be a Vascular Surgeon Scientist? 2/ Moderator - Education and Manpower.

Oreopoulos G: Winnipeg Vascular & Endovascular Symposium, Winnipeg, Manitoba, Canada, 19 April 2013. Presenter: Case report.

Roche-Nagle G: Hamilton Vascular, Hamilton, Ontario, Canada, July 2012. Invited Speaker: Vascular Quality Initiative at Toronto General Hospital.

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 L: Canadian Society of Vascular Nursing, Quebec City, Quebec, Canada, 27 September 2012. Invited Speaker: Management of Carotid Artery Disease.

Tse L: 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.

Tse L: International Conference on Medical Textiles and Healthcare Products (MedTex13), Raleigh, North Carolina, United States, May 2013. Invited Speaker: Vascular Textiles - Durability Vascular Textiles - Durability.

Wooster DL: AVID, New York, United States, 17 November 2012. Invited Speaker: 1/ Carotid and Subclavian Artery Findings with Hybrid Thoracic Endovascular Procedures. 2/ Use of a Site - Visit Peer Assessment of Ultrasound Facilities for Quality Improvement.

Wooster DL: TEC, Toronto, Ontario, Canada, 12 April 2013. Invited Speaker: 1/ Overview and Aims of the Conference. 2/ Where are We and Where Should We Be with Carotid Angioplasty and Stenting? 3/ Managing and Monitoring Patients after Carotid Angioplasty and Stenting. 4/ Iliofemoral Deep Vein Thrombosis. 5/ Dialysis Access.

Wooster DL: VITO, Ontario, Canada, 13 April 2013. Invited Speaker: 1/ Carotid Challenges. 2/ Aortic and Visceral Artery Ultrasound - Standards and Guidelines. 3/ Demonstrating Quality in Practice. 4/ Aortic Ultrasound in Practice. 5/ Peripheral Artery Assessment and Interpretation. 6/ Assessment for Deep Vein Thrombosis. 7/ Carotid Duplex Ultrasound - Standards and Guidelines. 8/ “Streamlined” Protocols: Efficient or Useless?

Wooster DL: Winnipeg Vascular and Endovascular Meeting, Division of Vascular Surgery, Department of Surgery, University of Manitoba, Winnipeg, Manitoba, Canada, 19 April 2013. Invited Speaker: Cognitive Changes with Carotid Endarterectomy.

Wooster DL: Canadian Conference on Medical Education, Quebec City, Quebec, Canada, 21 April 2013. Presenter: CE/PD Strategies in Guideline Implementation: A CANMEDS Perspective.

Wooster DL: Vascular and Endovascular Surgery, Department of Surgery, School of Medicine, Stanford University, Stanford, California, United States, 28 May 2013. Invited Speaker: Cognitive Changes with Carotid Disease Management.

Wooster DL: Society for Vascular Ultrasound, San Francisco, California, United States, 30 May 2013. 1/ Presenter: Impact of Guidelines in Vascular Ultrasound Practice. 2/ Invited Speaker: Vascular Anomalies of Importance in Ultrasound.

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).

Taking Back the Educational Curriculum - an Environmental Scan to Assess the Status of CEPD in Vascular Residency Training. Wooster D, Greco E, Dueck A, Wooster E. Canadian Society for Vascular Surgery, Provan Award. (\$5,000 2011 - 2012).

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

Wooster DL: Colin R Woolf Excellence in Teaching, Vascular Surgery, Dept of Surgery, Faculty of Medicine, Continuing Education and Professional Development. Jul 2012 - Jun 2013.





Women's College Hospital

John Semple, *Surgeon-in-Chief*

Heads Of Divisions

Orthopaedic Surgery	Dr. John Theodoropoulos
Plastic Surgery	Dr. John Semple

Staff Surgeons

Dr. Mitchell H. Brown	Dr. Ethan Grober
Dr. Jaskarndip Chahal	Dr. Lavina Lickley
Dr. Tulin Cil	Dr. Lucas Murnaghan
Dr. Karen Devon	Dr. John Theodoropoulos

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 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. Status Update: Whose Photo Is That? *Journal of the American Medical Association.* 2013; 309 (18); 1-2. 2013 May 8.

Devon KM. Clinical Review: Patient expectations about the effect of chemo. 2013 May.

Helwick C, Cil T. Double the Mastectomy, Double the Complications. *The ASCO Post.* Issue 9. Volume 4. Acknowledged in Publication (Not Author). 2013 Jun 10. URL: <http://www.ascopost.com/issues/june-10,-2013/double-the-mastectomy,-double-the-complications.aspx>.

Kagedan D, Rae R, Van Deward K, Zhang P. General Surgery. In: *MCCQE Toronto Notes 2012.* Toronto Notes For Medical Students, Toronto, 2012.

Kaplan EL, Devon KM, Grogan RH, Angelos P. Pain, suffocation, sanguination, suppuration, and hysteria: a short history of problems associated with early thyroid surgery with particular reference to the recurrent laryngeal nerve. *The Supreme Triumph of the Surgeon's Art. A Narrative History of Endocrine Surgery.* 1-18. 2013.

Meiers P, Cil T, Guller U, Zuber M. Sentinel lymph node biopsy: Improved outcomes through better staging? *Langenbeck's Archives of Surgery.* 398.5.687-690. 687-690. 2013 Jun. PMID: 23229913. AID: 10.1007/s00423-012-1037-2.

Metcalfe KA, Quan ML, Eisen A, Cil T, Sun P, Narod SA. The impact of having a sister diagnosed with breast cancer on cancer-related distress and breast cancer risk perception. *Cancer.* 119.9.1722-8. 1722-8. 2013 May. PMID: 23400407. AID: 10.1002/cncr.27924.

O'Leary P, Cil T, Lehane E, Corrigan M. Chapter 4: E-learning in the 21st Century – The 2.0 Generation. *E-Learning: New Technology, Applications and Future Trends.* 2013.

Pashtan I, Grogan RH, Kaplan SP, Devon K, Angelos P, Liu D, Kaplan EL. Primary hyperparathyroidism in adolescents: the same but different. *Pediatric Surgery International*. 29.3.275-9. 275-9. 2013 Mar.

Olszewski M, Luu S, Moulton CA, Cil T. What surgeons can learn from elite athletes: A review of mental practice and visual imagery. *Journal of Surgical Education*. 2013 Jun 10.

Olszewski M, Roberts N, Moulton CA, Murnaghan ML, Cil T. How surgeons think: An exploration of mental practice in surgical preparation. *Canadian Journal of Surgery*. 2012; 55 (Supp): pp 82. 2012 Aug.

Osman F, Saleh F, Corrigan MA, Jackson T, Cil T. Increased Postoperative Complications in Bilateral Mastectomy Patients Compared to Unilateral Mastectomy: An Analysis of NSQIP Data. *Annals of Surgical Oncology*. 2013 May 2.

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.

Cil T: The Bill Carroll Show- AM 640 Radio, Toronto, Ontario, Canada, 14 May 2013. Invited Speaker: Cil T Prophylactic Mastectomies Radio interview about genetic testing for BRCA 1 & 2 and prophylactic mastectomies.

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

Patient Accessed Tailored Information (PATI) for Breast Cancer. Cil T, Corrigan M, Semple J, Verma S, Eysenbach G, Catton P. Canadian Breast Cancer Foundation (CBCF). (\$385,000 2012 - 2015).

Smartphones and Patient Care: Exploring the use of text-based messaging for patient related communication. Cil T, Goldfarb J, Kayssi A, Devon K, Rossos P. University of Toronto, CREMS. (\$2,750 2013).

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).

Visual Imagery and Mental Rehearsal in Surgery. Cil T, Moulton CA, Murnaghan ML, Roberts N. Physicians Services Incorporated Foundation (The) (PSI). (\$13,500 2012 - 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

Chahal J, Bush-Joseph CA, Chow A, Zelazny A, Mather RC, Lin E, Gupta D, Verma NN. Clinical and magnetic resonance imaging outcomes following surgical repair of complete proximal hamstring ruptures: Does the tendon heal? *Am J Sports Med*. 2012 Oct;40(10):2325-2330.

- Chahal J, Gross AE, Gross C, Mall NA, Dwyer T, Chahal A, Whelan DB, Cole BJ.** Outcomes of osteochondral allografts in the knee – A systematic review. *Arthroscopy*. 2013 Mar; 29(3):575-88.
- Chahal J, Mall N, Van Thiel G, Cole BJ, Romeo AA, Verma NN, Macdonald PB.** Author's Reply. *Arthroscopy*. 2012 Aug; 28(8):1048-9.
- Chahal J, Tomescu S, Ravi B, Bach BR, Ogilvie-Harris DJ, Mahomed NN, Gandhi R.** Publication of sports medicine randomized controlled trials registered in ClinicalTrials.gov. *Am J Sports Med*. 2012 Sep; 40(9): 1970-1977.
- Chahal J, Van Thiel GS, Hussey K, Cole BJ.** Managing the patient with failed cartilage restoration. *Sports Med Arthrosc*. 2013 Jun;21(2):62-8.
- Cvetanovich GL, Mall NA, Van Thiel GS, Chahal J, Bach BR, Jr.** Screw Fixation of an OCD Loose Body: 21-year Results. *Journal of Knee Surgery*. 2012 May 15 epub ahead of print.
- De Maio P, White L, Theodoropoulos JS.** Diagnostic Accuracy of an iPhone DICOM Viewer for the Interpretation of Magnetic Resonance Imaging of the Knee. *Clinical Journal of Sports Medicine*. Epub ahead of print.
- Dold A, Dwyer T, Taylor D, Theodoropoulos JS.** Platelet rich plasma in the management of articular cartilage pathology: a systematic review. *Clinical Journal of Sports Medicine*. Epub ahead of print.
- Dwyer T, Ogilvie-Harris D, Wadey V, Hodges B, Theodoropoulos J, Semple J.** Assessing competence of orthopaedic residents: Use of an Objective Structured Clinical Examination (OSCE) after a sports medicine rotation. *Journal of Bone and Joint Surgery*. Epub ahead of print.
- Dwyer T, Petrera M, Bleakney R, Theodoropoulos JS.** Shoulder Instability in Ice Hockey Players: Incidence, Mechanism and MRI findings. *Clinics in Sports Medicine*. 2013 May;32(4):803-8.
- Frank RM, Chahal J, Verma NN.** Chapter: Partial Thickness Rotator Cuff Tears in Shoulder Arthroscopy: Principles and Practice. Springer, 2013. Giuseppe Milano.
- Gross CET, Chalmers P, Chahal J, Van Thiel GS, Cole BJ, Bach BR, Romeo AA.** An evidence-based review of the management of focal and diffuse cartilage defects in the glenohumeral joint. *Arthroscopy*. 2012 Dec;28(12):1889-1901.
- Gross CE, Hsu AR, Chahal J, Holmes GB.** Injectable Treatments for Non-Insertional Achilles Tendinosis: A Systematic Review. *Foot Ankle Int*. 2013 May;34(5):619-28.
- Heard WMR, Chahal J, Bach BR Jr.** Recognizing and managing complications in anterior cruciate ligament reconstruction. *Sports Med Arthrosc*. 2013 Jun;21(2):106-12.
- Jordan MA, Van Thiel GS, Chahal J, Nho SJ.** Operative treatment of chondral defects in the hip joint: A systematic review. *Curr Rev Musculoskelet Med*. 2012 Sep; 5(3):244-253.
- Leung A, Luu S, Regehr G, Murnaghan ML, Gallinger S, Moulton CA.** First Do No Harm: Balancing competing priorities in surgical practice. *Academic Medicine*. October 2012, 87(10): 1368-1374
- Luu S, Patel P, St-Martin L, Leung SOA, Regehr G, Murnaghan ML, Gallinger S, Moulton CA.** Waking up the next morning: Surgeons' emotional reactions to adverse events. *Medical Education*. December 2012; 46(12): 1179-1188.
- Mall N, Chahal J, Heard W, Bach BR, Bush-Joseph CA, Romeo AA, Verma NN.** A systematic review of outcomes following arthroscopic or open surgical repair of isolated subscapularis tendon tears. *Arthroscopy*. 2012 Sep; 28(9): 1306-1314.
- Mall NA, Chahal J, Lee AS, Sherman SL, Romeo AA, Verma NN, Cole BJ.** An evidence-based examination of the epidemiology and outcomes of traumatic rotator cuff tears: Timing of repair. *Arthroscopy*. 2013 Feb; 29(2):377-386.
- Mall NA, Lee AS, Chahal J, Verma NN, Romeo AA, Cole BJ.** Transosseous equivalent rotator cuff repair: A systematic review demonstrating the importance of tying the medial row. *Arthroscopy*. 2013 Feb; 29(2): 366-376.
- Petrera M, Dwyer T, Ogilvie-Harris D, Theodoropoulos JS.** Treatment overview for chondral defects in the athlete's knee. *Minerva Ortopaedica and Traumatology*. 2013 Jun.
- Petrera 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.

Ravi B, Escott B, Shah PS, Jenkinson R, Chahal J, Bogoch E, Kreder H, Hawker G. A systematic review and meta-analysis comparing complications following total joint arthroplasty for rheumatoid arthritis versus for osteoarthritis. *Arthritis Rheum.* 2012 Dec;64(12):3839-49.

Slikker W, Van Thiel GS, Chahal J, Nho SJ. The Use of Double-Loaded Suture Anchors for Labral Repair and Capsular Repair During Hip Arthroscopy. *Arthrosc Tech.* 2012 Nov 2; 1(2):e213-7.

Slikker W, Van Thiel GS, Chahal J, Nho SJ. Hip Instability and Arthroscopic Techniques for Complete Capsular Closure and Capsular Plication. *Operative Techniques in Sports Medicine.* 2012 December; 20(4): 301-309.

Theodoropoulos JS, Dwyer T, Wolin P. Correlation of MRI and Arthroscopy in the Diagnosis of Chondral Injuries of the Elbow. *Clinical Journal of Sports Medicine.* 2012 Sep; 22(5):403-7.

Whelan DB, Dainty K, Chahal J. Efficient designs: Factorial randomized trials. *J Bone Joint Surg Am.* 2012 Jul 18; 94 Suppl 1:34-38.

Invited Visits

Chahal J: 2013 AAOS Annual Meeting, Chicago, Illinois, 19-23 March 2013. 1/ Presenter: The multiligament quality of life (ML-QOL) questionnaire – development and testing of measurement properties of a novel disease specific instrument in patients with multiligament knee injuries. 2/ Exhibitor: Anterior Cruciate Ligament Reconstruction – Observations on 25 Years of Experience.

Chahal J: Pan Am Clinic, University of Manitoba, Winnipeg, Manitoba, 12-13 April 2013. Instructor: ConMed/Linvatec Shoulder Arthroscopy Course: “Shoulder Instability – State of the Art”.

Chahal J: 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Ontario, 12-16 May 2013. 1/ Instructor: Arthroplasty Options – Total Shoulder Arthroplasty, the Only Way to Go. 2/ Speaker: The multiligament quality of life (ML-QOL) questionnaire – development and testing of measurement properties of a novel disease specific instrument in patients with multiligament knee injuries.

Chahal J: 2013 Annual Meeting of the Canadian Orthopaedic Association, Winnipeg, Manitoba, 20 June 2013. Speaker: The role of surgery for acute and chronic hamstring injuries.

Murnaghan L: Postgraduate Education Conference. Chilean Orthopaedic and Traumatology Society. Santiago, Región Metropolitana de Santiago, Chile. 21 Nov 2012. Visiting Professor: Continuing Education.

Murnaghan L: Pediatric Sports Medicine and Trauma Symposium. Rocky Mountain Hospital for Children, POSNA, AOSSM. Vail, Colorado, United States, 22 Jan 2013. Invited Speaker: Sternoclavicular Dislocations and Fractures.

Murnaghan L: Cartilage Symposium. University of Pennsylvania. Philadelphia, Pennsylvania, United States. 27 Apr 2013. Invited Speaker: Osteochondritis Dissecans of the Knee.

Murnaghan L: Pediatric Orthopaedic Society of North America – Annual Meeting. Sports Medicine Subspecialty Day, Toronto, Ontario, Canada. 4 May 2013. Invited Speaker: Hip Arthroscopy.

Murnaghan L: International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine and FIFA. FIFA - ISAKOS Course - Soccer Injuries. Toronto, Ontario, Canada. 11 May 2013. Invited Speaker: Pediatric and Adolescent Knee Injuries in Soccer.

Murnaghan L: The Canadian Orthopaedic Association. Winnipeg, Manitoba, Canada, 19-21 Jun 2013. 1/ Presenter: Fellow Selection in Orthopaedics: A Qualitative Study. 2/ Invited Speaker: Top 10 Questions asked by Orthopaedic Fellows - Education Symposium. 3/ Fellowship Training in Orthopaedics and Transition to Practice.

Theodoropoulos J: American Orthopaedic Society of Sports Medicine, Toronto, Ontario, Canada, 24 August 2012. Invited Speaker: Keep Your Edge: Hockey Sports Medicine in 2012 Foot and Ankle Injuries in the NHL.

Theodoropoulos J: Clearwater Arthroscopy Meeting, Clearwater, Florida, United States, 6 December 2012. Invited Speaker: Examining the Feasibility of a Mobile Web Based Follow-Up System for Post-Operative ACL Reconstruction Patients.

Theodoropoulos J: Arthroscopy Association of North America, San Antonio, Texas, United States, 20 April 2013. Effect of Tissue Processing on Clinical Outcomes of Primary Anterior Cruciate Ligament Reconstruction Using Allograft.

Theodoropoulos J: Arthroscopy Association of North America, San Antonio, Texas, United States, 25 April 2013. Examining the Feasibility of a Mobile Web Based Follow-Up System for Post-Operative ACL Reconstruction Patients.

Theodoropoulos J: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20 June 2013. Analysis Of The Accuracy Of Arthroscopic Placement In The Antero-Inferior Glenoid.

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.

Theodoropoulos J: Canadian Orthopaedic Association Meeting, Ontario, Canada, June 2013. Moderator and Speaker: Rotator Cuff Repair, Tips and Tricks.

Research and Investigations

Mental Imagery in Surgery - A Qualitative Study. Cil T, Murnaghan M, Moulton CA. PSI. (\$13,500 2012-2013).

Simulation Team Training and Critical Event Checklist use for optimizing the management of critical preoperative events in an ambulatory surgical facility. Morgan P, Tregunno D, Brydges R, Carnahan H, Kurrek M, Murnaghan ML, Semple J, Bell S, Groff N, Forde D. CMPA (\$49,663 2013-2014).

Division of Plastic & Reconstructive Surgery

Dr. M.H. Brown	Associate Professor
Dr. J.L. Semple	Professor (Division Head)

Publications

Brown MH. Secondary breast augmentation. In: Plastic Surgery, 3rd Edition (Breast) - Neligan P, (James C. Grotting Ed.). Elsevier. 2012.

Daividge K, Morgan P, Brown M, Semple J. Process of Care in Autogenous Breast Reconstruction with Pedicled Tram Flaps: Expediting Postoperative Discharge in an Ambulatory Setting. Canadian Journal of Plastic Surgery. 2012: Abstract #: pp 36.

Dwyer T, Hynes M, Leroux T, Wasserstein D, Nousiainen M, Murnaghan L, Ferguson P, Takahaschi SG, Wade V, Semple J, Ogilvie-Harris D. Orthopaedic residents' understanding and application of CanMEDS Roles: Assessment using an Objective Structured Clinical Examination (OSCE). Medical Education. 47.Supplement s1. 1-128. 2013 May.

Dwyer T, Theodoropoulos J, Herold J, Henry P, Wasserstein D, Murnaghan ML, Wade V, Hodges B, Semple J, Ogilvie-Harris D. Assessing competency of orthopaedic residents: Use of an Objective Structured Clinical Examination (OSCE) after a sports medicine rotation. The Journal of Bone & Joint Surgery. 2013 May 14.

Dwyer T, Theodoropoulos J, Herold J, Henry P, Wasserstein D, Murnaghan ML, Wade V, Hodges B, Semple J, Ogilvie-Harris D. Assessing in-training competency of orthopaedic residents: Use of an Objective Structured Clinical Examination (OSCE) after a sports medicine rotation. Medical Education. 47.Supplement s1. 1-128. 2013 May. Moore GW, Semple JL. A tale of two climbers: hypothermia, death, and survival on mount everest. High Altitude Medicine & Biology. 2012: 13(1): pp 51-6. 2012.

Moore K, Semple J, Cristofanelli P, Bonasoni P, Stocchi P. Environmental conditions at the South Col of Mount Everest and their impact on hypoxia and hypothermia experienced by mountaineers. Extreme Physiology & Medicine. 1(1): 2. 2012 Sep 4.

Morgan PJ, Cunningham L, Mitra S, Wong N, Wu W, Noguera V, Li M, Semple JL. Surgical safety checklist: implementation in an ambulatory surgical facility. Canadian Journal of Anesthesia. Epub ahead of print. 2013 Jun.

Rottman SJ, Brown MH, Glicksman C, Al-Attar A, Spear S. Late seromas after breast implants: Theory and practice. *Plastic and Reconstructive Surgery*. 130.2.423-435.V.130, Number 2, pages 423-435. 2012 Aug.

Semple J, Metcalfe KA, Lynch HT, Kim-Sing C, Senter L, Pal T, Ainsworth P, Lubinski J, Tung N, Eng C, Gilchrist D, Blum J, Neuhausen SL, Singer CF, Ghadirian P, Sun P, Narod SA, The Hereditary Breast Cancer Clinical Study Group. International Rates of Breast Reconstruction After Prophylactic Mastectomy in BRCA1 and BRCA2 Mutation Carriers. *Annals of Surgical Oncology*. 2013 Jun 6. Ahead of Print.

Semple J, Metcalfe K, Ping S, Narod S. International predictors in rates of reconstruction following prophylactic mastectomy in BRCA1 and BRCA2 mutation carriers. *Canadian Journal of Plastic Surgery*. 2012: 62.

Invited Visits

Brown MH: Allergan, Dallas, Texas, United States, 28 July 2012. Invited Speaker: Use of the 410 implants in breast augmentation - Clinical Advisory Board.

Brown MH: Northeast Society of Plastic Surgeons, Boston, Massachusetts, United States, 28 September 2012. Invited Speaker: Revision breast surgery.

Brown MH: American Society of Plastic Surgeons, New Orleans, Louisiana, United States, 27-29 October 2012. 1/ Panel member: Managing breast ptosis. 2/ Invited visitor: Managing ptosis following breast augmentation. 3/ Panel Moderator: Minimizing re-operations in the breast implant patient. 4/ Invited Speaker: Instructional course on revising the unsatisfactory breast implant patient. 5/ Invited Speaker: Instructional course on revising the unsatisfactory aesthetic breast.

Brown MH: Southeastern Society of Plastic and Reconstructive Surgeons - Atlanta Breast Surgery Symposium, Atlanta, Georgia, United States, 11-14 January 2013. Invited Speaker: 1/ ADM in revision breast implant surgery. 2/ Live surgery telecast. Primary breast augmentation with textured implants.

Brown MH: Allergan National Academy, Laguna Beach, California, United States, 19 January 2013. Invited Speaker: Options in breast surgery.

Brown MH: Allergan Academy, Ecuador, 7 February 2013. Invited Speaker: Management of complications in breast implant surgery.

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.

Brown MH: Allergan Asia, Seoul, Seoul Teugbyeolsi [Seoul-T'ukpyolshi], Korea, Republic Of, 11-12 February 2013. Invited Speaker: 1/ Surgical techniques and refinements in breast implant surgery. 2/ Imaging in breast implant surgery. 3/ Implant selection in breast augmentation.

Brown MH: University of Manitoba, Winnipeg, Manitoba, Canada, 5 April 2013. Visiting Professor: Managing complications in breast surgery.

Brown MH: Allergan Academy, New York, New York, United States, 11 April 2013. Invited Speaker: The use of shaped implants in breast reconstruction
Brown MH: American Society of Aesthetic Plastic Surgery, New York, New York, United States, 16 April 2013. Invited Speaker: Auto-augmentation mastopexy.

Brown MH: Allergan Academy, Charlotte, North Carolina, United States, 20 April 2013. Presenter: Implant workshop.

Brown MH: Beauty Through Science, Stockholm, Sweden, 29 May 2013. 1/ Invited Speaker: Instructional course on revision techniques in breast surgery. 2/ Invited Speaker: Management of capsular contracture. 3/ Panel Moderator: Options in breast implants.

Semple JL: Canadian Breast Cancer Foundation (CBCF) & CIHR Institute of Cancer Research (ICR) Workshop, Montreal, Quebec, Canada, 13-14 September 2012. Speaker: Canadian research opportunities for addressing Breast Cancer in young women.

Semple JL: University of British Columbia, Division of Plastic Surgery, Vancouver, British Columbia, Canada, 24 October 2012. Invited Speaker: 1/ Using Smart Phone Technology for Postoperative Monitoring of Surgical Patients at Home. 2/ A Surgeon on Everest.

Semple JL: Wellspring Cancer Support Foundation, Toronto, Ontario, Canada, 30 October 2012. Speaker: Breast Reconstruction Surgery: the latest facts.

Semple JL: Southwestern Ontario Surgical Association, Annual Meeting, London, Ontario, Canada, 16 November 2012. Guest Speaker: Surgeons with Altitude: Lessons in Life from Mount Everest.

Semple JL: Rogers and Samsung Canada, Toronto, Ontario, Canada, 28 November 2012. Speaker: Mobility: The New Face of Provider & Patient Engagement.

Semple JL: British Association of Plastic, Reconstructive and Aesthetic Surgeons, Winter Meeting, England, London, City of, United Kingdom, 4 December 2012. Speaker: The Toronto Experience with Latissimus Dorsi Flap Breast Reconstruction in an Ambulatory Setting - A Model for the NHS?

Semple JL: Can Ontario Lead in the Global Mobile Revolution - Taking Ontario Mobile Launch Event, Toronto City Hall, Toronto, Ontario, Canada, 16 January 2013. M-Health: Opportunities for Healthcare.

Semple JL: Rogers Communications Inc, Toronto, Ontario, Canada, 28 January 2013. Invited Panelist: Rogers "Connected Canada" Media and Analyst Roundtable - Launch of Wireless Innovation Centre.

Semple JL: 9th Annual Mobile Healthcare Summit, Toronto, Ontario, Canada, 31 January 2013. Improve Patient Care through Mobile Remote Monitoring.

Semple JL: 18th International Hypoxia Symposium, Lake Louise, Alberta, Canada, 2 February 2013. Speaker: Elevated levels of uteroglobin as a biomarker for ozone-induced lung injury in mountaineers diagnosed with hape in the Himalaya.

Semple JL: Rogers Communications Inc., Toronto, Ontario, Canada, 8 February 2013. Invited Speaker: Connected Health Display in Toronto WIC - Discussion.

Semple JL: The University of Western Canada, Vancouver, British Columbia, Canada, 18 April 2013. Visiting Professor: Western University Residents' Day 18-19 April, 2013.

Semple JL: 13th Annual eHealth Summit, Hockley Valley Resort, Orangeville, Ontario, Canada, 1 May 2013. Panelist: Mobility, information privacy and patient engagement.

Semple JL: Apps for Health and Education, Mohawk College, Faculty of Health Sciences, Hamilton, Ontario, Canada, 16 May 2013. Invited Speaker: Patient Centered Technology & Consumer Health.

Semple JL: Discovery Ontario Centre of Excellence, Toronto, Ontario, Canada, 28 May 2013. Panelist: Taking Ontario Mobile: An Action Plan for Leadership in the Mobile Revolution IBM Theatre: Metro Toronto Convention Centre.

Semple JL: The Seven Habits of Highly Intelligent Communities, Toronto, Ontario, Canada, 3 June 2013. Panelist: Open Data and m-Government Applications for Municipal, Provincial and Federal Governments.

Semple JL: Canadian Orthopaedic Association, Winnipeg, Manitoba, Canada, 20-22 June 2013. Assessing in-training competency of orthopaedic residents: Use of an Objective Structured Clinical Examination (OSCE) after a sports medicine rotation.

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

Cassidy D, Jarvi K, Grober ED, Lo K. Varicocele Surgery or Embolization: Which is better? Canadian Urological Association Journal (CUAJ). 2012 Aug;6(4):266-8.

Grober ED. Testosterone Deficiency and Testosterone Replacement Therapy. Canadian Urological Association Book. 2013 Jan.

Grober ED, Bozovic A, Fanipour M, Kulasingam V, Diamandis E. Accuracy of Testosterone Concentrations in Compounded Testosterone Products. Journal of Urology. 2013 Apr;189(4)Supp:e619.

Grober ED, Domes T, Fanipur M, Copp JE. Preoperative Hair Removal on the Male Genitalia: Clippers vs. Razors. Journal of Sexual Medicine. 2013 Feb;10(2):589-94.

Samplaski M, Loai Y, Lo K, Grober ED, Jarvi K. Testosterone Use in the Male Infertility Population: Short and Longer Term Effects on Semen and Hormone Parameters. Journal of Urology. 2013 Apr; 189(4) Supp:e779.

Samplaski M, Loai Y, Lo K, Grober ED, Jarvi K. Testosterone Prescribing Patterns in the Male Infertility Population. Journal of Urology. 2013 Apr; 189(4)Supp:e939.

Invited Visits

Grober ED. Specialists Consultative Meeting (Sponsor – Paladin), Vancouver, British Columbia, Canada, September 2012. Invited Speaker: Treating Low Testosterone and Male Infertility.

Grober ED. Specialists Consultative Meeting (Sponsor – Paladin), Toronto, Ontario, Canada, November 2012. Invited Speaker: Testosterone Replacement Therapy.

Grober ED. Ottawa Heart Summit, Ottawa, Ontario, April 2013. Invited Speaker: Linking Sexual Function and Cardiovascular Disease.

Grober ED. American Urological Association Annual Meeting 2013 San Diego, California, United States, May 2013. Invited Speaker: 1/ Exogenous Testosterone: A Preventable Cause of Male Infertility. 2/ Varicocelectomy as a Treatment of Hypogonadism - Con.

Research and Investigations

A Non-Invasive Assay that Enables Non-Invasive Differentiation between Obstructive and Non-Obstructive Azoospermia. Grober ED, Jarvi KA, Diamandis E, Lo K. MaRS Innovation. Royal College of Physicians and Surgeons of Canada. (\$100,000 2013).

Canadian Urology Resident Laparoscopic Skills Assessments. Grober ED, Lee J, Pace K, Shuler T, Andonian S. Women's College Hospital AFP Innovation Grants. (\$17,500 2013 - 2014).

Canadian Urology Resident Laparoscopic Skills Assessments. Lee J, Grober ED, Pace K, Shuler T, Andonian S, Grantcharov T. Royal College of Physicians and Surgeons of Canada. (\$52,680 2013 - 2014).

Discovery of Genetic Abnormalities Associated with Male Infertility. Grober ED. McLaughlin Centre Accelerator Grants. (\$50,000 2012 - 2013).

Discovery of New Noninvasive Biomarkers to Identify Men With “Spuriously” Elevated PSA Due to Prostate Inflammation. Jarvi KA, Diamandis E, Mullen B, Charames G, Drabovich A, Lo K, Grober ED. Prostate Cancer Canada. (\$199,999 2013).

Male infertility and cancer risk in Ontario: Seeking Common Cause. Jarvi KA, Kanjac P, Mullen B, vanWalraven C, Grober ED. Canada Cancer Society Research Institute. (\$100,000 2012 - 2013).

Non-Invasive Biomarkers to Identify and Grade Prostatic Inflammation. Jarvi KA, Diamandis E, Mullen B, Charames G, Drabovich A, Nickel CJ, Lo K, Grober ED, Gordon A, Maunder B, Hassouna M, Peng P. National Institute of Health. (\$399,999 2013).

Division of Anatomy

Anne Agur	Professor
Barbara Ann Ballyk	Lect. & equivalent
Paulo D. Koeberle	
Judi Laprade	Lecturer
Cindi M. Morshead	Associate Professor (Division Head)
Hong-Shuo Sun	Assistant Professor

Publications

Alibrahim A, Zhao L, Bae CYJ, Barszczyk A, Sun CLF, Wang GL, Sun HS. Neuroprotective effects of volume-regulated anion channel blocker DCPIB on neonatal hypoxic-ischemic injury. *Acta Pharmacologica Sinica*. 2013; 34: 113-118.

Babona-Pilipos R, Popovic MR, Morshead CM. A galvanotaxis assay for analysis of neural precursor migration kinetics in an externally applied direct current electric field. *JoVE. JoVE, J Vis Exp*. 2012 Oct 13;(68). doi:pii: 4193. 10.3791/4193.

Bae CYJ, Sun HS. Current Understanding of TRPM7 Pharmacology and Drug Development for Stroke. *Acta Pharmacologica Sinica*. 2013; 34: 10-16.

Chaudhuri J, Tarulli E, Gretka V, Hoyles A, Morshead CM, Stanisz GJ. Effectiveness of MPIOs as markers for detection of migration of Bone Marrow Derived Mesenchymal Stromal Cells in a Stroke Model. *J Magn Reson Imaging*. 2013 Jun; 37.6.1409-1418.

Corbett D, Morshead CM, Shoichet M. Efficacy of Transplant and Endogenous Precursor Stem Cell Interventions on Stroke Recovery. *A Critical Assessment of Cell-Based Therapies in Stroke*. Editors Jukka Jolkonen and Piotr Walczak, Springer 2012, in press.

Dibajnia P, Morshead CM. Role of neural precursor cells in promoting repair following stroke. *I Acta Pharmacol Sin*. 2012 Oct. 15. doi: 10.1038/aps.2012.107 [Epub ahead of print].

D'Onofrio PM, Koeberle PD. What can we learn about stroke from retinal ischemia models? *Acta Pharmacol Sin*. 2013; 34.91-103.

Hollander AC, D'Onofrio PM, Magharious M, Zhu P, Chen J, Koeberle PD. Quantitative iTRAQ analysis of the retina reveals hepatoma derived growth factor as a novel therapeutic for injured adult central nervous system neurons. *Investigative Ophthalmology and Visual Science*. 2012; 53.3973-89. 3973-89.

Instrum R, Sun HS. Restoring neuroprotection through a new preclinical paradigm: translational success for NA-1 in stroke therapy. *Acta Pharmacologica Sinica*. 2013; 34: 3-5. Lu XL, Xu Z, Yao XL, Su FJ, Ye CH, Li J, Lin Y, Wang GL, Zeng JS, Huang RX, Ou JS, Sun HS, Wang LP, Pang J, Pei Z. Marine cyclotriptide X-13 promotes angiogenesis in zebrafish and human endothelial cells via PI3K/Akt/eNOS signaling pathway. *Marine Drugs*. 2012; 10: 1307-1320.

Piccin D, Yu F, Morshead CM. Notch signalling imparts and preserves adult neural stem cell characteristics in vitro and in vivo. *Stem Cells and Development*. 2012; doi:10.1089/scd.2012.0390.

Sun HS. Current mechanisms in stroke. *Acta Pharmacologica Sinica*. 2013 Jan; 34: 1-2.

Sun HS, Feng ZP. Neuroprotective Role of ATP Sensitive Potassium Channel in Cerebral Ischemia. *Acta Pharmacologica Sinica*. 2013; 34: 24-32.

Wang Y, Cooke MJ, Morshead CM, Choichet MS. Hydrogel delivery of erythropoietin to the brain for endogenous stem cell stimulation after stroke injury. *Biomaterials*. 2012; 33(9): 2681-2692.

Xiao-Dong N, Zahir T, Mothe A, Morshead CM, Shoichet MS, Tator CH. (2011). The effect of growth factors and soluble Nogo66 receptor protein on transplanted neural stem/progenitor survival and axonal regeneration after complete transection of rat spinal cord. *Cell Transplantation*. 2012; 21(6):1177-1197.

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: Society for Neuroscience, New Orleans, United States, October 2012. Speaker: 1/ A novel LIF-responsive, embryonic-like, primitive neural stem cell in the adult central nervous system is upstream of the GFAP+ definitive neural stem cell. 2/ Promoting endogenous repair of the aged brain following stroke. 3/ Quiescent primitive neural stem cells repopulate the ablated definitive neural stem cell pool in the adult mouse brain.

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: 13th Annual Research Symposium “Acquired injury in the developing brain”, Calgary, Alberta, Canada, April 2013. Invited Speaker: Promoting self-repair of the injured brain in a model of cerebral palsy.

Morshead CM: Canadian Association of Neuroscience - Public Lecture 7th Annual Meeting, Toronto, Ontario, Canada, May 2013. Invited Lecturer: The hope and the hype: stem cells for 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).

Bioengineered cell delivery systems. Shoichet M, Morshead C, Tator C, van der Kooy D. NSERC/CIHR, CHRP. (\$658,000 2011 - 2014).

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).

Promoting self-repair of the stroke injured brain using neural stem cell stimulation and rehabilitation. Morshead C, Corbet D, Shoichet M. Heart and Stroke Foundation. (\$280,000 2012 - 2015).

Regenerative Networks: Recruiting adult stem cells for tissue repair. Miller F, Morshead C, Biernaskie J, Kaplan and 2 others. Stem Cell Network Global Initiative. (\$3,500,000 2011 - 2014).

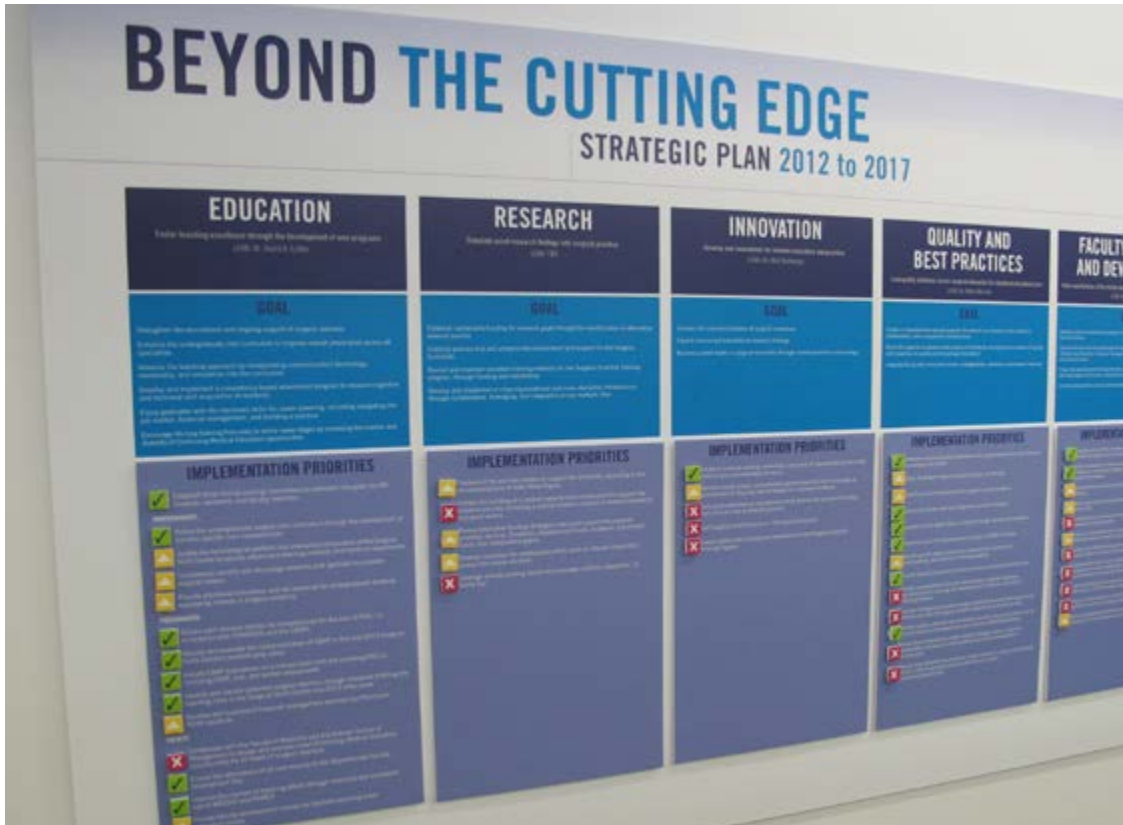
Repairing the injured spinal cord. Morshead C, Fehlings M and 4 others. Krembil Foundation (The). (\$1,500,000 2011 - 2013).

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.



Left: Department of Surgery Strategic Plan;

Bottom left: Department of Surgery Boardroom;

Bottom right: Department of Surgery Staff



Research in Education

Dr. S. Kitto Assistant Professor
Dr. R.R. Sonnadara Assistant Professor
Dr. N. Woods Assistant Professor

Publications

Ahmed N, Gotlib Conn L, Chiu M, Kurabi B, Qureshi A, Nathens A, Kitto S. Career Satisfaction among general surgeons in Canada: A qualitative study of enablers and barriers to improve recruitment and retention in general surgery. *Academic Medicine*. 2012 Nov; 87(11):1616-21.

Baghdady MT, Carnahan H, Lam EWN, Woods NN. Integration of basic sciences and clinical sciences in oral radiology education for dental students. *Journal of Dental Education*. 2013; 77(6): 757-763.

Campbell RM, Hodges B, Fisman D, Klei A.G, Kitto S. A comparison of health access between permanent residents, undocumented immigrants and refugee claimants in Toronto, Canada. *Journal of Immigrant and Minority Health*. Published online 03 November 2012. doi: 10.1007/s10903-012-9740-1.

Choy I, Kitto S, Adu-Aryee N, Okrainec A. Barriers to the uptake of laparoscopic surgery at a regional hospital in a lower-middle income country. *Surgical Endoscopy*, 2013 November; 27(11):4009-4015.

Goldszmidt M, Minda JP, Devantier SL, Skye AL, Woods NN. Expanding the basic science debate: the role of physics knowledge in interpreting clinical findings. *Adv.Health Sci.Educ.Theory Pract.*, 2012; 17(4): 547-555.

Hanson M, Kulasegaram K, Woods NN, Fechtig L, Anderson G. Resurrecting Reliable Personal Interviews for Admissions. *Academic Medicine*, 2012; 87(10): 1330-1334.

Higgins VJ, Bryant MJ, Villanueva EV, Kitto S. Managing and avoiding delay in operating theatres: a qualitative, observational study. *Journal of Evaluation in Clinical Practice*. 2013 Feb; 19.1.162-6.doi: 10.1111/j.1365-2753.2011.01787.x. 162-6.

Jeffer L, Kitto S, Merkley J, Lyons RF, Bell CM. Safety threats and opportunities to improve interfacility care transitions: Insights from patients and family members. *Dove Press Journal: Patient Preference and Adherence*. 2012 Oct; 6:711-718.

Jin J, Martimiankis MA, Kitto S, Moulton CA. Pressures to ‘Measure Up’ in Surgery: Managing Your Image and Your Patient. *Annals of Surgery*. 2012 Dec; 256(6):989-993.

Kitto S, Bell M, Goldman J, Peller J, Silver I, Sargeant J, Reeves S. (Mis)perceptions of continuing education: Insights from Knowledge translation, quality improvement and patient safety leaders. *Journal of Continuing Education in the Health Professions*. 2013 Mar; 33(2):81-88.

Kitto S, Bell M, Peller J, Sargeant J, Etchells E, Reeves S, Silver I. Positioning continuing education: boundaries and intersections between domains continuing education, knowledge translation, patient safety, and quality improvement. *Advances in Health Sciences Education : Theory and Practice*. 2013 Mar; 18(1):141-56.

Kitto S, Nordquist J, Peller J, Grant R, Reeves S. The disconnections between space, place and learning in interprofessional education: An overview of key issues. *Journal of Interprofessional Care*. 2013 September; 27 No.S2:5-8. Doi: 10.3109/13561820.2013.801410.

Kitto S, Schmitt M, Olson C. Call for Papers: Workplace learning in Continuing Interprofessional Education. *Journal of Interprofessional Care*. 2012; 26 (4): 259-260.

Kulasegaram KM, Martimianakis MA, Mylopoulos, M, Whitehead CR, Woods NN. Cognition Before Curriculum. *Academic Medicine : journal of the Association of American Medical Colleges*. 2013; 88(10), 1578-1585.

Lisk K, Flannery JF, Loh EY, Richardson D, Agur AMR, Woods NN. Determination of clinically relevant content for a musculoskeletal anatomy curriculum for physical medicine and rehabilitation residents. *Anatomical Sciences Education*. 2013; doi:10.1002/ase.1393

- Morris C, Hoogenes J, Shayegan B, Rehsia S, Sonnadara R, Matsumoto E.** Toward development of an intraoperative assessment tool for evaluation of robot-assisted laparoscopic prostatectomy: Results from a Delphi study to create an inventory of procedural steps. *Journal of Urology*. 2013 Apr; 4(suppl):e641-e642.
- Paradis E, Leslie M, Puntillo K, Gropper M, Aboumatar H, Kitto S, Reeves S.** Delivering Interprofessional care in intensive care settings: Results from a scoping review of ethnographic studies. *American Journal of Critical Care*. Published online 2013 July. doi: 10.1016/j.crc.2013.05.015.
- Peller J, Schwartz B, Kitto S.** Non-clinical core competencies and effects of interprofessional teamwork in disaster and emergency response training and practice: A pilot study. *Disaster Medicine and Public Health Preparedness*. 2013 August; 7(4):395-402.
- Reeves S, Kitto S, Masiello I.** Editorial: Crew resource management: How well does it translate to an interprofessional health care context? *Journal of Interprofessional Care*. 2013 May; 27(3):207-09.
- Reeves S, Leslie K, Baker L, Legare F, Silver I, Rosenfield J, Hodges B, Curran V, Armson H, Kitto S.** Study Protocol for a pilot study to explore the determinants of knowledge use in a medical education context. *Journal of Evaluation and Clinical Practice*. 2013 October; 19(5): 829-32.
- Reeves S, Paradis E, Leslie M, Kitto S, Aboumatar H, Gropper MA.** Understanding the nature of interprofessional collaboration and patient family involvement in intensive care settings: A study protocol. *ICU Director*. 2013 September; 4(5):242-247.
- Reeves S, Peller J, Goldman J, Kitto S.** Ethnography in qualitative educational research: AMEE Guide No. 80. *Medical Teacher Journal*. e1-e15. An International Association for Medical Education (AMEE) Publication. 2013 Aug; 35(8): e1365-79. doi: 10.3109/0142159X.2013.804977.
- Shearer B, Marshall S, Buist MD, Finnigan M, Kitto S, Hore T, Sturgess T, Wilson S, Ramsay W.** What stops hospital staff from following protocols? An analysis of the incidence and factors behind failure of bedside clinical staff to activate the rapid response system in a multi-campus Australian metropolitan healthcare service. *BMJ Quality & Safety*. 2012 July; 21(7):569-75.
- Willems A, Waxman B, Bacon A, Smith JA, Peller J, Kitto S.** Interprofessional non-technical skills for surgeons in disaster response: The qualitative study of the Australian Perspective. *Journal of Interprofessional Care*. 2013 Mar; 27(2):177-83.

Invited Visits

- Kitto S:** International Association for Medical Education, Lyon, France, 26-27 August 2012. Workshop Leader: Using theory in medical education research workshop.
- 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:** All Together Better Health VI, Kobe, Japan, 7 October 2012. Speaker: Interprofessional non-technical skills for surgeons in disaster response: a qualitative study of the Australian perspective.
- Kitto S:** 2012 SACME/ AAMC Fall Meeting, San Francisco, California, United States, November 2012. Speaker: The Perceived Intersections and Boundaries between the Domains of Continuing Education and Quality Improvement.
- 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.
- Kitto S:** Regional Education Committee meeting, Kaiser Permanente Colorado Institute for Health Research, Denver, Colorado, United States, 5 December 2012. Invited Speaker: Mapping Practice Boundaries and Intersections between Domains: Continuing education, knowledge translation, patient safety and quality improvement.

Kitto S: SCCPD Research Presentation Session at CCME 2013, Quebec, Canada, 20 April 2013. Invited Speaker: Assessing perceived and unperceived needs: The perspective and processes of Continuing Education Directors and Leaders.

Kitto S: Council of Ontario Faculties of Medicine – Continuing Professional Development, Toronto, Ontario, June 5, 2013. Workshop Lead Facilitator: Walk in the woods.

Kitto S: CACHE Conference 2013, “Evolving the continuum of learning: Shifting Cultures towards collaboration”, Vancouver, British Columbia, Canada, 11 June 2013. Keynote Speaker: Emerging TRENDS, MODELS AND THEORIES shaping CPD/CHE.

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. Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.

Sonnadara R: Canadian Orthopaedics Association, Ottawa, Ontario, Canada, 2012. Speaker: Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.

Sonnadara R: American College of Surgeons Accredited Educational Institutes, Chicago, Illinois, United States, 2012. Speaker: Orthopaedic Boot Camp III: Examining the efficacy of self-regulated learning during an intensive laboratory-based surgical skills course.

Sonnadara R: Association for Surgical Education, California, United States, 2012. Speaker: A new approach to evaluating technical resident performance.

Sonnadara R: International Conference on Residency Education, Ottawa, Ontario, Canada, October 2012. Speaker: 1/ Evaluating performance in a Competency-based Residency Program. 2/ Orthopaedic Boot Camp III: Examining the efficacy of self-regulated learning during 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)

Developing and assessing preparation for future learning in medical students. Mylopoulos M, Woods NN Medical Council of Canada. (\$34,897 2011 –2013).

Development and validation of a robot-assisted laparoscopic radical prostatectomy competency assessment tool. Sonnadara R, Matsumoto E. McMaster University, McMaster Surgical Associates. (\$29,750 2012 - 2013).

Evaluation of Future Learning Environments- How Space Impacts Learning. Kitto S, Reeves S. Karolinska Institutet. (\$35,000 2011 - 2013).

Hand Hygiene and Knowledge Translation: A merger of hand hygiene practices between 2 Bond and 7 CC North. Muller M, McKernan P, Hughes B, Kitto S, Straus S, Siddique N, Leung E. St. Michael’s Hospital (\$16,750 2011 - 2012).

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 collaboration within the health professions in South Tyrol, Italy: How do the different professions view and evaluate the current status of interprofessional collaboration. Reeves S, Mischo-Kelling M, Tappeiner W, Lochner L, Vittadello F, Kitto S. National Agency: Provincia Autonoma di Bolzano Italy. (E272 2013 - 2015).

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).

Interprofessional disaster preparedness for Japanese health care students and professions. Ohshima N, Bontje P, Oneyama H, Yoshiura T, Reeves S, Kitto S. Ministry of Health, Japan. (\$133,000 2013 - 2016).

Making Handover Safer for our Trauma Patients- A grassroots approach to quality. Zakrisson T, Nathens A, Leung E, Kitto S, McFarlan A, McCredie V, Campos, ID, Baker A, Barratt L, Hicks C. St. Michael's Foundation. (\$18,921.40 2011 - 2012).

Pressures on surgeons to 'measure up' and their effects on surgical judgment. Moulton CA, Murnaghan ML, Martimianakis MA, Kitto S. Physicians Services Incorporated Foundation (The) (PSI). (\$99043 2011 - 2013).

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).

Understanding the nature of interprofessional teamwork in intensive care units: a multi-institutional ethnographic study. Reeves S, Kitto S, Provonost P, Grouper M, Aboumatar H, Wachter B. Gordon & Betty Moore Foundation, California. (\$2,167,937 2012 - 2015).

Assessing consistency of 'slowing down' moments in surgical expertise. Sonnadara R, Moulton CA. Medical Council of Canada. (\$33,465 2012 - 2013).

Honours Received

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

Sonnadara R: 2013 Award for Excellence in Innovation, Association for Surgical Education. Awarded for excellence, innovation and scholarship in surgical education. 2012 - 2013.

Cross Appointments

Dr. A.J. Baker	(Anaesthesia)
Dr. B. Bapat	(Laboratory Medicine and Pathobiology)
Dr. P. Birek	(Dentistry)
Dr. A. Campbell	(Medicine)
Dr. J. Carson	(Family and Community Medicine)
Dr. W.A. Cassar-Demajo	(Anaesthesia)
Dr. A. Daar	(Public Health Sciences)
Dr. A. Damyanovich	(Medical Imaging)
Dr. J.E. Davies	(Dentistry)
Dr. A.D. DePetrillo	(Obstetric and Gynaecology)
Dr. E. Diamandis	(Laboratory Medicine and Pathobiology)
Dr. R.J. Eby	(Medicine)
Dr. V.L. Fornasier	(Laboratory Medicine and Pathobiology)
Dr. A. Fox	(Medical Imaging)
Dr. J. Freeman	(Otolaryngology)
Dr. R. Gilbert	(Otolaryngology)
Dr. M. Greenberg	(Pediatrics)
Dr. M.D. Grynpass	(Laboratory Medicine and Pathobiology)
Dr. P.J. Gullane	(Otolaryngology)
Dr. B. Harvey	(Public Health Sciences)
Dr. B. Hinz	(Dentistry)
Dr. J. Irish	(Otolaryngology)
Dr. J. Irvine	(Psychiatry)
Dr. G. Jackowski	(Laboratory Medicine and Pathobiology)
Dr. M.G. Johnston	(Laboratory Medicine and Pathobiology)
Dr. R. Kandel	(Laboratory Medicine and Pathobiology)
Dr. W. Kucharczyk	(Medical Imaging)
Dr. G.A. Levy	(Medicine)
Dr. C. Lumsden	(Medicine)
Dr. A. Macdonald	(Medicine)
Dr. J. McGlade	(Medical Biophysics)
Dr. D.A.G. Mickle	(Laboratory Medicine and Pathobiology)
Dr. M. Milner	(Rehabilitation Sciences)
Dr. W. Montanera	(Medical Imaging)
Dr. J. Mullen	(Laboratory Medicine and Pathobiology)
Dr. A. Narold	(Public Health Sciences)
Dr. M. Ojha	(Rehabilitation Sciences)
Dr. K.P.H. Pritzker	(Laboratory Medicine and Pathobiology)
Dr. P. Ritvo	(Public Health Sciences)
Dr. A. Romaschin	(Laboratory Medicine and Pathobiology)
Dr. J. Rutka	(Otolaryngology)
Dr. A. Sahgal	(Radiation Oncology)
Dr. G. Sandor	(Dentistry)
Dr. A. Slutsky	(Medicine)
Dr. D. Stewart	(Psychiatry)
Dr. G. Tait	(Anaesthesia)
Dr. R. Talwar	(Dentistry)
Dr. K.G. terBrugge	(Medical Imaging)
Dr. T. van der Kwast	(Laboratory Medicine and Pathobiology)
Dr. Q. Wan	(Physiology)
Dr. I. Weller	(Public Health Sciences)
Dr. L. White	(Medical Imaging)
Dr. R. Willinsky	(Medical Imaging)
Dr. L. Wilson-Pauwels	(Biomedical Communications)
Dr. I. Witterick	(Otolaryngology)