Department of Surgery
Annual Report
JULY 1, 2013 – JUNE 30, 2014

R.S. Mclaughlin Professor And Chair
Dr. J.T. Rutka

Associate Chair And Vice-Chairs
Dr. O. Rotstein  Associate Chair
Dr. D.A. Latter  Vice-Chair, Education
Dr. R.R. Richards  Vice-Chair, Clinical
Dr. M. Fehlings  Vice-Chair, Research
Dr. R. McLeod  Vice-Chair, Quality
Dr. A. Kapus  Associate Chair, Research
Dr. S. Keshavjee  Vice-Chair, Surgical Innovation

Surgeons In Chief
Dr. J.G. Wright  The Hospital for Sick Children/Robert B. Salter Chair in Surgical Research
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. P. Ferguson  Albert and Temmy Latner Chair, Division 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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40th GALLIE DAY  Friday May 9, 2014

Gallie-Bateman and McMurrich Research Presentations

Joan Lipa: Morning Session Chair.

Uzwa Shahzad: "Transmyocardial revascularization enhances mesenchymal stem cell engraftment in infarcted hearts through SCF-c-kit and SDF-1-CXCR4 signaling axes" (Supervisor: Terrence M. Yau)

Charles de Mestral: "Cost-utility analysis comparing alternative timeframes of surgery for acute cholecystitis" (Supervisor: Avery B. Nathens)

Kimberly Lau: "Anisotropic stress orients remodeling of mammalian limb bud ectoderm" (Supervisor: Sevan Hopyan)

Jennica Platt: "Pre-consultation educational group intervention to improve shared decision-making for post-mastectomy breast reconstruction: A pilot randomized controlled trial" (Supervisor: Toni Zhong)

Vijay Ramaswamy: "Recurrence patterns differ across medulloblastoma subgroups" (Supervisor: Michael D. Taylor)

Gregory Borschel, Afternoon Session Chair.

David W. Cadotte: "Visualizing structural and functional plasticity of the human cervical spinal cord" (Supervisor: Michael G. Fehlings)

Shabana Amanda Ali: "Cholesterol homeostasis mediates Hedgehog signaling in chondrocytes and osteoarthritis" (Supervisor: Benjamin A. Alman)

J. Michael Hendry: "The ERBB2 receptor pathway regulates regeneration following the acute and chronic repair of nerve injuries" (Supervisor: Gregory H. Borschel)

Parvati Dadwal: "Activating endogenous neural precursor cells using metformin leads to neural repair and functional recovery in a model of childhood brain injury" (Supervisor: Cindi Morshead)

Marisa Louridas: "Mental practice to enhance advanced laparoscopic surgical performance in the operating room: A randomized controlled trial" (Supervisor: Teodor P. Grantcharov)
SYMPOSIUM: Commercialization and Research

Michael Tymianski, MD PhD FRCSC, Head, Division of Neurosurgery, Senior Scientist, Division of Fundamental Neurobiology, Toronto Western Research Institute “Commercialization the Hard Way”

Milos R. Popovic, PhD, PEng, Toronto Rehab Chair in Spinal Cord Injury Research “Commercialization: Where Brownian Motion Meets Serendipity”

Paul Walker, MD PhD FRCSC, President and CEO, Spectral Diagnostics Inc “Why Commercialize Your Discovery - A View From The Front Line”

Rafael Hofstein, PhD, President & CEO, MaRS Innovation, MaRS Centre “From Bench to Bedside: Best Practices for Commercialization”

Gordon Murray Lecture

Geoffrey C. Gurtner, MD, Professor and Associate Chairman of Surgery, Professor (by courtesy) of Materials Science and Engineering, Stanford University School of Medicine, Stanford, CA USA “The Art of the Practical: Translating Scientific Discovery into the Real World”
40th GALLIE DAY  Friday May 9, 2014

Poster Judging
40th GALLIE DAY  Friday May 9, 2014

Reception, Dinner & Awards Ceremony
40th GALLIE DAY  Friday May 9, 2014

Reception, Dinner & Awards Ceremony
Continuing Appointment Reviews 2013-14

Cil: John Semple, Tulin Cil, Andy Smith, Dimitri Anastakis, David McCready

daCosta: Michael Schwartz, Todd Mainprize, Leo DaCosta, Avery Nathens, Andres Lozano

Das: Loch MacDonald, Sunit Das, Andres Lozano

Ghanekar: Lorne Rotstein, Shaf Kashavjee, Anand Ghanekar, Peter Dirks

Jackson: Allan Okrainee, Lorne Rotstein, Tim Jackson, David Urbach, Andy Smith

Jeschke: Avery Nathens, Marc Jeschke, Chris Forrest

Lawless: Nancy Baxter, Bernard Lawless, Ori Rotstein, Andras Kapus

Moussa: Fuad Moussa, Chris Caldarone
University Rounds

Annual Address

Dr. J. Rutka, Dr. Ori Rotstein

Bigelow Lecture, Drs. Kizer and Caldarone

Harland-Smith Lectureship, Andy Smith, Ori Rotstein, Steven Strasberg, Steven Gallinger, Bernard Langer

Lister & Armstrong Rounds: James Rutka, Avery Nathens, Marc Jeschke, Ori Rotstein

Ben Alman Research & Science Rounds: Ben Alman, Tom Chav, Milos Popovic

Clinical Epidemiology Rounds Caprice Greenberg, David Urbach

Kergin Lecture: James Rutka, Eben Alexander, Dr. Ori Rotstein

Tile Lecture: Avery Nathens, Jerry Jurkovich, Marvin Tile
2013 Holiday Party  Bata Shoe Museum
Chair’s Report

Dr. James T Rutka, MD, PhD, FRCSC

For this past year, our top priorities for the Department of Surgery have been to appoint several new University Division Chairs; to appoint a new Vice Chair of Research; to surpass last year’s record of grant capture and peer review publication; to lead efforts in health care simulation in the Faculty of Medicine; to implement faculty mentoring and quality/best practices programs; and to lead an aggressive advancement campaign to help fund numerous Departmental initiatives. As I write this column, I am pleased to inform you that we have achieved all of our top objectives this past year.

Tom Forbes was recruited from Western University to be the new Chair of Vascular Surgery. Tom is Section Editor of Rutherford’s Textbook of Vascular Surgery, now in its 8th Edition, Associate Editor of the Journal of Vascular Surgery, and President of the Canadian Society of Vascular Surgery. Peter Ferguson was appointed as the Albert and Temmy Latner Chair of the Division of Orthopaedics. Peter has served as Program Director of Orthopaedics since 2011, and has received numerous awards for excellence in teaching including the WT Aikins Award, and the Bruce Tovee Postgraduate teaching award. With his colleagues, Peter helped to establish the novel Competency Based Curriculum (CBC) in Orthopaedics. Finally, Carol Swallow was appointed as the Bernard and Ryna Langer Chair of the Division of General Surgery following an international search. Carol is Professor of Surgery, has over 75 peer reviewed publications, and as a surgeon-scientist, has received funding from numerous peer review granting agencies over many years.

Michael Fehlings was appointed as Vice Chair of Research, replacing Ben Alman who had served in the role for 7 years, and who has recently left UofT to accept the position as Chair of the Department of Orthopaedic Surgery at Duke University. Michael is Professor of Neurosurgery, former medical director of the Krembil Neuroscience Center, co-director of the UofT Spine Program, former director of the Neuroscience Program at UofT, recipient of the Department of Surgery Lister Prize, past President of the Cervical Spine Research Society, and AOSpine Research Foundation. Michael has published over 400 peer reviewed papers, and is extremely well funded by the Canadian Institutes of Health Research, Christopher Reeve Foundation, and the Ontario Stem Cell Initiative, among several others. Michael hosted a research “Town Hall” meeting for all faculty invested in research in the Department of Surgery, and a meeting of the surgeon:scientist trainees this year.

This past year, we received $46,916,632 in research funding, up from last year, and a new all-time record in the Department of Surgery. We had 1,485 publications across the Department which represents a 3.6% increase over last year, with 6,133 citations, or 4.1 citations per publication. Our field-weighted citation impact was 1.48 suggesting that we are publishing 48% more articles than expected for the size of our faculty. Of note, there were 6 members of our faculty who ranked in the top 20 of all authors at the University of Toronto from 2009-2013, and 17 who were found in the top 100. I am absolutely delighted with the grant capture and prodigious academic output of our faculty, as demonstrated this past year. Some of the noteworthy high impact publications this year include Michael Taylor’s in Nature; Rob Nam’s in Lancet Oncology; Tony Zhong’s in J Clinical Oncology; Catherine O’Brien’s in Science; David Urbach’s and Nancy Baxter’s in New England Journal of Medicine; and Peter Dirks’ in Cancer Cell to name just a few.

Dimitri Anastakis, Vice Dean Continuing Professional Development, and I were asked to host a Simulation Summit for the Faculty of Medicine on February 26, 2014. Numerous key stakeholders attended from across the campus from the Departments of Pediatrics, Anesthesiology, Critical Care Medicine, Otolaryngology, Psychiatry, and Surgery. There were numerous presentations followed by break-out sessions in attempts to co-ordinate efforts in simulation across the Faculty. In addition, we have been holding our own Surgery Simulation meetings this past year, and are moving closer towards optimizing educational experiences, rotations for residents and medical students, and determining a cost-recovery strategy with central infrastructure to support simulation efforts in the Department of Surgery.

The Annual Faculty Development Day was held on May 23rd, 2014, as organized by Dr’s David Latter, George Christakis, and Ronald Levine. Topics that were highlighted this year included Gender and Religious Sensitivities, Conflict Resolution, the Learner in Difficulty, and Teaching OR Skills with Multiple Levels of Learners. In addition, Ori Rotstein, Associate Chair Surgery, and Paul Grieg have established a Faculty Mentoring Program whose goal is to provide equal access to the resources to allow faculty to reach their full academic potential. This program will be closely linked to the Centre for Faculty Development, and will begin recruitment later in 2014-15. Robin McLeod, Vice Chair Quality/Best Practices (Q/BP’s), has led a highly effective working group which forms the “Quality Committee”, and which has established a champion in each Division for Q/BP’s. The first project which will be tackled by the Quality Committee is hospital readmission rates for index procedures across the various Divisions. In addition, a quality-based curriculum is being established for all residency training programs by Najib Safieddine, TEGH.

With the assistance of Darina Landa, Senior Development Officer, we raised over $1.3 Million for fellowships across
the various Divisions, and added an additional $1.3 Million for Divisional Programs. We have negotiated a joint fundraising agreement with Mount Sinai Hospital and Foundation for the Surgical Skills Centre. Six of our Divisions have demonstrated 100% participation in faculty member donation programs. Finally, I am very pleased to report that we have raised over $22.5 Million total for the UofT Boundless Fundraising Campaign.

This year, we provide a special thanks to Dr. Martin Barkin who is stepping down from the position of Chair of the Surgical Alumni Association. Martin has served admirably in this capacity over many years, and is among the most highly decorated and notable members of our faculty having held the posts of Deputy Minister of Health from 1987-1991, and President and CEO of Sunnybrook Health Sciences Centre, among many other positions.

Other notable promotions for our faculty included the appointment of Dr Bob Bell as the Deputy Minister of the Ministry of Health and Long-Term Care, and Robin McLeod as the VP Clinical Programs and Quality Initiatives, for Cancer Care Ontario.

I am pleased to report the following promotions of our Faculty this year. From Lecturer to Assistant Professor: Abdollah Behzadi, Anand Ghanekar, Rajiv Singal, and Richard Jenkinson. From Assistant Professor to Associate Professor: Sean Cleary, Manuel Gomez, Erin Kennedy, Tom Harmantas, Armando Lorenzo, Rob Stewart, Veronica Wadey, Gelareh Zadeh, and Toni Zhong. And from Associate Professor to Full Professor: Walid Farhat, Abhaya Kulkarni, Calvin Law, Subodh Verma, and Albert Yee.

The following Faculty members successfully completed their Continuing Appointment Reviews (CAR’s): Leo da Costa, Sunit Das, Marc Jeschke, Bernard Lawless, and Fuad Moussa. I should like to thank Ori Rotstein for leading the discussions of all the CAR’s, and for his tremendous assistance with the entire process.

We were very fortunate to welcome several new Faculty to the Department of Surgery: Mohammed Al-Omran, Vascular Surgery; Dean Elterman, Urology; Suneil Kalia, Neurosurgery; Nicole Look Hong, General Surgery; Michael Ordon, Urology; Maral Ouzounian, Cardiac Surgery, Jory Simpson, General Surgery; William Stansfield, Cardiac Surgery; and Karen Wong, Plastic and Reconstructive Surgery.

A major accomplishment for the Department of Surgery this year was the harmonization of all academic salaries. We are the only Department that pays a stipend to every faculty member in the entire Faculty of Medicine. However, until recently, these stipends were quite variable across the board. Thanks to the leadership of Robin Richards, Vice Chair Clinical, we now have the following formula to help guide our payments of academic stipends for full-time Faculty: 1) Surgeon:Scientists: $20K/yr, for 5 yrs, then $14K/yr thereafter; 2) Surgeon:Investigators: $15K/yr x 4 yr, then $8K/yr; and 3) Surgeon:Teachers: $2K/yr.

Our grant awards, honours, and research publications are too numerous to list here. Suffice it to say that we have had yet again another banner year for these achievements by our faculty. Darlene Fenech received the Undergraduate, and Oleg Safir the Postgraduate Tovey Teaching Awards respectively. Gelareh Zadeh received the Bernard Langer Surgeon Scientist Award. Greg Borschel won the George Armstrong-Peters Prize; and Laurence Klotz, the Lister Prize. Avery Nathens received the Charles Tator Mentoring Award. At Gallie Day May 9th, 2014, Dr. Geoffrey Gurtner from Stanford University was the Gordon Murray Lecturer, and he spoke about the commercialization of surgical enterprises.

Other noteworthy awards include Michael Fehlings as a new member of the Royal Society of Canada, Bernard Langer receiving an honorary degree from Queen’s University, Andres Lozano being named as a University Professor at UofT, Robin McLeod receiving the CPSO Council Award, and Emil Schemitsch being elected as President of the Canadian Arthroplasty Society.

This year, we reviewed the number of Endowed Chairs held by Surgical Faculty, and the numbers were staggering. There are 3 named University Chairs, 4 Joint Hospital – University Chairs, 36 Hospital – University Affiliated Chairs, and 20 Hospital Chairs. The total amounts to 63 Endowed Chairs to an approximate amount of $150 Million. New Chairholders this year included Peter Dirks at Sick Kids, Steve Gallinger at UHN, Julian Spears at St Michael’s, and Fred Gentili at UHN.

In any given year, many of our Faculty are the subjects of significant media attention. As some examples, Marc Jeschke spoke about his work creating skin grafts using 3D printers, Gideon Koren received publicity for using Twitter to broadcast the results of an open heart procedure, Teodor Grantcharov highlighted his simulation research using the OR “Black Box” protocol, and Charles Tator released the results of a 6 step guide to treating concussion. Elsewhere in the news, Andrew Lozano, Shaf Keshavjee, Ori Rotstein and I all gave TED talks to different audiences throughout North America.

Finally, I am absolutely delighted with the progress we are making with our Strategic Plan entitled Transforming Surgery: Beyond the Cutting Edge (2012 – 2017). We have made significant advances on the pillars of our plan for Research, Education, Q/BP’s, Faculty Development, Innovation, and Integration/Global Outreach. For 2014-15, we hope to have successful external Reviews by the Royal College, potentially hire a surgical illustrator and establish an Editorial Office in the Department of Surgery, develop a plan for balancing new entry surgeons with late career surgeons, maintain a healthy carry forward for Research, establish an Editorial Office in the Department of Surgery, and continue with our aggressive advancement campaign to fund numerous Departmental initiatives.

I do hope you will enjoy reading the contents of this Annual Report. I am constantly in awe of the accomplishments of our Faculty, Residents, and Fellows. Thank you once again for your continued support of our efforts in the Department of Surgery. I look forward to achieving our goals together.
It is with great pride that I start as the new Vice Chair Research to discover the untapped excellence we have throughout the teaching hospitals and University of Toronto. Our 108 surgeon-investigators, 56 surgeon-scientists, 66 surgeon-teachers and 46 scientists are the shining stars of our research profile. We undertake high impact work that has a profound effect on surgical care, from bench to bed-side. Each year the number of high-impact 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. The list is extremely long. Here are a few samples of our brilliant researchers. Benjamin Alman, Nancy Baxter, Christopher Caldarone, Peter Dirks, Gregory Fairn, Michael Fehlings, Anna Gagliardi, Moigan Hodaie, Sevan Hopyan, Paul Karanicolas, Shaf Keshavjee, Ian McGilvray, Robin McLeod, Cindi Morshed, Diane Nam, Unni Narayanan, Tom Schweizer, David Urbach, Thomas Willett, were among the great number of faculty who received new grants this year from CIHR. Congratulations to Nancy Baxter, Marcelo Cypel, Peter Dirks, Steven Gallinger, Girish Kulkarni, Alexandre Zlotta for their funding success from CCSRI. Catherine O’Brien received a 3-year Terry Fox New Investigator Award. Michael Reedijk received a 3-yr grant from Canadian Breast Cancer Foundation; James Eubanks received a 3-yr grant from the Pro Rett Ricerca Foundation (Italy). Michael Fehlings (yours truly) et al. were awarded a 5-year $7.5M grant from the Ontario Brain Institute for the collaborative work on Childhood Cerebral Palsy Integrated Discovery Network. Taufik Valiante was awarded two 5-year grants from the Ontario Brain Institute. Mohammed Shamji received the Early Career Investigator Pain Research Grant. Andras Kapus and Victor Yang were successful in receiving NSERC grants. Victor Yang was also awarded Networks of Centres of Excellence and Canada Foundation of Innovation grants for several years. Subodh Verma has been awarded two 5 year grants from the Heart & Stroke Foundation of Canada. Our total research funding continues to surpass that of even many of the Universities in Canada, this year was over $46,600,000.

The Surgeon Scientist Training Program remains as a very significant training program for residents at the graduate level in research. We have 19 new residents and 13 continuing resident enrolled in the SSTP for July 2014. It is always a great feeling to know that 94% of our Surgeon Scientist Training Program trainees were successful in receiving full or partial salary support from external granting agencies. Thanks to the CIP-MOH funding, 5 of our SSTPs were awarded full funding for the Clinician Investigator Program. We had a very enjoyable evening with the new SSTPs to put a face to a name. Dr. Michael Fehlings welcomed the new trainees, with Drs. James Rutka and Andras Kapus giving them some positive highlights of the Program they are about to embark. David Cadotte, Kim Tsoi, and James Byrne ensured them that they represent the residents in the Program and are available any time. Likewise, Val Cabral, Nancy Calabrese-Condo and Tess Weber reassured them that their experience in the next 2 – 4 years will be a great experience in terms of research as well as collaboration.

This year marked the 40th Gallie Day celebration. To introduce the day, Professor James Rutka reflected on the major social, medical, scientific and political changes which have occurred over the past 40 years. The theme of this year’s Gallie Day was “Commercialization and Research”. Commercialization and innovation are key to driving new discoveries and to enable their translation into practical clinical solutions. These goals embody the essence of what it means to be an academic surgeon.

The symposium speakers emphasized their passion and commitment to their commercial ventures and the pressing need for the surgeon scientist phenotype to evolve if patients are to benefit from translation of discoveries. Rafael Hofstein (PhD, President & CEO, MaRS Innovation, MaRS Centre) presented his perspectives in a lecture entitled, “From Bench to Bedside: Best Practices for commercialization”. Dr. Hofstein emphasized the role that MaRS can play in facilitating translational research and innovation. Milos R. Popovic (PhD, PEng, Toronto Rehab Chair in Spinal Cord Injury Research) described a 17-year long journey of developing a concept for electrically stimulating functional upper limb recovery from an idea to a Health Canada approved product, which has gone global. His talk was entitled, “Commercialization: Where Brownian Motion Meets Serendipity”. Michael Tymianski (MD PhD FRCSCh, Head, Division of Neurosurgery; Senior Scientist, Division of Fundamental Neurobiology, TWRI-UHN), talked about his biotherapeutics company (NoNo Inc) dedicated to the research, development and commercialization of a novel pharmaceutical PSD95 antagonist for the treatment of stroke, traumatic brain injury, and pain. His talk was entitled, “Commercialization the Hard Way”. Paul Walker (MD PhD FRCSCh, President & CEO, Spectral Diagnostics Inc. and Past Surgeon-in-Chief at UHN) discussed his unique path to developing a product focused on improving outcomes in sepsis. His talk was entitled, “Why Commercialize Your Discovery - A View From The Front"
Each of the speakers presented a unique perspective but each emphasized the importance of surgeons being involved with and leading efforts directed at innovation and commercialization.

This year’s Gordon Murray Lecturer was Geoffrey C. Gurtner, MD (Professor and Associate Chairman of Surgery, Professor [by courtesy] of Materials Science and Engineering, Stanford University School of Medicine, Stanford, CA USA). Dr. Gurtner’s talk was entitled, “The Art of the Practical: Translating Scientific Discovery into the Real World”. The following words, provided by Dr. Gurtner, summarize his key message: “It is well known that surgeons have pioneered the technologies that have transformed medicine. The treatment of coronary artery disease, solid tumors and critically ill patients were all developed by surgeons and were based on insights gained in surgical research labs. However, as medicine has become more complex, innovation has changed from purely procedural (i.e., new operations) to more completely new approaches to existing disease states (i.e., minimally invasive valve replacement). Recently, new barriers to innovation have also arisen including the corporatization of intellectual property, increasing regulatory complexity, rising health care costs and conflict of interest concerns. These challenges have made it more difficult for practicing surgeon-scientists to bring scientific advances into the clinic. It seem likely that the successful practice of surgery in the future will require a greater familiarity process of technology development and an increased ability to work with the private sector. Understanding how medical technology is developed will be required for surgeons to move scientific discoveries into the clinic. Hopefully, these new skills will allow surgeon-scientists to remain leaders in the advancing patient care and medicine.” (Geoffrey C. Gurtner)

We had a record number of abstracts submitted by trainees working with our faculty. There were 10 platform presentations and 78 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 range of assorted topics and researchers highlighted the wide- ranging and tremendously high quality research being conducted in our Department.

We had 10 superb oral presentations. All presentations scored highly. Surgeon Scientist Training Program (SSTP) trainees are awarded the Gallie Bateman prizes. First prize went David W. Cadotte (supervisor: Michael G. Fehlings), for his oral presentation entitled, “Visualizing structural and functional plasticity of the human cervical spinal cord”. Jennica Platt (Natalie Causarano, Nancy Baxter, Shaghayegh Bagher, Jennifer Jones, Kelly A. Metcalfe, Stefan O.P. Hofer, Anne C. O’Neill, Terry Cheng, Elizabeth Starenkyj, [supervisor: Toni Zhong]) received second prize for her oral presentation entitled, “Pre-consultation educational group intervention to improve shared decision-making for post-mastectomy breast reconstruction: A pilot randomized controlled trial”. Third prize was awarded to Marisa Louridas (Esther M. Bonrath, Dana A. Sinclair, Nicolas J. Dedy, [supervisor: Teodor P. Grantcharov]) for her oral presentation entitled, “Mental practice to enhance advanced laparoscopic surgical performance in the operating room: A randomized controlled trial”. The fourth prize was awarded to Chethan Sathya (Paul Wales, Damon Scales, Paul Karanicolas, [supervisor: Avery B. Nathens]), for the poster presentation entitled, “Mortality among injured children treated at different trauma center types”.

The McMurrich Awards are presented to research trainees who are not in the Surgeon Scientist Training Program. The first place award was won by Vijay Ramaswamy (Supervisor: Michael D. Taylor) for his oral presentation, entitled, “Recurrence patterns differ across medulloblastoma subgroups”. Shabana Amanda Ali (Mushriq Al-Jazrawe, Heather Whetstone, Raymond Poon, [supervisor: Benjamin A. Alman]) received second prize for her oral presentation entitled, “Cholesterol homeostasis mediates Hedgehog signaling in chondrocytes and osteoarthritis”. Third prize was awarded to Kimberly Lau (Hirotaka Tao, Haijiao Liu, Kendra Sturgeon, Rodrigo Fernandez-Gonzalez, Yu Sun, [supervisor: Sevan Hopyan]) for her oral presentation entitled, “Anisotropic stress orients remodeling of mammalian limb bud ectoderm”. Hae-Ra Cho (Hiroki Shimizu, Hiroaki Toba, Sylvia Asa, [supervisor: Mingyao Liu]) received fourth prize for the poster presentation entitled “Deficiency of a novel adaptor protein, xbl130, is associated with the development of severe multinodular goiter”.

Faculty research awards went to Gelareh Zadeh - Bernard Langer Surgeon Scientist Training Program 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; Gregory Borschel - 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; Avery Nathens - 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; Laurence Klotz -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 fourth Shafie Fazel Award, established in memory of Dr. Shafie Fazel is presented to an individual who has demonstrated outstanding accomplishments during his/her residency both as a surgeon and as an investigator, was presented to Aria Fallah (PGY 6, Division of Neurosurgery). The Zane Cohen Clinical Fellowship is presented to a clinical fellow who has practiced and...
achieved at the highest level while being a clinical fellow in the Department of Surgery was awarded to Niloofar Dehghan (Division of Orthopaedics). The Tovee Award is presented to an academic staff member of the Department of Surgery who has made the greatest contribution to the educational activities of the Department, as exemplified by Dr. E. Bruch Tovee during his outstanding career. This year’s recipient of the Tovee Postgraduate Prize is Oleg Safir and new mom, Darlene Fenech received the Tovee Undergraduate Prize. The Surgical Skills Centre Distinguished Educator Award demonstrates the Centre’s commitment to surgical skills education. This award recognizes those individuals who have made exemplary, innovative contributions to teaching and learning in the Surgical Skills Centre over the past year. This was presented to George Oreopoulos. D.R. Wilson Award for teaching is made annually to the surgical resident who is rated by undergraduate students as being an outstanding teacher. The recipient of this award was a resident whose teaching has been highly evaluated by medical students. The resident demonstrated both a positive attitude toward teaching and was considered a good surgical role model for undergraduate medical students, which went to Justin Lee.

Dr. Michael Fehlings hosted the first Town Hall meeting of scientists, surgeon investigators, surgeon scientists, surgeon scientist trainees and key stakeholders. Over 50 staff members attended this very informative meeting intended as an informal discussion forum of key issues related to research and research training in the Department of Surgery. Overall, it is noteworthy, that the faculty had a high degree of engagement in research and felt proud to work at the University of Toronto. Some challenges were noted however, recent changes at CIHR have made it more of a challenge to successfully receive funding. It is imperative that the research staff capitalize on the importance and success of collaborative research within the teaching hospitals and University. Some next steps arising out of the Town Hall meeting and as a result of discussions and consultations leading up to and subsequent to the meeting are as follows:

a) A focused effort to move fund raising for research in the Department of Surgery is underway with the assistance of the UT Advancement office.

b) Michael Fehlings is planning to meet with surgeon scientist trainees and junior residents considering research as a career option in the next several months.

c) A comprehensive synopsis of research activities by surgeon scientists, surgeon investigators and scientists in the Department of Surgery is being worked on.

d) A PGY I and PGY II evening research orientation meeting is scheduled for October 2014.

e) A retreat to discuss research strategic plan directions and priorities in the Department of Surgery is being planned for January 2015.

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.

A very special thanks goes to Val Cabral for her incredible dedication and hard work to organize the Surgeon Scientist Training Program, and the Gallie Day events. Val Cabral (with contributions from Michael G. Fehlings)
Postgraduate Education

Ron Levine, Director

The Department of Surgery at the Postgraduate level is the largest in Canada with 267 residents and 256 clinical fellows. There have been many accomplishments and successes in the 2013-2014 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. This academic year Dr. Maurice Blitz replaced Dr. Robert Mustard as the Director of Surgical Foundations. Dr. Blitz coordinated the weekly lecture seminars and he also organized the practice exam that took place in February 2014.

The newest program introduced this academic year is the surgical Prep Camp. This Prep Camp is mandatory for all PGY1 surgical residents and runs for the first two weeks of July. It is an intensive program of didactic lectures and learning of fundamental surgical skills. There is an exam at the end of Prep Camp. Several of the surgical specialties have their own prep camp either before or after the Surgical Prep Camp as well.

Also all PGY1 residents attend a surgical skills course in the fall. 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, which 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 256 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 267 residents, 256 fellows and 250 faculty members is a huge endeavor. This is masterfully done by Tess Weber and Robert Gardin.
The 2013-14 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. Melinda Musgrave is spearheading the planning of substantial changes that include more active resident-involved teaching and small group sessions and further reducing the teaching hours. Several of the crash course sessions have been video-recorded and uploaded to the portal for 24x7 student access.

Online content: The Surgery Clerkship website (portal) continues to be enhanced and updated 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. We continue to add more content to the mobile web app, which enables students to access relevant information “on-the-go.”

Division Directors in Undergraduate Education: To further the goal of delivering consistent and cohesive undergraduate education across all sites, I am happy to report that we have been able to establish the position of Division Director in Undergraduate Education. This person is the spokesperson and Division lead on all things related to Undergraduate Education. This person is responsible for undergraduate teaching activities, teaching assignments, and education-related communication within their Division, as well as to bring all the Surgical Leaders in Undergraduate Education (SLUE) in the Division for regular meetings.

Recording and recognizing faculty undergraduate teaching: In line with the Department’s strategic plan of recognizing and rewarding our teachers, we are currently in the process of identifying and documenting the various teaching and other undergraduate education-related activities over the four years that our faculty engage in. Our next step will be to form a Delphi panel to discuss and rank these activities in terms of importance and assign weightage.

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): This year saw a full complement of clinical clerks rotating at MAM. While we still need to increase capacity, especially in General Surgery teaching, feedback has been positive. Again, I wish to thank Abdollah Behzadi and Christiane Werneck, along with all the teaching faculty and support staff for this exceptional show. I look forward to hearing more positive things from the team.

TEAM course at Peter-Boyd Academy: For the last two rotations, we have been “mirroring” the Trauma Evaluation And Management (TEAM) course at the Peters-Boyd academy. This is still a pilot project and the goal is provide clerks the benefit of smaller group sessions and eliminate the need for protracted travel. We are evaluating feedback on this initiative.

Longitudinal Integrated Curriculum (LInC) project: Clerkship will also see the introduction of a new Longitudinal Integrated Curriculum project. This will be rolled out in the 2014-15 academic year at the FitzGerald Academy with 7 clerks. The plan is to expand this over the next years to other academies.

Pre-clerkship initiatives: I am extremely pleased with the success of ongoing pre-clerkship initiatives such as the Surgical Education And Discovery (SEAD) program, the Surgical Longitudinal Experience (SurgicLE), Student Surgical Skills Development (S3D) and the activities of the Surgical Interest Groups (SiG), to name a few. I wish to thank and congratulate Surgery Pre-clerkship Director, Ron Kodama and all the student leads and other staff who have made these events possible.
Continuing Professional Development

Terry Axelrod, Director and Chair, Continuing Professional Development Committee

**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

**2013-14 Activities**

26 CE events run through the CPD office, with 15 fully managed, the remainder with sponsorship for accreditation only. This is an increase over the previous two years in CPD managed and accredited events.

Superb success with enrollment in the hundreds for several courses, such as the Update in General Surgery 2014 (381), 11th Biannual Canadian Foot and Ankle Symposium 2014 (200), Urology Update 2013 (192), etc.

New programmes including the First Annual Pediatric Wound Care Symposium (Joel Fish and Irene Lara-Corrales) and the Hand and Upper Extremity Update (Steve McCabe).

Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CPD jurisdiction

**Objectives for 2014-15**

Encourage all Divisions to run or accredit courses through CPD office.

Catalogue the National and International CE that is done outside of the CPD office

To serve as the Test Department for the implementation of the proposed new model of partnership between the CPD Office and the University Departments

Continue to encourage the development of more Web based programmes.

Promote the value of CE to the Faculty of Medicine vis a vis promotion and advancement of faculty through partnership with the Vice Dean of Continuing Professional Development

SickKids Neurosurgery Fellows Reunion
Office of International Surgery

Andrew Howard, Director

Overview
The Office of International Surgery (OIS) is founded on the principle of collective responsibility, with the belief that improving access to surgical care in low-income countries has the potential to reduce the global burden of disease. The Department of Surgery plays a scholarly role within the global health field by emphasizing education and research for improving clinical practice, education, and capacity-building around the world. In just the past few years, our faculty members have carried out almost 80 projects to this effect through treating the sick and injured, delivering preventative programs, and partnering with local health professionals.

Ongoing Projects
Faculty members across all divisions have extensively contributed towards curriculum development, educational outreach, and clinical care in a variety of countries over the past few years. Some notable examples include the following:

The Ukraine Child Health Project
In 2013, a partnership was established between the Children of Chornobyl Canadian Fund and the Sick Kids Foundation with the purpose of improving the quality of pediatric healthcare in Ukraine through the exchange of people, knowledge, and skill expertise from Sick Kids. At the Liviv City Children's Clinical Hospital, Mark Bernstein (NeuroSurg, TWH) led awake craniotomy operative sessions while coaching local neurosurgeons through the procedures while it was telecasted to regional health centers. In Kyiv, at the Ramodanov Neurosurgical Institute, James Rutka (NeuroSurg, HSC) trained the neurosurgeons on how to perform a craniotomy for corpus colostomy. At both locations, they led interactive lectures and provided patient consultations. Skill development and international team capacity was further developed last year in which three Ukrainian neurosurgeons were selected for intensive skill-training rotations at Sick Kids.

Clinical Care Projects
Leila Kasrai (Plastics, SJHC) has traveled to Ethiopia and Nepal for both clinical and educational missions, conducting extensive qualitative research on burn prevention, clinical treatment, social stigma in burn patients, and the gaps in surgical care accessibility. She has recently developed burn prevention programs in Kenya.

Toni Zhong (Plastics, TGH) is a dedicated member of Women for Women (WFW) and the Emirates Floating Hotel, which provides essential medical care to the residents of Chilmari, Bangladesh. She and her team perform approximately 45 procedures per mission, the majority of which are women with disfiguring physical injuries resulting from acid burning – a common form of domestic violence. She strives to provide clinical treatment, social reintegration, and sustainability of WFW’s loco-regional presence.

Christopher Forrest (Plastics, HSC) and a team from SickKids were invited by Transforming Faces Worldwide to oversee an extensive needs assessment of the provision of cleft lip care in Ethiopia. The site visit was instrumental in helping the Yekatit 12 Hospital in Addis Ababa develop an orthognathic surgery program for managing the needs of patients with cleft lips and palates.

Several faculty members are also involved with cleft lip and palate care through Operation Smile, including Gregory Borschel (Plastics, HSC), David Fisher (Plastics, HSC), Ron Zuker (Plastics, HSC), and Howard Clarke (Plastics, HSC).

Surgical Capacity-Building Projects
Georges Azzie (GenSurg, SickKids) annually travels to Botswana to train local specialists in laparoscopic simulation, as well as to establish contextualized training programs.

Ted Gerstle (GenSurg, SickKids) focuses on capacity-building in healthcare providers in Ethiopia, through his partnerships with Tikur Anbessa Hospital and Addis Ababa University. He is the Surgical Director of the Qatar Project, a joint initiative between Sick Kids and the state of Qatar, aimed at building a pediatric hospital.

Allan Okrainec (GenSurg, TWH) leads innovative training techniques, particularly laparoscopic skills, for surgeons overseas through the use of telesimulation. His work has allowed for the development of curriculums and assessment tools in remote regions of South America, Africa, Asia, and Eastern Europe.

Peter Chu (GenSurg, SHSC) annually travels to the Galmi Hospital in Niger to train African surgeons, while simultaneously supervising elective residents from Canada who wish to pursue globally-focused surgical careers.

Moigan Hodaie (NeuroSurg, TWH) has pioneered neurosurgical education in developing countries, focusing on structured online learning. Her efforts are well underway in Ghana and are currently expanding within Africa. She is also an Affiliated Global Faculty for www.BIHE.org, an online university created in response to the lack of available post-secondary education in Bahrain, Iran.

Christine Novak (Plastics, TWH) utilizes her clinical practices as a physical therapist and rehabilitation scientist through her work with the Guatemala Healing Hands Foundation. She presents on a variety of hand surgery
and therapy-related topics, coordinates screening and pre/post operative care, as well as advocating for community development.

**John Hagen** (GenSurg, HRRH) travels to China to provide laparoscopic surgical care, followed by interactive learning sessions with the Chinese surgeons. He also travels to remote areas in the mountains Guatemala with HELPS International with a team of surgeons and volunteers to provide primary surgical care to locals in need.

**Educational Support Projects**

**The Ptolemy Library**

Through a partnership with the University of Toronto Libraries, the OIS continues its free provision of full-text access to the University of Toronto Library to the surgeons and surgical trainees in low-income countries. Our librarians, Sandra Kendall at Sidney Liswood Library and Warren Holder and Sian Miekle at Robarts, have trained clinicians and librarians in Ethiopia. This training is essential for covering 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 clinical delivery in resource-constrained settings. A series of critical care and trauma has been added, and new reviews continue to be welcomed (contact andrew.howard@sickkids.ca if you wish to contribute). The College of Surgeons of East, Central, and Southern Africa (COSECSA) now includes our reviews as a mandatory component of their residency curriculum. Reviews from 2005 onwards can be viewed at www.ptolemy.ca/members.

**Prakash Foundation LINCS Scholarships**

The Prakash Foundation Low Income Country Surgical (LINCS) Scholarships allow trainee surgeons to pursue portions of their residency or fellowships at the University of Toronto. The Scholarship program began in 2013 at $70,000 per year, with applicants selected on the basis of academic potential in their home country and acceptance by a surgeon or Division at the University.
Division of Anatomy

Cindi M Morshead, Division Head

Anne Agur  Professor
Barbara Ann Ballyk  Sr. Lecturer
Judi Laprade  Sr. Lecturer
Paulo D. Koeberle  Associate Professor
Cindi M. Morshead  Professor
Hong-Shuo Sun  Assistant Professor
Mike Wiley  Professor
Ian Taylor  Professor

Each year over 2500 students and trainees from across seven faculties (Rehab science (OT; PT); Medicine (Meds (undergraduate and residents), PAP); Dentistry (undergraduate, graduate); Arts and Science; Pharmacy; Kinesiology and Physical Education; SGS (BMC; IMS; Anthropology; Psychology) are taught by our faculty in the Division of Anatomy. Most striking, we find each year there is a demand for even more anatomy training. Industry and health professionals seeking refresher training and advanced anatomy instruction are a couple of examples of groups seeking anatomical expertise. We see even at the undergraduate level, an enormous interest in continuing studies in anatomy. This academic session our faculty have taken on the task of designing a new Arts and Science course for advanced anatomical study to be offered to fourth year students in 2014. We have already received more interest in this course than we can accommodate. We are looking forward to teaching these bright and enthusiastic undergraduates and keeping the art of Anatomy alive.

Promotions:

We are happy to announce the promotion of Dr. Judi Laprade to Senior Lecturer. Dr. Laprade is the course director for anatomy in the Faculty of Physical Education and Kinesiology and the Faculty of Dentistry. She also contributes to the undergraduate medical curriculum. Her significant contribution to these programs is well received and appreciated by students and faculty alike. Dr. Cindi Morshead was promoted to full Professor.

Research Grants:

Our Division faculty had another successful year acquiring external funding for research and academic endeavours. Collectively we garnered over X dollars. These include a CIHR-Industry partner operating grant (Morshead); Heart and Stroke Canadian Partnership for Stroke Recovery (Morshead); Heart and Stroke Foundation Grant-in-aid (Sun); Mars Innovation POP (Koeberle); Ontario Brain Institute (Morshead)

Current Research Funding:

Koeberle P (PI) NSERC Discovery Grant - Molecular Interactions that modulate PI3 Kinase and MAP Kinase pathways during Apoptosis ($130,000 2012 - 2017).
Morshead CM (PI) CIHR Operating Grant - Isolation and characterization of a novel neural stem cell in the adult mammalian brain ($569,445 2013-2018)
Morshead CM (PI) Corbett D, Shoichet M. CIHR Operating Grant - Promoting cognitive recovery using endogenous neural stem cell activation and rehabilitation following stroke. ($992,394, 2013-2018)
Morshead CM, Miller F (PI), Mabbott D, Frankland P. Brain Canada - Recruitment of endogenous neural stem cells to promote repair following acquired brain injury in children. ($1,500,000, 2013-2016)
Morshead CM (PI), Corbett D. Canadian Partnership for Stroke Recovery (Heart and Stroke Foundation) - Stimulating endogenous brain repair to promote cognitive recovery following neonatal hypoxia-ischemia ($50,000, 2014-2015).
Sun HS (PI) NSERC Discovery Grant ($165,000 2011 - 2016).
Sun HS (PI) CIHR China-Canada Joint Health Research Initiative ($225,000, 2014-2016).
Sun HS (PI) Heart and Stroke Foundation Grant in Aid ($285,950, 2013-2016).
**Sun HS (PI).** Dean’s Fund New Staff Grant ($10,000, 2013-2014).

**Sun HS (PI).** Scottish Rite Charitable Foundation of Canada ($105,000 2012 - 2015).

**Trainee Awards**

The trainees supervised by division faculty have received a number of accolades this past year. Nadia Sachewsky (Morshead, supervisor) successfully defended her PhD for her thesis “Activating neural stem and progenitor cells to enhance neural repair”. Nadia was also awarded a Travel Award to the International Society for Stem Cell Research and selected for a poster teaser presentation at the meeting. Philip Donofrio (Agur&Koeberle, co-supervisors) defended his MSc thesis and has started his PhD in the Department of Rehabilitation Science under the supervision of Dr. Paulo Koeberle. Parvati Dadwal (Morshead, supervisor) was the recipient of a CIHR training fellowship. Her work was also selected from over 400 abstracts to be presented at the International Regenerative Medicine conference in Germany. Her work was selected for the Laidlaw manuscript competition at the Department of Surgery Gallicy Day. Labeeba Nusrat (Morshead, supervisor) was awarded the Ontario Graduate Student Fellowship. Summer students trained in the Division were recipients of Undergraduate Summer Research Fellowships (Ashkan Azimi, Morshead) and were the recipients of un

**Publications:**


curriculum for physical medicine and rehabilitation residents.” Anatomical Sciences Education, 7, 135-143.


Books:

Invited speaker:

A. Agur: Mexican Anatomy Congress, October 2, 2013. Webinar. Title: Clinical Anatomy and Grant’s Atlas.

A. Agur: Innovative hand anatomy education and orthotic intervention. Canadian Association of Occupational Therapists Annual Conference, Preconference workshop, Victoria, BC, May 29-June 1, 2013 (7 hours)

A. Agur: Anatomy Softwear Glove Learning System. Department of Occupational Science and Occupational Therapy Faculty Research Symposium. Hart House, University of Toronto, Toronto, ON.


J. Laprade: Not Giving up Aikido for Osteoporosis: Individualization of Exercise at its Best, Canadian Society for Exercise Physiology (CSEP) Annual General Meeting and Conference. Toronto, Ontario, Canada.


CM. Morshed: Plenary Speaker. Promoting self repair of the injured CNS. Till and McCulloch Meeting, Banff, AB

CM. Morshad: Stem cell based therapies to treat Cerebral Palsy: Promoting self-repair. Centre for Stroke Recovery, Montreal, AC

CM. Morshad: Novel therapeutics to promote stem cell based neural repair. Neuro- translational Talks, Ontario Stem Cell Initiative, Toronto, ON


CM. Morshad: Neural stem cells: From basic biology to tissue repair. University of Montreal Speaker Series, Montreal, QC

CM. Morshad: Primitive neural stem cells in the adult brain. Donnelly Seminar Series, University of Toronto

CM. Morshad: Neural stem cells: From basic biology to tissue repair. SURP Seminar Series, University of Toronto

M. Wiley: Keynote Speaker Transition to Residency Dinner
M. Wiley: “The Last Lecture” Invited by the University of Toronto Medical Class to give the final lecture of the Tovee lecture series and the last lecture of their undergraduate medical program.

**Awards and Appointments**

Dr. Anne Agur: Excellence in Undergraduate Life Sciences Teaching Awards, Faculty of Medicine, University of Toronto. This award recognizes sustained excellence in integrating research in undergraduate teaching in Arts and Science within Basic Science Departments in the Faculty of Medicine.

Dr. Anne Agur: Longstanding Academic Contribution and Collaboration from an External Partner Award. Division of Physiatry, Department of Medicine, Faculty of Medicine, University of Toronto. In recognition of continued scholarly and collaborative academic contributions in the Division of Physiatry, University of Toronto.

Dr. Barbara Ballyk: Excellence in Undergraduate Teaching in Life Sciences, Faculty of Medicine, University of Toronto. (Undergraduate Education, B. Sc.). This award recognizes outstanding and sustained contributions to undergraduate Arts and Science teaching in Life Sciences programs and the undergraduate experience at the University of Toronto.

Dr. Mike Wiley: Dr Mary Hollington Excellence in Pre-Clinical Teaching Award. This award is presented to a teacher who has demonstrated excellence in the preclinical undergraduate medical education curriculum. Selected by Graduating Medical Class.

Dr. Cindi Morshead has taken on the role of CIHR University Delegate for a 3 year term.

**Visiting Scientists**

Philip Fabrezio from Mercer University, Atlanta, GA, USA. obtained a visiting scholarship from the American Association of Anatomists to join the Musculoskeletal Laboratory directed by Anne Agur.

The Division is preparing for some big changes as the undergraduate medical curriculum is being redesigned. The proposed changes will impact all aspects of our facilities and we are continuing to work closely with the curriculum directors, Deans and facilities management. Undoubtedly these changes will have a positive impact on medical training.
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. Trillium Health Center has become an important leader in teaching for our cardiac surgery residents.

We have continued to work towards greater integration of our clinical efforts and this integration is exemplified by the Toronto Aortic Collaborative which focuses on aortic disease. A recent initiative lead by Mark Peterson and Maral Ouzounian (cardiac surgery) and Andrew Dueck (Vascular Surgery) will work to create a single point of access for CritiCall referrals for patients with acute aortic syndromes.

The Cardiovascular Data Management Center (CVDMC) seeks to encourage greater university-wide integration of quality improvement and clinical research activities by aggregating all clinical data on patients with cardiovascular disease in a single linkage-rich environment for the benefit of any clinician or researcher interested in cardiovascular disease.

Recruitment

William Stansfield was recruited to the join the Cardiac Surgery group at the Toronto General Hospital as an Assistant Professor and a Surgeon Scientist with specific expertise in end stage heart disease.

Promotions

Subodh Verma (St. Michael’s Hospital) was promoted to Full Professor in June 2014.

Research Grants

Christopher Caldarone holds a Canadian Institute of Health Research Pulmonary Vein Stenosis grant: Focus on Upstream Vasculopathy and one Children’s Heart Foundation grant, Understanding Right Ventricle Physiology of Tetrology of Fallot grant.

John Coles holds a Heart & Stroke Foundation of Ontario grant, Rescue of disputed mechanotransduction as a new therapeutic strategy in human dilated cardiomyopathy.

Osami Honjo holds a Labatt Family Heart Centre grant, Brain and Myocardial Protection by Extracorporeal Cardiopulmonary Resuscitation in Piglet Model of In-Hospital Cardiac Arrest Brain Injury.

Subodh Verma holds a Canada Foundation for Innovation grant, (John R. Evans Leaders Fund) Molecular pathology of cardiovascular disease: understanding how gene expression is perturbed in clinical samples. Heart and Stroke Foundation of Ontario grant, Role of autophagy in cardiovascular disease: a bench to bedside translational approach. Brigham and Women’s Hospital and National Heart, Lung, and Blood Institute (NHLBI)/National Institutes of Health (NIH) grant, Cardiovascular Inflammation Reduction Trial.

Resident/Fellows Honours/Awards/Positions Held

Sas Deb received the 2013 Heimbecker Award for Surgical Research.

Rachel Vanderlain was awarded a Banting Postdoctoral Fellowship by the Canadian Institutes of Health Research to support her research into the role of myoflament mechanics and calcium handling in the pathogenesis of hypertrophic cardiomyopathy under the mentorship of Peter Backx in Toronto and Pieter deTombe (Loyola University).

Rachel Vanderlain received funding for her work entitled “Understanding Right Ventricular Physiology in Tetralogy of Fallot” from the Children’s Heart Foundation.

Faculty Honours/Awards/Positions Held

George Christakis received the Dean A.L. Chute Award (The Silver Shovel) undergraduate teacher who is deemed to have demonstrated excellence in overall clinical teaching in the undergraduate medical program.

George Christakis received the Bernard Goldman Award for Excellence in Cardiac Surgery Teaching award.

RJ Cusimano was awarded the 2013 Bruce Tovee Undergraduate Teaching Award.

David Latter was awarded the James Yao Award for Excellence in Cardiac Surgery Teaching Award.

Fuad Moussa was awarded the Peters-Boyd Academy Clerkship Teaching Award.

Joe Noora was appointed the Divisional Undergraduate Education Director at Trillium.

Glenn Van Arsdell was awarded the William G. Williams Award for Excellence in Cardiac Surgery Teaching Award.

Subodh Verma received the Royal College Gold Medal in Surgery for his work entitled: “BRCA1 is an essential regulator of heart function and survival following myocardial infarction” at the 2013 Canadian Cardiovascular Congress.

Terry Yau received the Lynda L. Mickleborough Award
for Excellence in Cardiac Surgery Teaching award.

**Visiting Professors**

**Joseph Dearani**, Chief of Cardiovascular Surgery at the Mayo Clinic presented the 2013 Heimbecker Lecture entitled “Hypertrophic Cardiomyopathy – Surgery for Obstructive & Non-obstructive types” followed by a lecture to the Labatt Family Heart Center entitled “Ebstein Anomaly - What operation and When to do it”.

**Kenneth W. Kizer**, former Director of the US Department of Veterans Affairs and founding President and CEO of the National Quality Forum presented the 2013 Bigelow Lecture entitled ‘Achieving Change in Complex Systems’.

**Division Firsts**

**Mark Peterson** and a team from Saint Michaels Hospital implanted a novel transcatheter mitral valve through a left ventricular apical incision. The valve is indicated for high risk patients with severe native mitral valve regurgitation. This was the first implantation of this device in North America.

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Faculty Development Day 2014

Michael Fehlings, Charles Tator, James Rutka, Albert Yee

C. Tator B. Turnbull
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 Drs. Chethan Sathya and Marisa Louridas won prizes in the Gallie-Bateman research competition in the 2013-14 academic year. In addition, Dr. Grace Ma was first nation-wide out of all 590 residents on the CAGS exam and Dr. Matt Strickland won the National CAGS Laparoscopic Suturing Competition in Ottawa.

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.

There were many major teaching awards won during the year including Dr. John Hagen winning the Faculty Award for Excellence in Community-Based Teaching, Dr. Stan Feinberg winning the PARO award for Excellence in Clinical Teaching and Dr. Darlene Fenech winning the Tovee Award for Excellence in Undergraduate Teaching at the University of Toronto. Once again, awards won by Drs. Hagen and Feinberg are testament to the strength and importance of the roles that the “community-based” hospitals play 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. Marisa Louridas and Chethan Sathya won 3rd and 4th prize respectively at the Gallie day this year for wide-ranging work on topics including. Dr. Avery Nathens won the Carolyn Tuohy Impact on Public Policy Award in addition to the Tator Award for Mentorship.

Faculty Development

Dr. Nicole Look Hong was recruited to the Breast Surgical Oncology team at the Sunnybrook Hospital. Dr. Julie Hallet was also recruited to Sunnybrook to the HPB Surgical Oncology team. Dr. Jory Simpson was recruited to the Breast Surgical Oncology unit at St. Michael’s Hospital. In addition, a number of Physician Assistants were hired across the city to assist in the care of our surgical patients.

Drs. Sean Cleary, Tom Harmantas and Erin Kennedy were promoted to Associate Professor. Dr. Calvin Law was promoted to Full Professor.

The graduating class from the Gallie program in General Surgery this year numbered ten. This group of individuals went on to next steps including some who went on to prestigious fellowships in the United States.
The Division of Neurosurgery enjoyed another year of excellence in the academic, research, clinical and teaching domains. Our 64 Faculty and residents performed over 6,000 cases and published over 360 papers. Our members received prestigious awards and distinctions, including James Rutka’s election to the Order of Ontario and Michael Fehlings’ appointment as Vice Chair Research in the Department of Surgery. Our residents again took home the McKenzie Prizes for the best clinical research in Canada performed by neurosurgical trainees. We launched a new city-wide Brain Tumor Bank at the University of Toronto, thanks to the generous support of the Dan Family. And on October 6-8, 2013, we celebrated 90 Years of Neurosurgery at the University of Toronto with a three-day event attended by over 250 participants including a panel of world-leading scientific speakers and our alumni from around the world.

Recruitment.
We welcomed Suneil Kalia to the Neurosurgical Faculty at Toronto Western Hospital.

Research Grants.
Our neurosurgeons and affiliated neuroscientists held over $34.4M in total grant funding, including 19 newly awarded research grants.

Resident/Fellows Honours/Awards/Positions Held
George Ibrahim (PGY4) and Shobhan Vachhrajani (PGY5) won the 2014 K.G.McKenzie Prizes in Clinical Neuroscience Research.

David Cadotte (PGY4) received the Gallie Bateman Award, 1st Place, for the top paper presented by a Surgeon-Scientist Program trainee in the Department of Surgery.

Faculty Honours/Awards/Positions Held
R.S. McLaughlin Chair of Surgery James Rutka was elected to the Order of Ontario, the Province’s highest honour.
- Michael Fehlings was appointed as Vice Chair Research in the Department of Surgery at the University of Toronto.
- Michael Taylor and Peter Dirks at the Hospital for Sick Children received Garron Family Chairs in Childhood Cancer Research.
- Fred Gentili was appointed as the Alan and Susan Hudson Chair in Neuro-Oncology at University Health Network.
- Charles Tator delivered the inaugural Charles Tator Honorary Lectureship on Spinal Trauma at the Annual Scientific meeting of the AANS.

- Andres Lozano received the 2013 Margolese National Prize in Brain Disorders, awarded to a Canadian who has transformed care in heart and brain diseases.
- Gelareh Zadeh won 2014 Bernard Langer Surgeon-Scientist Award, presented annually to an outstanding graduate of the Surgeon-Scientist Training Program in the Department of Surgery who shows the greatest promise for a career in academic surgery.
- Todd Mainprize received the Marvin Tile Distinguished Service Award at Sunnybrook Hospital.
- Andres Lozano was appointed as Chair of the Scientific Advisory Committee of the Weston Brain Institute.
- Michael Fehlings was elected to the Canadian Academy of Health Sciences.

Visiting Professors
John Kestle, University of British Columbia, 28th E. Bruce Hendrick Visiting Professorship, Oct. 8, 2013
Juan C. Fernandez-Miranda, University of Pittsburgh, 46th Lougheed Microsurgical Course, Oct. 28-Nov. 1, 2013
Sebastien Froelich, Hôpital Lariboisière, Paris, 47th Lougheed Microsurgical Course, Mar. 31-Apr 3, 2014 and City-Wide Rounds, Toronto Western Hospital, Apr. 3, 2014.
Howard Riina, NYU Langone Medical Center, City-Wide Rounds at St. Michael’s Hospital, May 23, 2014
Franco De Monte, MD Anderson Cancer Center, 39th William S. Keith Visiting Professorship, Jun. 12-13, 2014
Peter Vajkoczy, Charite Universitätsmedizin, Berlin, City-Wide Rounds at Sunnybrook Hospital, Jun. 27, 2014

Division Firsts
I January 10, 2014 marked the first Skype broadcast by the University of Toronto Brain School to the Neurosurgery Program in Kijabe, Kenya, as part of International Surgery Rounds. We thank Alireza Mansouri (PGY3) for his efforts in this initiative.
I Our Division held its first Cerebrovascular Neurosurgery Soiree on Feb. 24, 2014 with Faculty participation from each of our four hospitals. Attendees presented developments in clinical, research and teaching work at their sites, and discussed opportunities for new synergies across the University-wide program. The event was followed by Soirees for Neurooncology (March 3), Spine (April 14) and Gamma Knife Surgery (May 26).
Leadership Changes/Progressions
Michael Fehlings was appointed as Vice Chair Research in the Department of Surgery at the University of Toronto.

Royal College Fellowships
The following PGY6 residents successfully passed their FRCSC fellowship examinations: Julius Ebinu, Aria Fallah, Carlo Santaguida, Mehdi Shahideh and Sunjay Sharma.

It is with a sense of accomplishment that we can reflect on the past academic year. We have been enriched by new Faculty recruitment as well as by our 25 clinical fellows from around the world. We pause to remember the passing of Professor Emeritus Dr. Ross Fleming. We are on a strong course to continue leading our discipline globally in research and training. I thank each of our Faculty, fellows and residents for their tremendous dedication and contributions to the success of Toronto Neurosurgery.

SpineFEST 2014
Division of Orthopaedic Surgery

Peter Ferguson, Albert and Temme Latner Chair

It has been an enormous honour to serve as Interim Chair of this talented and energetic division over the past year. The following achievements and accomplishments serve to confirm that our division continues to stand among the best academic Divisions of Orthopaedics in the world.

We have recruited 3 new faculty – Dr. Tim Dwyer at Women's College and Mount Sinai Hospitals, Dr. Aaron Nauth at St. Michael's Hospital and Dr. Jihad Abouali at Toronto East General Hospital.

Dr. Albert Yee was promoted to full professor and Dr. Veronica Wadey was promoted to Associate Professor. Amongst various grants received, both Dr. Sevan Hopyan (“Genetic control of mammalian limb pattern”) and Dr. Tom Willett (“Engineering of irradiation-sterilized skeletal allograft for improved clinical outcomes”) received operating grants by the CIHR.

The Lawson award for best academic resident went to Simon Harris, and the Meisami award for most compassionate resident went to Laura Kember and Simon Harris. Junior Lawson Awards went to Matthew Tsuji (PGY 4), Alireza Naderipour (PGY 3) Ujash Sheth (PGY 2) and Zachary Tan (PGY 1). The R.J. Harris Award for the best resident research presentation at the Graduation Day went to Kevin Koo and the award for the best debate went to Justin Hodgins. The James Waddell award for the best PGY 4 resident was awarded to Bheeshma Ravi. Bheeshma also won the Robin Sullivan Award for best presentation at Resident Research Day. At the Canadian Orthopaedic Residents Association meeting, Mike Zywiel PGY-3 was awarded the JA Nutter award for the best research project. This award, which is open to all orthopaedic residents across Canada, has been won by residents from the University of Toronto 5 times since 2007. Furthermore, Sam Park PGY3 won the COA Award for 3rd place at the meeting. Aidin Kashigar (UofT medical student) received the CanOOS award for best trainee oncology presentation at the Canadian Orthopaedic Association. This award has been won by UofT trainees the past 2 years. Michael Olsen PGY-1 was awarded the Sopman Humanitarian award at TWH/UHN. At our recent 5th Annual Fellowship Day, Brian Devitt, Ryan Martin and Cara Cipriano were awarded prizes for the best fellow research projects.

Jeremy Hall received the Divisional Award for Best Teacher as selected by the residents. Oleg Safir was awarded the Excellence in Post Graduate Medical Education Award – Development and Innovation from the University of Toronto. This award, which is open to all faculty members in the Faculty of Medicine, has been won by members of the Orthopaedic Division 5 years in a row! Rajiv Gandhi has been named an ABC travelling fellow for 2013.

Visiting professors in 2013/14 included Perry Schoenecker (St. Louis), Steven Mac Donald (London, ON), David Stanley (Sheffield, England), Michael Reed (Ashington, England) and Andrew Furey (St. Johns, Newfoundland). We had the third Stefansky lecture for teaching better communication to orthopaedists. Mohit Bhandari (Hamilton) was our lecturer. Our Graduation Day Visiting Professor was Robert Grimer from Birmingham UK. He gave a fabulous and very insightful “The past, present and future of Orthopaedic Oncology” talk as his Salter lecture.

Special recognition goes to Dr. Bob Bell for being named the Deputy Minister of Health for the Province of Ontario.

All of our trainees were successful on their recent specialty exams. We welcome Ilyas Aleem, Herman Dhotar, Simon Harris, Justin Hodgins, Laura Kember, Kevin Koo, Clifford Lin, Brent Mollon, Hadi Sayedi, Steven Sylvester, David Walmsley and Cameron Yau as newest Fellows of the Royal College.

I’m sure there are myriad other awards and accolades that I could mention, these are but a few. Thanks to everyone for your tremendous support of our division and program over the past year. I’m incredibly excited about our collective future!
Division of Plastic and Reconstructive Surgery

Christopher R. Forrest, MD, MSc, FRCSC, FACS Chair

The division has expanded tremendously and has grown into a consolidated group of 49 surgeons, 3 senior scientists, 26 residents and 25 fellows working at 12 units in 10 teaching hospitals in the greater Toronto area all under the University of Toronto academic mission. Our division has expertise in the entire breadth and depth of Plastic and Reconstructive Surgery in the arenas of pediatric surgery, cleft, craniofacial, burns, microsurgery, hand, facial reanimation, upper extremity, breast, aesthetic and oncologic surgery providing state of the art in patient care. Our program and its members are recognized across the globe and we attract a large number of medical observers who travel to visit and see firsthand the innovative techniques developed here. We train the largest number of residents and fellows in the country including tomorrow’s generation of surgeon-scientists.

Departures:
W. R. N. Lindsay, MD, FRCSC (1926 - 2013). The Division of Plastic and Reconstructive Surgery at the University of Toronto was saddened to hear of the passing of Dr. William R. N. Lindsay on November 3, 2013 at the age of 87. “WRN” graduated from the University of Alberta in 1949 and pursued his post-graduate training in Toronto and the UK. Dr. Lindsay became the first chief of the Division of Plastic Surgery at the Wellesley Hospital in 1966 at the corner of Wellesley and Sherbourne for many years and was one of the first to develop the Rosedale Medical Clinic, a free-standing surgi-centre. With Dr. Leith Douglas, the Wellesley rotation was one of the best opportunities for surgical residents to access great pathology and fascinating cases. He was also one of the pioneers in trans-gender surgery and had a busy aesthetic practice. He was one of the founding members of MANUS Canada and under his direction developed the Wellesley Hospital Aesthetic Surgery Symposium. This event continues as the UoT Annual Aesthetic Plastic Surgery Symposium which held its 43rd event earlier this year. A lecture is named in honor of Dr. Lindsay and delivered yearly. Dr. Lindsay joined the Canadian Society of Plastic Surgery in 1958 and was the society president at the - Victoria meeting in 1972. Although he retired several years ago, he continued to support the Division of Plastic and Reconstructive Surgery and attended the 2011 residents graduation dinner. His efforts along with Leith Douglas and Ross Tilley led to the development of a regional burn centre at the Wellesley Hospital.

Joel Fish - I am indebted to the tireless efforts of Dr. Joel Fish who has done a phenomenal job over the past 8 years as the Division Research Director. Joel’s efforts have transformed the annual resident research day to a world-class event which highlights the high quality of research performed by the residents of the division. His personal interest in ensuring the success of each of the residents in their projects is a touch of class. Thank-you to Joel for elevating the bar to a new standard.

Peter Bray - For the last few years, the Division M&M rounds have rested in the very capable hands of Dr. Peter Bray (UHN) and I would like to take this moment to thank him for his efforts and dedication. These rounds are an integral component to both education and also Quality Improvement as well as a significant opportunity for the senior residents to practice their positions on the “hot seat”.

Recruitment:
Karen Wong was recruited as an Assistant Professor as well as Quality Improvement Coordinator in the Division of Plastic and Reconstructive Surgery, University of Toronto and began her staff appointment at the Hospital for Sick Children on August 19, 2013. Commencing July 1, 2014, Karen will be taking over coordinating the Division City-Wide M&M Rounds.

Greg Borschel was appointed as the new Research Director of the Division of Plastic and Reconstructive Surgery, University of Toronto on June 30, 2014. Greg is well suited to manage this division portfolio given his record of success in the research world in terms of mentorship, surgeon-scientist trainees, peer-reviewed grants and innovations in the research world.

Promotions
Manuel Gomez (Sunnybrook Health Sciences Centre) was promoted to Associate Professor
Toni Zhong (UHN) was promoted to Associate Professor

Faculty and Resident Grants
Greg Borschel: Use of a tissue engineered nerve graft to improve nerve regeneration. Comprehensive Research Experience for Medical Students (CREMS). Summer Program 2014. Collaborator(s): Tessa Gordon, David Scholl (U of T medical student) $2,750 CAD.

Greg Borschel, Joseph Catapano: Evaluation of the novel aminopropyl carbazole in nerve regeneration. RestraComp. Postdoctoral fellowship funding program. P7C3 and its analogs will be tested in neonatal and adult models of peripheral nerve injury to determine efficacy and dose response relationships. July 2013-June 2015 ($80,000 CAD)
Greg Borschel, Tessa Gordon, Molly Shoichet: Enhancement of nerve regeneration with controlled release of neurotrophic factors. Canadian Institutes of Health Research / CIHR. operating grant, CIHR/NSERC Collaborative Health Research. The goal of the project is to enhance nerve regeneration by local controlled release of glial derived neurotrophic factor (GDNF) to rescue neurons from degenerating after injury. April 2013- April 2016 ($336,711 CAD).

Greg Borschel, Ron Zuker, Elizabeth Donner, Douglas Cheyne: Sensorimotor plasticity following reconstructive surgery for facial nerve palsy. The Hospital for Sick Children. Peri-Operative Service. We propose to use a combination of functional and structural brain imaging techniques to study sensorimotor cortical plasticity underlying motor function recovery in children undergoing dynamic facial reanimation at the Hospital for Sick Children. The hypothesis that cortical reorganization underlies these changes in sensorimotor function will be tested using magnetoencephalographic (MEG) functional mapping prior to and after surgery. We will also take advantage of a novel, unique, validated motion tracking system for monitoring facial kinematics developed at SickKids. July 2013-July 2015 ($395,410 CAD)

Greg Borschel, Joseph Catapano: Enhancement of nerve regeneration with aminopropyl carbazoles following nerve injury. PSI Foundation. PSI Foundation. The applicants propose to investigate the utility of using a novel molecular tool to enhance motor and sensory neuron survival and to improve regeneration and behavioral recovery following peripheral nerve injury. July 2013-June 2014 ($11,750 CAD)


Rob Cartotto: Queen’s University - John F. Sparks Memorial Studentship (Summer Research). Collaborator(s): Student: Li, Zeyu. ($5,000 CAD, 2013).

Rob Cartotto: Queen’s University - John F. Sparks Memorial Studentship (Summer Research). Collaborator(s): Student: Steve Hanna. ($5,000 CAD 2013).


Manuel Gomez, Paula J. Gardner, Dafna Knittel-Keren, Jennifer Shaffer: Screening Outpatients for Psychological Distress, Access to Psychological Services, Functional Capacity and Insurance Coverage Following Traumatic Injury. Practice-Based Research Award, Sunnybrook Health Sciences Centre, $6,000 (Dec 2013-Nov 2015)

Christine Novak, Steve McCabe and Jamil Ahmad: Botulinum Toxin Type A for cold sensitivity after hand trauma. PSF/AAHS Combined Pilot Research Grant ($9,980USD 2013-2014).

Cho Pang: Miscellaneous Funding; $ 105,000; July 1,2013-December 30, 2014.


Laura Snell: Awarded the 2014 CSPS Outcomes Grant for her study “A novel touch-based educational module for intraoperative training in plastic surgery”.


Residents Honours/Awards/Positions Held

Katie Armstrong: Received the 2014 American Telemedicine Association Student Paper Award for her paper “Breast Reconstruction Follow-up Using QoC Mobile App: A Societal Economic Evaluation” with co-authors John Semple and Peter Coyte.

Katie Armstrong: Mentor Canada, Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award, 2014. Title: “Replacing Ambulatory Surgical Follow-up Visits with Smartphone Home Monitoring: Modeling Cost-Effective Scenarios”. Authors: K. Armstrong, P. Coyte, and JL Semple. Supervisor: Dr. John Semple


Heather Baltzer: 2014 GAM Canada Scholarship Award.

Joseph Catapano: Awarded first prize at the Hospital for Sick Children 2014 Peri-Operative Research Symposium in the Basic Science category for his work entitled “Enhancement of nerve regeneration following neonatal nerve injury.”

Siba Haykal: 2014 Hugh G. Thomson Humanitarian Award was presented to Dr. Siba Haykal. 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). During his tenure, he mentored and influenced hundreds of students, residents and fellows and was integral in shaping the Canadian Society of Plastic Surgeons with the introduction of the “Resident’s Corner” and “Beyond the Knife”. Above all, Dr. T was known for his values of collegiality, honesty, generosity, mentorship and humanitarianism. To commemorate his legacy, the Thomson family and the Division of Plastic and Reconstructive Surgery at the Hospital for Sick Children have established an award in his name to be given to the trainee in Plastic and Reconstructive Surgery who best emulates his philosophies as a humanitarian. It was a pleasure to commemorate his philosophies by recognizing Siba as this year’s recipient.

Mike Hendry: Surgeon Scientist Trainee Dr. J. Michael Hendry successfully defended his MSc thesis “The ERBB2 receptor pathway regulates regeneration following the acute and chronic repair of nerve injuries” under the supervision of Dr. Greg Borschel with senior scientist, Dr. Tessa Gordon as co-supervisor. This work was performed over the past 2 years in Dr. Borschel’s lab at the Hospital for Sick Children and represents innovative and unique insights into the pathophysiology of peripheral nerve injury.

Mike Hendry: Best Basic Science Award, Division of Plastic and Reconstructive Surgery, University of Toronto 2014. Title: “The Monoclonal Antibody Nerceptin Improves Regeneration After Injured Nerves are Repaired Immediately or After a Period of Chronic Denervation” Authors: JM Hendry, E Placheta, T Gordon and G. Borschel. Supervisors: Dr. Greg Borschel.

Mike Hendry: Successful defense of MSc thesis “The ERBB2 receptor pathway regulates regeneration following the acute and chronic repair of nerve injuries” under the supervision of Dr. Greg Borschel with senior scientist, Dr. Tessa Gordon as co-supervisor through IMS.

Jennica Platt: Awarded 2nd Place in the Gallie-Bateman - University of Toronto Department of Surgery research award for research by a trainee enrolled in the Surgical Scientist Training Program – “Pre-consultation educational group intervention to improve shared decision-making for post-mastectomy breast reconstruction: A pilot randomized controlled trial” (Supervisor: Dr. Toni Zhong, UHN - $1,000).


Jennica Platt: 2013 Canadian Society of Plastic Surgery Educational Foundation Award for Best Presentation by a Resident in Epidemiology and Biostatistics ($500)

Natalia Ziolkowski: Conference Poster acceptances include:

Faculty Honours/Awards/Positions Held

Jamil Ahmad: Invited Speaker: June 2014 The National Hospital in Oslo, Norway
1. Clinical analysis and nasofacial proportions
2. Key concepts in open rhinoplasty
3. Safe management of the nasal airway

Jamil Ahmad: April 2014 The American Society for Aesthetic Plastic Surgery
1. Panel Co-Moderator, Shaped vs. round - Can you tell the difference?
2. Scientific Session Co-Chair, Rhinoplasty

Jamil Ahmad: April 2014 The University of Toronto Aesthetic Plastic Surgery Symposium
1. Course Director
2. Incorporating drainless abdominoplasty into your practice

Jamil Ahmad: March 2014 The Dallas Rhinoplasty Symposium
1. Anatomy LabCo-Director
2. Reassessing the nasal-chin relationship
3. Safe management of the nasal airway
4. Role of fillers in rhinoplasty today
5. Panelist, Clinical analysis: How I do it
6. Panelist, Three cases in my practice from which I learnt the most
Jamil Ahmad: March 2014 The Dallas Cosmetic Symposium
1. Drainless abdominoplasty: Making it work in your practice
Jamil Ahmad: September 2013 Canadian Society for Aesthetic Plastic Surgery
1. Assessing patient safety in Canadian surgical facilities: Results from the 2010 CAAASF survey

Dimitri Anastakis: University of Toronto: Member, Governing Council Academic Board, Toronto, Ontario, Canada. Member, Faculty of Medicine, Academic Board. Member, Faculty of Medicine Design Thinking Working Group, Toronto, Ontario, Canada.

Dimitri Anastakis: Facilitator. Surgery Education Retreat and Strategic Planning, State University of New York at Stony Brook, School of Medicine. Stony Brook, New York, United States. Presenter(s): Anastakis DJ and Scriven R. Facilitate education planning session. Faculty divided into 5 working groups and each addressed the following education strategic priority (1) Innovating the curriculum (2) Teaching Excellence; (3) Educational Technology; (4) Structure and Governance and (5) Scholarly training. Mar 11, 2014.


Dimitri Anastakis: Course Instructor. Leadership Competencies, American College of Surgeons, Surgeons as Educators. Atlanta, Georgia, United States. Presenter(s): Anastakis DJ. Overview of leadership competencies required in health professions education. Sept 10, 2013.

Dimitri Anastakis: Course Instructor. Personal and Career Goal Development, American College of Surgeons, Surgeons as Educators. Atlanta, Georgia, United States. Presenter(s): Anastakis DJ. The four D model for career development. Sept 10 2013.

Dimitri Anastakis: Facilitator. Microteaching, American College of Surgeons, Surgeons as Educators. Atlanta, Georgia, United States. Presenter(s): Anastakis DJ, Sept 10 2013.


Dimitri Anastakis: Speaker. Continuing Professional Development - The Importance of having Influence and Power, AAME. Prague, Czech Republic. Presenter(s): Anastakis DJ. Outline of past and present levels of influence and power held by CPD both at the Faculty of Medicine/UofT and provincial levels. Aug 24, 2013.


Oleh Antonyshyn: Other Creative Professional Activity: Medical Mission to Ukraine: Urgent Medical Needs Assessment, Invited by the Ministry of Health, Ukraine. Supported by the Canadian Ukrainian Foundation. Kyiv and Lviv, Ukraine, April 3-11, 2014

Oleh Antonyshyn: Member of Canadian Ukrainian Foundation (CUF) Medical Response Committee. Executive Committee Member, Appointed April 2014

Oleh Antonyshyn: Invited Speaker: Launching a Medical Device Startup Company. Professor’s Rounds, Division of Plastic Surgery, University of Toronto, June 13, 2014

Oleh Antonyshyn: CUF Medical Needs Mission to the Ukraine. Resident Rounds, Division of Plastic Surgery, University of Toronto, June 13, 2014

Oleh Antonyshyn: Current Management of Facial Trauma. Keynote Address: Orthopedic Acute Care and Beyond Conference, Sunnybrook Health Sciences Centre, Toronto, June 19, 2014

Oleh Antonyshyn: Complications of Mandibular Fractures and Their Treatment. AO CMF Principles of Operative Treatment of Craniomaxillofacial Trauma and Reconstruction, Montreal, Canada, June 24, 2014


Oleh Antonyshyn: Adult Craniofacial and Post trauma deformities . Invited lecture, Faculty of Dentistry, University of Toronto, Postgraduate Cleft Lip and Palate and Craniofacial Anomalies Course, Jan 27, 2014

Oleh Antonyshyn: Course Chairman: AO CMF Principles of Operative Treatment of Cranio-maxillofacial Trauma and Reconstruction, Montreal, Canada, June 24, 2014


Paul Binhammer: Awarded Arnis Freiberg Faculty Teaching Excellence Award 2014.

Greg Borschel: Awarded the George Armstrong Peters Prize for 2014. This is awarded to a young investigator who has shown outstanding productivity during his/her initial period as an independent investigator as evidenced by research publications in peer reviewed journals, grants held, and students trained and represents the highest level of recognition that can be bestowed by the Department of Surgery on a young surgeon.


Greg Borschel: Invited Speaker. End to Side Nerve Repair. American Society for Peripheral Nerve. Kauai, Hawaii, United States. Presenter(s): Borschel, Gregory H; Fausto Viterbo; Ayato Hayashi. This course will present the scientific basis for the clinical use of end to side nerve repairs. The faculty will present clinical cases in which this technique is used, and discuss the risks, benefits, potential complications and outcomes following the use of the technique. (Trainee Presentation). Jan. 12, 2014.

Greg Borschel: Presenter. End to Side Nerve Repair. American Society for Peripheral Nerve. Kauai, Hawaii, United States. Presenter(s): Borschel, Gregory H. This course will present the scientific basis for the clinical use of end to side nerve repairs. The faculty will present clinical cases in which this technique is used, and discuss the risks, benefits, potential complications and outcomes following the use of the technique. (Trainee Presentation). Jan. 12, 2014.


Greg Borschel Speaker. Functional MRI assessment of cerebral cortical plasticity in children with congenital facial palsy who have undergone dynamic facial reanimation by gracilis muscle transfer. International Facial Nerve Symposium. Boston, Massachusetts, United States. Presenter(s): Swan, Marc C; Simon, T; Donner, Elizabeth; Wang, Frank; Borschel, Gregory H; Zuker, Ronald M. 2013 Jun 29


Greg Borschel Invited Speaker. Nerve substitutes; state of the art / Vascularized composite allotransplantation; a specialty in evolution. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 14

Greg Borschel Invited Speaker. Congenital hand surgery - Syndactylly. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 14

Greg Borschel Invited Speaker. Pediatric hand trauma. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 14

Greg Borschel Invited Speaker. Pediatric sarcoma reconstruction. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 14

Greg Borschel Invited Speaker. Use of the ten test in children. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 14

Greg Borschel Invited Speaker. Reconstruction of the anophthalmic orbit. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 13

Greg Borschel Invited Speaker. Facial palsy in children in an oncologic setting. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 13


Greg Borschel Invited Speaker. Neuroprotection with P7C3 to rescue neurons from death / Enhancement of nerve regeneration with controlled delivery of neurotrophins / protection of distal nerve stumps with end to side nerve grafts to improve nerve regeneration in the hindlimb and the face. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 12

Greg Borschel Invited Speaker. Outcomes measure in nerve regeneration research / Development of a transgenic rat expressing green fluorescent protein in its nerves and neurons. Dr. Fausto Viterbo / UNESP, Sao Paulo State University. Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. 2013 Jun 11


Greg Borschel Presenter. Tissue Engineering and Regenerative Medicine. American Society for Peripheral Nerve (ASPN). Naples, Florida, United States. Presenter(s): Borschel, Gregory H; Midha, Rajiv. This course will discuss new ideas of bioengineering for the construction of improved artificial nerve conduits by the use of skin-derived precursor cells, adult autologous Schwann cells and cytokine/drug delivery. 2013 Jan 13

Mitch Brown: Induction into the membership of the American Association of Plastic Surgeons 2014. Criteria for membership in this prominent society are robust and the candidate must show recognized contributions of quality in the field of plastic surgery as a pre-requisite to membership. They will be expected to have made outstanding contributions to the field of plastic surgery in the areas of education, research or clinical excellence.


Mitch Brown: Invited Speaker: Rome Breast Surgery Symposium, Rome, Italy, June 4, 2014. ADM and implant reconstruction with RT.


American Burn Association Annual Meeting. Palm Springs, California, United States. Apr 26, 2013: “From Grant to Bedside - Getting Started with Burn Research”


Howard Clarke: Invited Speaker: Toronto Obstetrical Brachial Plexus Palsy Workshop. Intervention / Activities: Toronto Obstetrical Brachial Plexus Palsy Workshop, Toronto, Ontario, May 9-10, 2014. Course Director, initiated concept, organized scientific meeting, chaired sessions for this international workshop which drew equal numbers of registrants from Canada, the United States and Europe. 2014 May 9 - 2014 May 10


Howard Clarke: Invited Speaker: Hand Injuries in Children, University of Toronto, Faculty of Medicine, Department of Surgery, Hand and Upper Extremity Update. Toronto, Ontario, Canada. Feb 8, 2014.


Joel Fish: Received the Chair’s Award for 2014. Many thanks to Joel for all of his dedication over the years.

Joel Fish: Received Fire Safety Award from the Fire Marshal’s Public Fire Safety Council at a ceremony on June 19, 2014 in Toronto. The annual Fire Safety Awards recognize outstanding contributions to fire protection and prevention in Ontario. “There is no question that the professional and enthusiastic support of the SickKids Burn Prevention Outreach Team has helped to increase public awareness about the risk of burns and scalds,” said Ted Wielcawek, Chair, Fire Marshal’s Public Fire Safety Council. “The result of their efforts is a safer environment at home, work and play for people of all ages.” The SickKids Burn Prevention Outreach Team’s ongoing commitment to fire safety includes public awareness campaigns with literature, posters, flyers and website postings.


Joel Fish: Hawaii Pediatric Burn Program Collaborative. Visits from various personnel from the Hawaii Pediatric Burn Program to aide in the restructuring of their program. 2013 Jul 15 - 2013 Jul 19

Joel Fish: Sick Kids Burn Program Verification - American Burn Association. The Sick Kids Burn Program underwent ABA verification. Verifiers from the American Burn Association reviewed the program in great detail on a 2 day visit. At the end of the two day visit, the Sick Kids Burn Program was recommended for verification. Program promotion within the institution. Program recognition world-wide. 2013 Aug 14 - 2013 Aug 15


Joel Fish: Invited Speaker. Treatment of Minor Pediatric Burns. CEPD, University of Toronto, Hospital for Sick Children. Toronto, Ontario, Canada. Presenter(s): Dr. Joel

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


Stefan Hofer: Invited Lecturer. Approach to Management


Leila Kasrai: Invited speaker at the joint winter meeting of BAPRAS/Irish society last 2013: Training of residents in aesthetic surgery- The Canadian Perspective.

Ron Levine: Received the Sustained Excellence in Community-Based Teaching award from the faculty of Medicine for his efforts promoting sustained and exemplary teaching skills, a demonstrated ability to stimulate learners to think critically, analytically and independently and commitment to the enhancement of the learner experience.


Steve McCabe: Received the William K. Lindsay Faculty Research Mentor Award 2014.


Steve McCabe: Instructional Course: Getting Out of the Tunnels – Managing Proximal Forearm Compression Neuropathy Faculty: Steven McCabe, MD; With: Elizabet Hagert, MD, PhD (chair), Robert Spinner, MD;

Christine Novak: AAHS/ASPN/ASRM Joint Outstanding Papers. Moderator: Christine B. Novak, PT, PhD; With Steven L. Moran, MD, Liza Wu, MD

Christine Novak: American Association for Hand Surgery, Poster Presentations


Christine Novak: American Society for Peripheral Nerve, Program Chair: Christine B. Novak, PT, PhD, Poster Session Co-Moderator: Steven McCabe, MD


Christine Novak: Kristen Davidge, MD, Lorna Kahn, PT, CHT, Christine B. Novak, PT, PhD, Neringa Juknis, MD, Rimma Ruvinskaya, MD and Ida K. Fox, MD. The Deltoid to Triceps Nerve Transfer: a Novel Approach to Early Salvage of Elbow Extension in Cervical Spinal Cord Injury

Christine Novak: American Association for Hand Surgery & American Society for Peripheral Nerve, combined program. AAHS/ASPN Panel: Radial Nerve Transfer vs. Tendon Transfer: What’s Best When, What’s The Evidence. Panel member: Christine B. Novak, PT, PhD; With: Robert Spinner, MD (moderator), Thomas Tung, MD; Allen T. Bishop, MD; David C. Ring, MD; Milan Stevanovic, MD Scientific Paper Session Co-Moderator: Steven McCabe, MD


Christine Novak: American Association for Hand Surgery, American Society for Peripheral Nerve and American Society for Reconstructive Microsurgery, combined program. Instructional Course: Nerve Transfers for Ulnar and Radial Nerve Injury Faculty: Christine B. Novak, PT, PhD; With: Amy M. Moore, MD (chair), Thomas H. Tung, MD; Ida K. Fox, MD

Christine Novak: Professional Affiliations & Related Activities:
American Society for Peripheral Nerve, Chair, 2014 Annual Meeting
American Association for Hand Surgery, Co-Chair, Annual Meeting, (2014)


Christine Novak: Associate Editor for Journal of Hand Surgery, HAND and Physiotherapy Canada

Anne O’Neill: Invited Speaker: Canadian Breast Symposium in Toronto in June 2013


John Semple: Received the “Cause Leadership Award” from the Canadian Breast Cancer Foundation (Ontario Chapter) at the Annual CBCF Awards Event held at the Fairmont Royal York Hotel, April 6th 2014. Dr Semple was honoured for his leadership in Breast Reconstruction in breast cancer patients and for his outstanding clinical accomplishments and research in this area. The award was presented by Beverly Thompson from CTV and Chisty Teasdale, VP on the Board of Directors for CBCF.

John Semple: Lymphatic Course - LMP412, Dr. Miles Johnston, University of Toronto - Medical Science Building, Toronto, Ontario, Nov 21, 2013. 1 hour lecture on the clinical aspects of lymphedema.


**John Semple:** Invited Speaker: Canadian Breast Cancer Foundation Ontario Region and Central Office - Staff Lunch and Learn, Toronto, Ontario, Nov 25, 2013. Clinical breast reconstruction, lymphedema, and innovative models of ambulatory patient care.


**John Semple:** 5th International Lymphoedema Framework Conference, Glasgow, Scotland, Jun 5, 2014. 5th International Lymphoedema Framework Conference.

**John Semple:** Invited Speaker: Virtual Health Symposium - Women’s College Hospital Institute for Health Systems Solutions and Virtual Care (WHSV) & PwC, Toronto, Ontario, Jun 17, 2014. Clinical Integration of Virtual Care: Dr. Edward Brown & Dr. John Semple.

**Herb von Schroeder:** American Association for Hand Surgery Hand Review Course

**Herb von Schroeder, MD:** Salvage Procedures for the Arthritic Wrist 2014.

**Kyle Wanzel:** Division of Plastic and Reconstructive Surgery Chair’s Award for “going above and beyond” 2014 This year’s award was given to Dr. Kyle Wanzel who works tirelessly to organize the resident seminar series and also functions as the Associate Program Director.

**Karen Wong:** Developing the CLEFT-Q: a 90-minute panel session at the American Cleft Palate-Craniofacial Association annual meeting in Indianapolis, USA (Dr. Karen Wong, Dr. Christopher Forrest, Dr. Anne Klassen, Dr. Andrea Pusic, Dr. Sophie Ricketts)

**Toni Zhong:** Appointed by Cancer Care Ontario as the Provincial Clinical Lead to establish Standardized Provincial Post mastectomy Breast Reconstruction (PMBR) Clinical Guidelines.

**Toni Zhong:** Nominated for the Gerald Kirsh Humanitarian Award, Princess Margaret Cancer Centre, University Health Network.

**Toni Zhong:** Selected by the Membership Committee as a Mentor for the Plastic Surgery Research Council (PSRC) Mentorship Program 2014 – 15

**Toni Zhong:** Presented at the Breast Reconstruction Awareness (BRA) flagship event, “An Evening of Education and Empowerment,” at the Centre for the Arts, St. Michael’s College School on October 16, 2013. The event was hosted by the Willow Breast Cancer Support Group.


**Visiting Professors**

**Dimitri Anastakis**: Cortical Plasticity - what you need to know when training surgeons, University of Southern California, Los Angeles, California, United States. Presenter(s): Anastakis DJ. March 12, 2014.


**Ron Zuker**: Awarded Canadian Society of Plastic Surgeons Lifetime Achievement Award for 2014.


Attendees: Faculty, Housestaff, medical students, nurse educators, therapists, Sept 5, 2013.

**Dimitri Anastakis**: Visiting Professor. Restoring Form and Function: The impact of our work on the central nervous system, Southern Illinois University, Springfield, Illinois, United States. Presenter(s): Anastakis DJ. Overview of cortical plasticity research - the impact of peripheral nerve injury, reconstruction and rehabilitation on the human CNS. (Trainee Presentation) Sept 3, 2013.


Christopher Forrest: Johns Hopkins University, Baltimore, MD - presented on The evolution of Treatment for Sagittal Synostosis, and Surgical treatment of hypertelorism. April 17, 2014.

Christopher Forrest: Yekatit 12 Hospital, Addis Ababa, Ethiopia -- Team from Sic Kids invited to carry out a needs assessment to manage complex surgical cleft lip and palate patients and the feasibility in establishing an Orthognathic Surgery Program. Jan 13 to 17, 2014.

Brent Graham: June 2014 Visiting Professor, British Columbia Hand Society, Squamish, BC.


Ron Zuker: Course Director. Animating the Paralyzed Face: Keys to Evaluation and Surgical Management.
Washington University School of Medicine. St. Louis, Missouri, United States. June 7 2014.


### Continuing Medical Education

**3rd Annual Breast Reconstruction Awareness Day (BRA Day)** was held Wednesday, October 16th, 2013 from 7:00-9:30 p.m. at the Centre for the Arts at St. Michael’s College School in Toronto. Breast cancer survivors, patients and medical experts gathered for this event to learn more about breast reconstructive surgery post-mastectomy. A group of five panelists, including Women’s College Hospital’s Dr. Mitchell Brown, founder of BRA Day, Dr. John Semple, WCH’s chief of surgery, and Dr. Brett Beber, each took the stage to discuss various topics surrounding breast reconstruction. The audience was also given the opportunity to listen firsthand to two breast cancer survivors who both shared their remarkable stories. The event also included a “show-and-tell” lounge, where a group of 15 courageous volunteers bared their chests to attendees in order to give them a firsthand perspective on what breast reconstruction looks and feels like.

BRA Day, which formed a formal partnership this year with Willow Breast Cancer Support Canada, is now internationally recognized in almost 30 countries and is open to the public each year.

**The 14th Annual Toronto Breast Symposium** was held on April 3rd, 2014 at the Toronto Hilton and welcomed Visiting Professors: Dr. Louis L. Strock ASPS Visiting Professor Lecturer, Harris Methodist Hospital, Fort Worth Surgery Center, and Clear Fork Surgery Center (Fort Worth, TX), Dr. William P. Adams Jr, The University of Toronto Annual Lecturer, UT Southwestern Medical Center (Dallas, TX) and Dr. Peter Lennox, The J Michael Drever Lecturer, President of the Educational Foundation of the Canadian Society of Plastic Surgeons (Vancouver, BC). This symposium was chaired by Dr. Mitch Brown and co-chaired by Dr. Brett Beber and Dr. Kyle Wanzel.

**The 44th Annual Aesthetic Plastic Surgery Symposium** was held from April 4-5, 2014. Visiting Professors included: Dr. Sherrell J. Aston (New York, NY), Dr. H. Steve Byrd (Dallas, TX), and Dr. J. Peter Rubin (Pittsburgh, PA). This symposium was chaired by Dr. Jamil Ahmad and co-chaired by Dr. Frank Lista and Dr. Tom Bell.

**1st Annual Pediatric Wound Care Symposium** was held on November 1, 2013 at the Peter Gilgan Centre for Learning and Research. Course directors: Dr. Joel Fish and Dr. Irene Lara-Corrales.

**1st Annual Canadian Burn Symposium** was held May 26-27, 2014 at the Westin Harbour Castle, Toronto, ON. Focusing on educating plastic and trauma surgeons, as well as allied health and dermatologists who specialize in burn wounds. Highlights of the program include updates in all aspects of clinical care and education research.

### KLS Martin Craniofacial Lectureship

Thanks to the generosity of KLS Martin, former Toronto alumnus Dr. Joe Gruss (University of Washington, Seattle) gave the 2014 KLS Martin Craniofacial Lecture in pediatric craniofacial surgery in May 2014.

### 2014 Hoyle Campbell Visiting Professor

The Division of Plastic and Reconstructive Surgery shone brightly at the 30th Annual Hoyle Campbell Annual Research Day on Friday February 21, 2014 at the Peter Gilgan Centre for Research and Learning. We were exceptionally fortunate to have Dr. Paul Cederna, who is the Chief of the Section of Plastic Surgery, Professor in the Department of Surgery, and a Professor in the Department of Biomedical Engineering at the University of Michigan, Ann Arbor this year’s Tau Omicron Visiting Professor. His inspiring lecture on neuromuscular interfaces in prosthetic rehabilitation of amputees was a terrific highlight of the day demonstrating the powers of collaboration, team-work, innovative thinking and persistence. I was immensely proud of the great job our residents did in making Paul feel comfortable and welcomed.

### 12th Annual Ralph T. Manktelow Hand and Microsurgery Lectureship

This year’s Ralph T. Manktelow Hand Surgery Day was held on Friday October 18, 2013. This year’s Visiting Professor was Dr. Brian D. Adams, Professor, Department of Orthopedics & Rehabilitation, University of Iowa, Iowa City, Iowa Dr. Adam’s keynote address was entitled, “Optimizing Wrist and DRUJ Arthroplasty”

### 10th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

The 10th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery was held on June 4, 2014 at the Peter Gilgan Centre for Research and Learning. The Vale Visiting Professor was Mr. Jonathan Britto. Consultant Plastic and Craniofacial Surgeon at Great Ormond Street Hospital for Children in London. His lecture was entitled “Paediatric orbito-palpebral surgery: An evidence based philosophy”.

### Dupuytren's Day: Held on Tuesday, January 28, 2014 at North 44. This event was held by Drs Paul Binhammer and Steve McCabe. The topic for discussion was “The Latest Advancement in Treating Dupuytren’s Contracture”

### Lifetime Achievement Award

**Ron Zuker**: CSPS Lifetime Achievement Award was given to Dr. Ron Zuker of Toronto, Ontario. The Award presentation took place during the President’s Banquet at the CSPS Annual Meeting, on the evening of Friday, June 27th, 2014 at the Westin Hotel in Montréal. This award honors members of the CSPS who have made outstanding contributions to the profession and to the Society. Dr. Zuker is one of the original pioneers of microsurgery. He is a founding member of the American Society of Reconstructive Microsurgery and the Group
for Advancement of Microsurgery (GAM - Canada). He has had important leadership positions in our specialty’s important societies including the American Academy of Pediatrics, the American Association of Plastic Surgeons, the American Association of Pediatric Plastic Surgeons, the American Burn Association, the American Cleft-Craniofacial Association, the American Society for Reconstructive Microsurgery, the American Society of Peripheral Nerve, the American Society of Plastic Surgeons, the Congress of the International Microsurgery Society, the Canadian Society of Plastic Surgeons amongst many others, culminating with the Presidency of the International Society of Plastic Reconstructive and Aesthetic Surgery Congress in Vancouver 2011. His CV is rich with accolades, honors, peer-review papers and scientific presentations. He has been teaching residents and medical students in Plastic Surgery since 1978. He has taught fellows from all points of the globe. He has given lectures on 4 of the 5 major continents. He has well over 100 scientific peer review publications and book chapters. One of his most significant contributions has been his textbook entitled Principles and Practice of Pediatric Plastic Surgery (co-edited with Bruce Bauer and Mike Bentz) which has become the go-to book for Pediatric Plastic and Reconstructive Surgery and is heading for a 3rd edition any day now! He has acted as a great mentor for the latest generation of reconstructive microsurgeons and is generous in sharing his surgical secrets. His name is synonymous with excellence and innovation. In the arena of innovative reconstructive microsurgery, Ron has few equals. Dr. Ron Zuker has made significant innovations in the unique areas of conjoined twins, composite vascularized allotransplantation, free functioning muscle transfer, solid organ transplantation and global outreach. In the field of Plastic & Reconstructive Surgery, Ron is an icon and highly deserving of the Canadian Society Lifetime Achievement Award.

Robert Knowlton: This year celebrated the career of Dr. Robert Knowlton who served as the chief at St. Joseph’s Health Science Centre for more than 10 years and sat on the residency program committee for over 15 years, contributing to the advancement of the specialty and the division spanning a remarkable 6 decades.

Graduation Gala Event
One of the highlights for the past year was the Division Graduation Gala Event. This was held at the University Club of Toronto on Thursday, June 19, 2014. A faculty roast was given by the residents and a competition was held to determine the “best of the best” and special awards presentations were made in recognition of all the faculty who give tirelessly of themselves in the pursuit of research and education in this division.
Royal College Fellowships

Heather Baltzer successfully passed her RCPSC fellowship examination.

Olivia Ho successfully passed her RCPSC fellowship examination.

Matthew McRae successfully passed his RCPSC fellowship examination.

Mathew Plant successfully passed his RCPSC fellowship examination.

Division of Plastic & Reconstructive Surgery

I am also very pleased to announce that the new division website has gone live as of 12:01 am Friday 13th, June 2014. I hope that you will take the opportunity to explore and see the new face of our division:

http://www.uoftplasticsurgery.ca/clinic/

General Surgery Assembly 2014
Division of Thoracic Surgery

Tom Waddell, Chair

2013-14 was an outstanding year for the Division of Thoracic Surgery at the University of Toronto. The American Association for Thoracic Surgery held its Annual meeting in Toronto this spring and it was a wonderful opportunity to connect with alumni and friends in a lovely reception at the Gardiner Museum. Our annual retreat focused on interprofessional and interspecialty collaboration, for example with Interventional Pulmonology and Radiation Oncology. It highlighted the tremendous pleasures of our complex and multi-faceted specialty. This year was notable for the development of partnership with the Massachusetts General Hospital, who sent outstanding residents to us for 4 month rotations as part of their US residency training requirements. An additional resident joined us from the University of Colorado.

Recruitment

There were no recruits to the Division of Thoracic Surgery this year.

Promotions

There were no promotions in the Division of Thoracic Surgery in 2013/2014.

Research Grants

Drs. Cypel, Liu, and Keshavjee received a 5 year CIHR grant entitled “Advanced therapeutic strategies for ex vivo repair of lungs for transplantation”. Dr. Cypel also received funding from the Canadian Cancer Society Research Institute for an Innovation Grant entitled “Development of isolated lung perfusion for the treatment of cancer metastases to the lungs”. Dr. Mingyao Liu received CIHR funding for his grant “Signal cross talk in lung injury and repair”. Dr. Waddell received funding from the Roche Organ Transplant Research Foundation for “Lung Progenitor Cell Profiling in the Development of Bronchiolitis Obliterans Syndrome”. He also received funding from the Centre for Commercialization of Regenerative Medicine (CCRM) for “Expansion of patient-specific Cystic Fibrosis epithelial cells for drug screening through transient partial reprogramming”. To help commercialize this technology, Dr. Waddell also received funding to support the patent application for “Methods and Compositions for Producing Induced Airway Tissue Progenitor Cells.” from the Stem Cell Network. Dr. Waddell also received funding for a Catalyst Grant from the Transplantation and Regenerative Medicine Centre, Hospital for Sick Children, entitled “Targeting Rejection: Reversal and Prevention of Allograft fibrosis by direct reprogramming of Activated Myofibroblasts.”

Resident/Fellows Honours/Awards/ Positions Held

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. Bryan Meyers from Washington University in St. Louis. Dr. Tiago Machuca won the Award for Best Clinical Research paper and Dr. Jonathan Yeung won the Best Basic Science Research Award.

Faculty Honours/Awards/Positions Held

Dr. Marcelo Cypel was awarded a Premier’s Early Research Award. Notably, Dr. Cypel led the development of a hands-on course in ECLS technology at the Annual Meeting of the American Association for Thoracic Surgery. Dr. Tom Waddell was appointed to the Council of the newly inaugurated Ontario Institute of Regenerative Medicine. Dr. Yasufuku again led the annual EBUS Training Course who also created a Robotic Thoracic surgery hands on course for the AATS and the development of the first pan-Canadian Boot Camp in advanced Thoracic Surgery technology open to any new resident in Thoracic Surgery in Canada. These three training course all occurred in the space of 3 months. Dr. Yasufuku also was recognized at the American Association of Bronchology and Interventional Pulmonology, Fall Scientific Symposium, 2013 in Chicago where he received the Geoffrey McLennan Memorial Award, and had a paper receive the “Most Intriguing” Award. Dr. Keshavjee was appointed to the Board of Directors of the American Association for Thoracic Surgery Leadership Academy

Within our own Division, Teaching Awards were awarded to Dr Gail Darling (Gail E. Darling Award for Excellence in Undergraduate Teaching) and Tom Waddell (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching). Dr. Pedro Reck dos Santos won the F. Griffith Pearson Award for Best Resident Fellow Teacher.

Visiting Professors

Visiting Professors for 2013-14 academic year were: Benjamin Kozower (University of Virginia, Charlottesville, Virginia) and Dr Gunda Leschber (Berlin Chest Hospital, Berlin, Germany). Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2014 and included the following Visiting Faculty: Paul De Leyn (University Hospital, Leuven, Belgium), Thierry Le Chevalier (Institute Gustav Roussy, Paris, France), Steve Cassivi (Mayo Clinic, Rochester, Minnesota), and Michael Humer (Kelowna General Hospital, Kelown, BC).
**Division Firsts**

Dr. Marc de Perrot, along with radiation oncology colleague, Dr. John Cho, have pioneered the use of neoadjuvant radiation in mesothelioma prior to extrapleural pneumonectomy.

**Leadership Changes/Progressions**

Dr. Maurice Blitz (St. Joseph’s Healthcare Centre, Toronto) assumed Leadership of the Foundations Course for the Department of Surgery. Dr. Najib Safieddine assumed responsibility as the Division Lead for Quality and Best Practice.

**Royal College Fellowships**

Our Division did not have any graduating residents this year.

Our clinical programs and results continue to be amongst the best in the world. As we did not select a resident in 2011, we will have three outstanding residents graduating next year. The caliber of our fellows recruited from around the world continues to increase. Additional American residents will be coming in 2014-15. Our focus for the 2014 Retreat will be on building the broader University of Toronto Division of Thoracic Surgery as a platform for integrated Thoracic Surgical Care for our Region. It is my great pleasure to serve this Division as Chair and I look forward to new and exciting horizons.
The Division Of Urology has had a productive academic year. We currently span 28 geographic full time faculty as well as 3 full-time PhD scientists, spanned over 6 fully affiliated University-based hospitals. We train over 42 students including 24 residents and 18 fellows.

**Recruitment**

Drs Dean Elterman (TWH) and Michael Ordon (SMH) joined our faculty in this academic year

**Academic Promotion**

Dr. Walid Farhat was promoted to Full Professor  
Dr. Robert Stewart was promoted to Associate Professor  
Dr. Armando Lorenzo was promoted to Associate Professor

**Research Grants:**

The Division of Urology had a solid 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 4 million dollars:

- Michael Jewett  
- Neil Fleshner  
- Robert Hamilton  
- Girish Kulkarni  
- Andrew Matthew  
- Bharti Bapat  
- Darius Bagli  
- Keith Jarvi

**Resident/Fellow Awards**

Dr Bimal Bhindi won an award from the Health Policy Management and Evaluation (HPME) Department as the most promising researcher.  
Dr Justin Lee (PGY5) was voted best undergraduate educator in the Department of Surgery  
Dr Laurence Klotz won the Lister Prize at Gallie Day  
Dr Thomas Hermanns won Best Poster at the European Association of Urology

**Faculty Awards:**

Dr Laurence Klotz continues as Chair of the World Uro-Oncology Federation  
Dr Fleshner continues as Chair of the Canadian Uro-Oncology group  
Faculty teaching awards went to Drs Lee, Stewart, Kodama, Kulkarni, Klotz and Zlotta.  
Dr Trachtenberg was awarded an Honorary Doctorate from University of Guelph

**Visiting Professors:**

Dr Dean Assimos was our Menkes lecturer  
Dr John Denstedt was our Robson Professor  
Dr Mark Litwin was our Colapinto Lecturer

Urology Update visitors included: Drs Colin Dinney, Christopher Evans, Joel Nelson, Howard Goldman, Christopher Payne, Chandhu Sundarum and Alexis Te

**Division Firsts**

Dr Michael Ordon performed the first Urology-led percutaneous renal tumor ablation  
Dr Dean Elterman performed the first University of Toronto green-light laser for benign prostatic hyperplasia  
Drs Elterman, Fleshner, Grober, Herschorn, and Jarvi conveyed the first Men’s Health Summit in January 2014.

**Leadership Changes/Progressions:**

Dr Pippe-Salle has taken an important position in pediatric urology in Qatar after a stellar career at the University of Toronto.

**Highlights**

**SickKids**

Dr Martin Koyle continued his clinical research in pediatric urology. He had numerous visits as visiting speaker/professor throughout the globe. He has taken over as site chief at the Hospital For Sick Children.  
Dr. Joao Pippi-Salle He was an invited speaker, surgeon, and visiting professor at many locations around the world. He has recently departed to Qatar on a full time basis after a stellar career at the University of Toronto  
Dr. Darius Bagli continued his basic research in bladder diseases with projects funded by the CIHR, PSI, Kidney Foundation, AUA Foundation, and the Society for Pediatric Urology. He is also supervising research fellowships with funding from the Society for Pediatric Urology and the AUA Foundation. He also served as Deputy Chief of Surgery at Hospital for Sick Children and staff coordinator of Urology Resident Research.  
Dr. Walid Farhat continued his work in tissue engineering with projects funded by The Hospital for Sick Children's Foundation and the Dean’s Fund. He participated in projects funded by the Ontario Research Fund and Canadian Foundation for and the Center for Computer-Assisted Intervention and Innovation. He was promoted to full professor  
He organized and directed the 7th Annual North American Pediatric Fellows Laparoscopy Course.
He was an invited speaker both within and outside of North America.

**Dr. Armando Lorenzo** continued his work in Clinical Epidemiology and minimally invasive pediatric surgery. He has also been critical in coordinating resident surgical skills sessions.

He continued his research work in projects funded by the Hospital for Sick Children Inaugural Innovation Fund, PSI, and the Medical Council of Canada.

He was an invited speaker in Europe and North America and was promoted to Associate Professor.

**MSH**

**Dr. Ethan Grober** continued his work on male infertility at Mount Sinai and Women’s College.

His research includes his projects in infertility and education with grants from PSI Foundation, Royal College of Physicians and Surgeons of Canada, MARS Innovation, CIHR, Canadian Uro-Oncology Group, and the Association for Surgical Association.

He was an invited speaker in the U.S. and Canada and will assume role as coordinator for the Urology School lecture series.

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

He continued work in his work and research in Infertility with projects funded by the NIH, Ontario Institute for Cancer Research, CIHR, Canadian Uro-Oncology Group, MaRS Innovation, Canadian Cancer Society Research Institute, Institut Merieux, Canadian Uro-oncology Group, PSI, and with non-peer review grants from GSK and Pierre Fabre Medicaments.

**Dr. Kirk Lo** continued his basic research in Infertility with a multi-year grant funded by the National Institutes of Health and in projects funded by CIHR, MaRS Innovation, Canadian Cancer Society Research Institute, Canadian Uro-oncology Group, and PSI.

He organized the resident and fellow presentations for the Annual Robson Research Day.

He was an invited speaker in the U.S. and Canada.

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

He was invited speaker and/or Visiting Professor to Europe, Asia and South America. He continued his research with funding from Ontario Institute for Cancer Research, CIHR, Canadian Cancer Society Research Institute, and the Canadian Uro-oncology Group. Dr. Zlotta has had a banner year in grant capture with his collaborations with Drs. Bapat and Ranna.

**Dr Bharati Bapat** continued her work in epigenetics and cancer biology in bladder and prostate cancer. She has procured over 2 million in peer-reviewed funding this year and has lectured throughout the globe.

**Sunnybrook**

**Dr. Lesley Carr** continued her work as an investigator in an industry grant for the use of muscle stem cells in stress urinary incontinence as well as research in overactive bladder and interstitial cystitis with projects funded by Allergan, Astellas, and Pfizer. Dr. Carr is in charge of Journal Seminars for Urology residents.

**Dr. Sender Herschorn** continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction with projects funded by Allergan, Astellas, and Johnson and Johnson (Contura). He was invited speaker and lecturer throughout the globe.

He also directed the 20th annual U of T Urology Update.

**Dr. Laurence Klotz** continued his research in Uro-oncology. He continued as Chair of the CURC and the World Uro-Oncology Federation, (WUOF), and the International Urologic Research Society.

He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer with funding from NCIC, Prostate Cancer Canada, CIHR and Ferring. He was guest speaker and visiting professor in Asia, UK, Europe, South and North America. Dr Klotz won the coveted Lister prize and was awarded the SUO Medal of Merit.

**Dr. Ron Kodama**, site Chief at Sunnybrook, organized the 10th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2013.

He won the Faculty Postgraduate Teaching Award in 2013.

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

He was an invited speaker in many places within and outside North America.

**Dr. Vasundara Venkateswaran**. She continued her basic research in prostate cancer with funding from CIHR, Prostate Cancer Canada and Ferring.

Dr Venkateswaran continues her major role at the Institute of Medical Sciences as Graduate Coordinator.

**UHN - TGH and PMH**

**Dr. Neil Fleshner** continued as site chief at the UHN.

He continued his clinical and basic research in prostate cancer with many major peer-reviewed grants from CIHR, OICR, CPCRF, Canadian Cancer Society Research institute, Prostate Cancer Canada Research Foundation, Prostate Cancer Research Foundation, NIH, and GSK.

He was invited speaker at meetings in Canada, U.S, Israel, Asia and Europe.

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

**Dr. Michael Jewett** continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. The Funding is from CIHR, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC and Pfizer.
He continued as the Wyeth/CIHR Clinical Research Chair in Oncology.

He was an invited speaker and/or visiting professor in North America, Europe, Middle East and Asia.

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

Dr. John Trachtenberg continued his active research into novel therapies for prostate cancer with grants from CIHR, PMH Foundation, Prostate Cancer Canada and NCIC. He continues his work on focal therapy in Prostate cancer.

Dr. Tony Finelli continued his funded research projects in renal cancer and in men with negative biopsies for prostate cancer. Funding is from CIHR, Canadian Cancer Society research Institute and Pfizer.

He was invited speaker in Europe, US, and Canada.

He also served as chair of the 5th Annual Uro-Oncology Dialogue meeting in Niagara on The Lake.

Dr. Andrew Matthew, clinical psychologist, continued his work in outcomes after prostate cancer therapy. Dr Matthew has had a banner year with over 1.5 million in peer-reviewed funding in prostate cancer survivorship. He was an invited speaker in the Canada.

Dr Girish Kulkarni continued his excellent research as a junior investigator/surgeon scientist securing peer-reviewed grants from Canadian Urologic Association, CIHR and a salary support award from prostate Cancer Canada. He continues his epidemiological research in bladder and prostate cancer. He was an invited speaker throughout Canada.

Dr Robert Hamilton received numerous peer reviewed grants from CCSRI, CUA and internal PMH funds. He continues his work on statins, SNP’s and prostate cancer. He was an invited speaker throughout Canada.

UHN - TWH

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

He was an invited speaker in Asia, Middle East, Europe and North America.

Dr. Sidney Radomski continued his work in incontinence, overactive bladder and erectile dysfunction.

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

Dr Dean Elterman commenced as a 3rd urologist at TWH as a surgeon-investigator. His interests include: men’s health, incontinence and reconstructive surgery.

St. Michael’s Hospital

Dr. Kenneth Pace continued as site chief as St Michaels Hospital. He continued his work in clinical epidemiology, stone disease, and Minimally Invasive Surgery.

He continued as the Fellowship Coordinator for the Division of Urology.

He continued in the American Urological Association Leadership Program.

Dr. John Honey continued his work as a minimally invasive Urologist at SMH

He continued his clinical research studies in lithotripsy. He was course director at a Hands-on course at the American Urological Association (AUA) Meeting in Atlanta. He was guest speaker in the U.S. and Canada.

Dr. Robert Stewart continued as Urology Residency Program Director and director of undergraduate surgery education at SMH. He continued as the principal urologist in the kidney transplantation program.

He won the Faculty Postgraduate Teaching Award (Surgical).

Dr Jason Lee continued his work in in education-based research and minimally invasive surgery .Dr Lee will assume a major role in core curriculum development for undergraduate education.

Dr Michael Ordon commenced his career as a surgeon-investigator. His interests include large database outcome analyses as well as percutaneous renal tumor ablation.

Academic Events & Awards

The Annual Charles J. Robson Research Day was held on April 10th. The Visiting Professor was Dr. John Denstedt, Professor of Surgery University of Western Ontario.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Yonah Krakowsky

The PGY-5s Drs. Justin Lee, Wilfred Tam and Nicole Golda successfully completed their Royal College Examinations.

Conclusion

The Division of Urology continues as one of the most pre-eminent urology programs in the world. We are proud of the accomplishments of all divisional members.
As I complete my term as University Division Chair, and reflect on changes in Vascular Surgery since 2003, I would like to highlight the following developments. First, there has been significant improvement in the organization for delivery of Vascular Surgery elective and emergency care with increased provincial funding in the Greater Toronto Area (GTA). The increased costs associated with the transition to Endovascular Aneurysm Repair (EVAR) partially sparked this change. Therapy for peripheral arterial disease (PAD) has also moved towards a minimally invasive approach with better techniques, technologies and clinical outcomes. University teaching and affiliated hospitals previously reluctant to hire new staff, have renewed their workforce with excellent recruits. Research productivity has improved and the new faculty members of the Division are well positioned to achieve significant academic success. Teaching scores for the Vascular Division remain among the top scores for the Department. At the Royal College, changes to Vascular training have also been dramatic. Vascular Surgery has shifted from a subspecialty to a specialty with a direct application process, five plus zero residency from the previous standard of a five (usually General Surgery training) plus two (Vascular Surgery training). This popular new training paradigm has reinvigorated the Vascular Surgery residency program in Toronto with similar effects across Canada. Our initial cohort of trainees from 2012, Drs. Roy and Hussain, have both enrolled in the surgical scientist program for the coming year. Surgical skills training began ten years ago as five afternoon surgical skills sessions. Last July 2013, it was transformed by Dr. George Oreopoulos into a two-week boot camp of vascular-specific skills sessions and seminars to prepare our residents with the essential skills they require to begin residency. We recently held the Third Annual Vascular Surgery Research Day, which includes the KW Johnston Lectureship. Fund raising for this important Divisional activity continues to accrue. The Division Chair no longer serves as the Program Director. Dr. Oreopoulos manages both the Program Director duties and our fellowship program, which has become increasingly competitive. In summary, the Division of Vascular Surgery has made important gains across the clinical, educational and research domains; there is a strong foundation in place to move forward, especially in the current priority areas of research and innovation.

Recruitment

During the past year Dr. Mohammed Al-Omran became the Division Head at St Michael’s Hospital and a surgical investigator. Also three new recruits have been hired and will be starting in 2014. First, Dr. Thomas L. Forbes will join the UHN Division and become the new University Division Chair. Dr John Byrne has been hired as a surgical scientist at UHN and will be a Black Family Fellow as he transitions to a staff person in 2014. Dr Elisa Greco (a U of T Vascular Graduate) will join the Division at St Michael’s Hospital in October 2014.

Research Grants

Drs Dueck and Wright were awarded a CIHR grant for a project on MR guided peripheral revascularization for $562k. Dr Roche-Nagle was the recipient of the 2013 CSVs Gore Research Award for a project titled “The therapeutic and prognostic value of perfusion angiography with indocyanine green fluorescence in patients with critical ischemia.” Two student supervised by Dr. Roche-Nagle were awarded 2013 CSVs National Student Research Awards: Oliver Alying “Peripheral nerve blocks after lower limb amputations” and Nicholas Bowers. “Using a multimedia presentation to improve patient understanding and satisfaction with informed consent for minimally invasive vascular procedures: a prospective randomized trial”

Dr George Oreopoulos was the winner of the Surgical Skills Centre Distinguished Educator Award at Gallie Day 2014. Dr. Dueck was awarded a Sunnybrook Clerkship award for excellence in teaching.

Visiting Professors

Dr. Philip Goodney from Dartmouth, was the KW Johnston Lecturer on June 22nd 2014 at Research day, delivering two outstanding talks on databases and clinical research. Dr. Michael Farah from the Peter Munk Cardiac Center lectured on using existing databases from clinical trials to answer questions different from those previously proposed. Winner of the Best presentations were Dr. Mohammad Hussain for his project “Long term effects of an educational intervention for cardiovascular risk reduction in peripheral arterial disease” and Dr. Sydney Wong for his project “Building a personal vascular database”.

Division Firsts

In July 2013 Dr. George Oreopoulos organized the first Vascular Surgical Boot camp for incoming trainees. In September 2013 Dr Jonathan Cardella organized the initial Canadian Endovascular Skills Course (CESS). Vascular Surgical trainees from all across Canada came to Toronto for two days of didactic sessions and hands on endovascular skills training.
Leadership Changes/Progressions

Dr. Mohammed Al-Omran became the Head of the Vascular Division at St Michael’s Hospital. Dr. Thomas Forbes will succeed Dr. Lindsay as the University Division Chair in September 2014. Dr. Vern Campbell will retire from St Michael’s Hospital in December 2014 after a long career in Vascular Surgery that began at Toronto East General Hospital.

Royal College Fellowships

Dr. Varun Kapila completed his Royal College training in June 2013 and successfully completed certification in the fall of 2013.

I am delighted with the progress the Division has made over the last eleven years. It is the contributions of many that have allowed the Division to succeed, transition to a new training paradigm, improve teaching scores, recruit successfully and position ourselves to achieve significant academic contributions in the years to come.
Heads of Divisions:

Dr. G. Van Arsdell        Cardiovascular Surgery
Dr. A. Pierro             General and Thoracic Surgery
Dr. J. Drake              Neurosurgery
Dr. A. Howard (interim)   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 completed his second-term review as Surgeon-in-Chief and Chief of Perioperative Services and the search for his successor has begun. Drs. James Drake, Division of Neurosurgery, and Christopher Forrest, Division of Plastic and Reconstructive Surgery both successfully completed their second-term reviews as Division Head and were re-appointed to a third-term. The Division Head of Orthopaedic Surgery search is near completion. Special thanks to Dr. Andrew Howard for his service as interim Division Head.

Our business case received support from the Ministry of Health and Long-Term Care (MOHLTC) to perform 457 additional cases to address our wait-lists. The percentage of children at SickKids who exceeded our nationally accepted access targets peaked at more than 45% in 2007 and is now approximately 11%.

We completed the three-phase major renovation in the OR with total fundraising goal of $8.8M; two state-of-the-art ORs, an additional OR to further facilitate minimally invasive surgery, Pre-Anesthesia Clinic, “Playroom” and the PACU. We are embarking on fundraising for staged renovation of the remaining ORs.

Until this past month, we have had no Alternate Funding Plan approved new positions since 2007. We have been meeting with the MOHLTC since November to develop an accountability framework and a human health resource plan for new positions.

In conjunction with the Rotman School of Business and SickKids, we have developed and just concluded our second, five-module, ten-day leadership development course. This joint learning experience included 45 physicians, managers and directors from Perioperative Services and Paediatrics. Our second course was enhanced by tying the learning to a specific SickKids project. We are planning the third course for 2014-15.

In preparation for succession to the new Chief of Surgery and Perioperative Services in six months, we have developed a framework for succession planning based on key competencies that will allow development of internal candidates and inform the search process.

New Staff:

Dr. Karen Wong joined the Division of Plastic and Reconstructive Surgery as a surgeon-scientist in August 19, 2013. Her area of clinical expertise lies in cleft and microsurgery.

Departures:

Dr. Pippi Salle’s departed in April 2014 to pioneer a formal paediatric urology clinical and training program at Sidra Hospital in Qatar.

Appointments and Promotions:

Promotions include Dr. Walid Farhat as Director of the Fellowship Training Program at SickKids, and Professor of Surgery, University of Toronto and Dr. Armando Lorenzo as Associate Professor at the University of Toronto.

Appointments include Dr. Peter Dirks as Chair Holder, The Hospital for Sick Children, the Garron Family Chair in Childhood Cancer Research and Dr. Armando Lorenzo as Director of Nephrourology at SickKids.
**Education:**
The Department of Surgery continues to have an active education program training 47 clinical fellows and 107 residents originating from 24 countries worldwide.

**Research:**
Of 41 surgeons, 25 have funded research programs. The department is engaged in a wide variety of clinical and basic research supervising 23 research fellows, 31 Masters and 10 PhD students.

**Division of Cardiovascular Surgery**
The Division of Cardiovascular Surgery at SickKids has focused on team clinical performance, for the past several years, in a forum labeled Performance Rounds. The concept has been driven by the idea that best patient outcomes are achieved by making optimal decisions and interventions at each point along the care pathway. Performance Rounds is a management system that entails reviewing each patients’ clinical course, from diagnosis through hospital discharge, using a proprietary individualized patient graphic. The weekly review is performed with team members from cardiology, intensive care, anaesthesia, and allied health professionals. Through this system we are able to identify specific patient issues as well as structural areas for improvement even in the face of good patient outcome. The long term goal is to gradually enhance team learning and team performance. The concept is also a strong academic platform. Ed Hickey had a plenary session presentation at the American Association for Thoracic Surgery using the performance rounds format and the NASA flight error model. Glen Van Arsdell had 2 invited plenary session presentations: one at the Chinese Thoracic Surgery annual meeting and another at the Pan Asian Congenital Heart meeting.

Osami Honjo has continued with his epidemiologic work with 3 presentations at the American Heart Institute. Chris Caldarone holds a CIHR grant studying the mechanism of problematic pulmonary vein stenosis and John Coles holds a Heart and Stroke grant continuing to pursue his interest in signaling mechanisms and potential interveners for cardiomyopathy. The Division is making progress in its dual mission of sustainable high clinical and academic performance.

**Division of General and Thoracic Surgery:**
In June 2013 Dr. Agostino Pierro was re-appointed as Chairman of the European Pediatric Surgery Association (EUPSA) Network dedicated to the establishment and coordination of multicentre research.

Dr. Georges Azzie was appointed an honorary Professor in the Department of Surgery at the University of Cape Town, South Africa. 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.

Dr. Chiu continues to be a member of the Canadian Association of Paediatric Surgeons (CAPS) Research and Program Committees. In 2014, she will take over as the CAPS Program Committee Chair. She continues as a member of the CAPSNet Steering Committee and a member of the EPIQ review on CDH Care. Dr. Chiu joined the American Academy of Pediatrics Section on Surgery Delivery of Surgical Care Committee as a member of the Transitional Care and Resource Optimization subcommittees.

Dr. Annie Fecteau continues to have a busy clinical practice and is developing an innovative approach of compression for giant omphalocoele.

Dr. J. Ted Gerstle became the Director of the Surgical Oncology Program at Sickkids in 2013. He is also involved in a number of important initiatives with SickKids International and the Global Child Health Centre.

Dr. Sharifa Himidan is 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. She is a member of the Canadian Pediatric Surgery Network (CAPSNet) Steering Committee and RCPC Specialty Exam Board in pediatric surgery.

Dr. Jack Langer continues to be the President of the Canadian Association of Paediatric Surgeons (CAPS). From January to June 2014 Dr. Langer took a sabbatical at the University of California, San Francisco, which was partially funded by a Detweiler Fellowship from the Royal College of Physicians and Surgeons of Canada. During his sabbatical he studied new techniques in fetal surgery and worked with the Pediatric Device Consortium based at UCSF. Dr. Langer was named one of the top 30 doctors in Toronto by Toronto Life magazine.

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. Dr. Wales won five awards this past year with the latest being the Best Published Clinical Research Article in May 2013.

**DIVISION OF NEUROSURGERY**
This year has been another successful year. The Division received numerous funding awards. One award totaled $14,500,000 lead by Dr. Michael Taylor as Co-PI entitled “Immunogenomics to Create New Therapies for High Risk Childhood Cancers”. There have been 60 new publications this year alone and our Staff have been invited and presented at over 38 venues and associations around the globe. We trained four fellows and 13 residents. The expertise and knowledge sharing is our focus and commitment.

Dr. Abhaya Kulkarni continues as Neurosurgery Residency Program Director and attracted the top pool of candidates to the University of Toronto program.
Dr. James Drake continues as Director, Image Guided Innovation and Therapeutic Intervention and mentor to members of The Canadian Pediatric Neurosurgery Study Group. He and Dr. Kulkarni continue their involvement with research and quality improvement initiatives lead by the Hydrocephalus Clinical Research Network and continuously review the care and treatment of hundreds of children affected by hydrocephalus. Dr. Drake continues to supervise a large cadre of undergraduate engineers from the University of Waterloo, and Toronto, and graduate students in the IBBME and Mechanical Engineering Department.

In December, Dr. Drake, with co-chairs Drs. Rutka and Kulkarni hosted the American Association of Neurological Surgeons – Pediatric Section which in addition to the main scientific program (Drake), included a pediatric epilepsy course (Rutka and Drake), an Advanced Practitioners course (Kulkarni), breakfast seminars (Kulkarni and Mazzola), a social program (Drake), followed by a fellowship reunion celebrating 80 years of pediatric neurosurgery at Sickkids (Drake). Meeting evaluations were extremely high and broke previous attendance records.

Dr. James Rutka was elected to the Order of Ontario in June, 2014. He was appointed President, World Academy of Neurological Surgery and continues to take on new responsibilities including Editor-in-Chief, Journal of Neurosurgery, July 2013. He continues with a full clinical workload and supervises a large basic science laboratory.

Dr. Michael Taylor supervised Dr. Steve Mack, winner of the prestigious Governor General's Gold Medal Award, created in 1873 by Lord Dufferin to encourage academic excellence across the nation. Dr. Steve Mack completed his doctoral dissertation entitled “The Genetic and Epigenetic Basis of Posterior Fossa Ependymoma” in April 2014.

Dr. Peter Dirks continues his basic research into brain tumour initiating cells, supervising a large basic science laboratory.

The 28th Bruce E. Hendrick Lectureship took place at the Hospital for Sick Children on Oct 8, 2013, with John Kestle, University of British Columbia as the Guest Lecturer.

**Division of Orthopaedic Surgery**

Dr. Andrew Howard became a member of the Institute of Medical Science. He continued as the Interim Head of the Division of Orthopaedics at the Hospital for Sick Children.

Dr. Steve Lewis received the Russell S. Hibbs Clinical Award, Scoliosis Research Society (Research Award), for the Best Clinical Presentation at the 2013 Scoliosis Research Society Annual Meeting.

Dr. Lucas Murnaghan took part in the POSNA/BIOMET Travelling Fellowship.

Dr. Unni Narayanan was awarded the 2013 Arthur Huene Memorial Award of POSNA.

Dr. John Wedge was awarded the Doctor of Laws (LLD) (Hon.), University of Saskatchewan.

This year the division hosted a father and son due as our Robert B. Salter Visiting Professors in October. Dr. Perry Schoenecker, orthopaedic surgeon, Chief of Staff at Shriners Hospital, St. Louis and Acting Chairman of the Department of Orthopaedics at the St. Louis Children's Hospital and Dr. Jonathan Schoenecker, orthopaedic surgeon, Monroe Carell Jr. Children's Hospital at Vanderbilt and Assistant Professor, Department of Orthopaedics, Pathology, Pediatrics and Pharmacology, Vanderbilt University, Nashville, TN.

We also hosted Professor Christopher Lavy, orthopaedic surgeon, Oxford, UK, as our Mercer Rang Visiting Professor in June.

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.

Members of the division presented 87 lectures and other presentations, published 66 papers and hold 23 grants.

The Division of Orthopaedics is continuing 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.

**Division of Plastic and Reconstructive Surgery**

It has been a stellar year for our division, the largest group of full-time pediatric plastic surgeons in North America.

Cho Pang PhD, Senior Scientist, was recognized for a lifetime of achievement and dedication to the Department of Surgery. Cho has been an active member of the Research Institute for 32 years and sat on the Department of Surgery Research Committee for 24 years. He has mentored dozens of surgeon-scientists during his time in our division, including three chairs and has been recognized by the American Society of Plastic Surgeons for his achievements. Cho will officially be retiring at the end of 2014 and assume Professor Emeritus status.

Dr. Greg Borschel was awarded the George Armstrong Peters Prize for 2014.

Dr. Howard Clarke, with the help from Emily Ho, hosted the Toronto Obstetrical Brachial Plexus Palsy Workshop on May 10, 2014. This event was a true interdisciplinary approach to managing issues specific to obstetrical brachial plexus palsy with neurosurgery, orthopedic surgery, plastic surgery, OT and PT participation.

Dr. Joel Fish and the entire Pediatric Burn Program team at SickKids were the first pediatric burn program in Canada to receive full accreditation by the American Burn Association.

Dr. John Phillips embarked on a unique sabbatical opportunity that he entitled “Teach the teacher”. His goal was to visit as many former fellows as possible and charge them with the mission to teach him something that they
have subsequently modified or learned after completing their fellowship in pediatric craniofacial surgery. John travelled to California, Texas, Colorado, Taiwan, Singapore and made multiple stops in Australia.

Dr. Karen Wong is the first full-time female member of our division. She is completing her PhD through McMaster University focusing on the development of a patient-reported outcome measure to assess the impact of cleft surgery on children, teens and young adults. She obtained CIHR funding and has established a six-country network to help support this initiative.

Dr. Ronald Zuker received an Honorary Fellowship of the College of Plastic Surgeons of South Africa, an Honorary Membership in the Association of Plastic Surgeons of South Africa and also the Humanitarian Award from The Smile Foundation of South Africa during a recent invited visit. He ended the trip with a visit to Johannesburg to operate. He was also awarded the 2014 Canadian Society of Plastic Surgeons Lifetime Achievement award at their 68th Annual Meeting on June 27, 2014.

The first Hugh G. Thomson Award was received by Dr. Karen Cross at last year’s Gala Graduation dinner. This award was established and funded by the SickKids’ division members and acknowledges Dr. T’s values of collegiality, collaboration and simply being a good human being.

The First Pediatric Wound Care Symposium was held on November 1, 2013 with course directors Drs. Joel Fish and Irene Lara-Corrales (Pediatrics). Over 130 health care providers from surgery, pediatrics, dermatology, nursing and wound care specialists attended this event. Over half of the attendees were community based with representation from London, Hamilton, Ottawa, Montreal and the GTA hospitals.

In a continuing relationship with Operation Smile and the facility in Guwahati, Asaam, India, Drs. Zuker, Borschel and two clinical fellows travelled in January 2014 for another site visit. Surgeons, anaesthetists, speech and language pathologists and dieticians from the Guwaharti Comprehensive Care Centre have visited SickKids to see first-hand how cleft care is delivered here. This model of an ongoing collaboration is working exceptionally well, many thanks to the personnel involved on both sides.

The 10th annual Lindsay Thomson Symposium in Pediatric Plastic Surgery was held on June 4, 2014. This year’s Vale Lecture was given by Mr. Jonathan Britto, Consultant and Pediatric Craniofacial Surgeon at Great Ormond Street Hospital in London, UK.

**Division of Urology**

The division has been very active. Dr. Armando Lorenzo completed a handbook for medical students rotating at SickKids. Dr. Bägli continued in his role as Associate Surgeon-In-Chief at SickKids and directing resident research within the University of Toronto Urology residency program. Along with Drs. Lorenzo, Salle and Koyle, he was significantly involved in the First International Consensus Symposium in Hypospadias held in Las Vegas in September, 2013. He, was Co-PI for the CIHR Planning Grant and co-organizer of this meeting. Dr. Bägli was appointed for a 3-year term to the American Urological Association’s Research Council and represented SickKids at the First Innovation Leadership Forum held in La Jolla. Dr. Martin Koyle was highly involved in the program for the European Society of Pediatric Surgery meeting in Dublin held in June, 2014. He and co-authors were united in February, 2014, to be honored at Dallas Children’s Hospital to mark the 20th anniversary of the “TIP” urethroplasty publication - the most commonly performed operation for hypospadias.

Dr. Walid Farhat successfully ran his 7th Annual Pediatric Urology Laparoscopy course for all pediatric urology fellows across North America. He and Dr. Koyle were extensively involved in the Annual Paediatrics Update, 2014 discussing “Nuts & Bolts of paediatric urology: a rational primary care approach to common problems”.

Dr. Michael Mitchell was the inaugural Robert Jeffs Visiting Professor in Paediatric Urology at SickKids and the University of Toronto.

The division attracted its top fellowship choices for both the American Board of Urology accredited and the international 2-year spots, hosted numerous observers and represented SickKids in multiple venues from around the world. They continue to be major contributors to the major paediatric urological publications and meeting abstracts.

On a personal note, this being my last annual report, it has been an extraordinary honour and privilege to lead SickKids’ Department of Surgery and Perioperative Services since January 2005. I am so grateful to have worked with so many hard-working, talented and dedicated staff over the past 10 years who have contributed to our vision of “Healthier Children. A Better World”.
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


Invited Visits

Coles J: 4th Canadian Cardiac Pathology & Imaging Course, Toronto, 11 Sep 2013. Discussant: Multi-Disciplinary case-based discussions.


Coles J: Fairchild TV, Toronto, 26 Apr 2014. Presenter: Cardiac surgery, research and technology.

Hickey E: World Congress for Pediatric Cardiology and Cardiac Surgery, Cape Town, 2013. Speaker: Chasing the 5-sigma.

Honjo O: American Heart Association, Dallas, Texas, United States, 18-19 Nov 2013. Presenter: 1/ Clinical outcomes in patients with persistent ventricularly dysfunction after Stage I palliation for hypoplastic left heart syndrome. 2/ Anatomical risk factors associated with left-sided pulmonary vein obstruction in single ventricle patients. 3/ Salvage Hybrid Palliation for Critically-ill Infants with Functionally Single Ventricle Physiology. 4/ Outcomes of mechanical circulatory support for patients with functionally single ventricle physiology at different stages of surgical palliation. 5/ Mechanical Circulatory Support by Impella Improved Failing Single Ventricle Physiology in Pigs.


Research and Investigations


Establishment of mechanically-assisted primary cavopulmonary connection physiology in infantile piglets: A proof of concept animal study. Labatt Family Heart Centre. Honjo O. ($25,000.00 CAD, 2011 - present).


Pulmonary venous obstruction in congenital heart disease. Saving Tiny Hearts Society. Caldarone CA. ($80,000.00 USD, 2012 - 2013).


Division of General Surgery

<table>
<thead>
<tr>
<th>Dr. G.R. Azzie</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. P.P.L. Chiu</td>
<td>Assistant Professor</td>
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<td>Dr. A. Fecteau</td>
<td>Associate Professor</td>
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<td>Dr. J.T. Gerstle</td>
<td>Associate Professor</td>
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<td>Dr. S. Himidan</td>
<td>Assistant Professor</td>
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<td>Dr. J.C. Langer</td>
<td>Professor</td>
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<tr>
<td>Dr. A. Pierro</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. P. Wales</td>
<td>Associate Professor</td>
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Publications


Chiu PPL. New insights into congenital diaphragmatic hernia (CDH)-a surgeon’s introduction to CDH animal models. Frontiers Pediatr. 2014 Apr 29; 2; 36.


**Invited Visits**

Chiu PPL: University of Hong Kong, Pokfulam, Hong Kong, 11 Nov 2013. Invited Speaker: Learning from Xenograft Models: The tool for cancer studies.

Fecteau A: Canadian Biliary Atresia Registry Planning Meeting, Montreal, Quebec, Canada, 16 Sep 2013. Invited Lecturer: Liver Transplantation for Biliary Atresia in Canada.

Grant D: Studies of Pediatric Liver Transplantation, Toronto, Ontario, Canada, 27 Sep 2013. Invited Speaker: Living Donor Liver Transplantation: The University of Toronto Perspective.
Grant D: Canadian Liver Transplant Network, Montreal, Quebec, Canada, 26 Oct 2013. Invited Lecturer: Living Donor Liver Transplantation: The University of Toronto Perspective.

Grant D: Addenbrooke's Hospital, Cambridge, United Kingdom, 9 Dec 2013. Visiting Professor: Living Donor Liver Transplantation: The University of Toronto Perspective.


Pierro A: University of Milan, Red Cross Children's Hospital, Cape Town and Cincinnati Children's Hospitals, Milan, Milano, Italy, 5 Apr 2014. Invited Lecturer: Gastric Pull-up: 20 years of experiences.


Wales P: Icahn School of Medicine at Mount Sinai, Guts and the City: Intestinal Failure Rehabilitation and Transplant Symposium, New York, New York, United States, 12 Apr 2014. Invited Lecturer: 1/ Multi-Disciplinary Management of Pediatric Intestinal Failure. 2/ Newer Lipid Emulsions.

Wales P: Canadian Nutrition Society, St. John’s, Newfoundland and Labrador, Canada, 6 Jun 2014. Invited Speaker: Dana Doctor, Valerie Marchand- Chair. Nutritional and Surgical Management of Paediatric Intestinal Failure.

Wales P: Stanley Mercer Visiting Professorship, Department of Surgery Research Symposium, Children’s Hospital of Eastern Ontario, Ottawa, Ontario, Canada, 18 Jun 2014. Visiting Professor: 1/ Perspective On The Use of Alternative Parenteral Lipid Emulsions in Paediatric Intestinal Failure. 2/ Multidisciplinary Intestinal Rehabilitation Teams for Paediatric Intestinal Failure.

Research and Investigations


High-Impact Strategies Toward Overweight Reduction in Youth. Canadian Institute for Health Research.


Honours Received
Gerstle JT: Chief Surgical Residents’ Award for the Best Teacher, The Hospital for Sick Children, General Surgery, Dept of Surgery, Faculty of Medicine, Canada. 2014.

Langer JC: Detweiler Traveling Fellowship, Royal College of Physicians and Surgeons of Canada, Canada. $7,000.00 CAD. Jul 2013 - Jun 2014.


Wales P: Paediatric General Surgery Fellowship Teaching Award, The Hospital for Sick Children, General Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Jun 2014.

Division of Neurosurgery

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<tr>
<th>Dr. P.B. Dirks</th>
<th>Professor</th>
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<tr>
<td>Dr. J.M. Drake</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. A. Kulkarni</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. J.T. Rutka</td>
<td>Professor</td>
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<tr>
<td>Dr. M.D. Taylor</td>
<td>Professor</td>
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Publications


Ibrahim GM, Rutka JT, Snead OC. Epilepsy surgery in childhood: no longer the treatment of last resort. CMAJ. 2014 Jun 9; pii: cmaj. 140427. (Epub ahead of print)


Invited Visits

Dirks PB: World Congress of Neurosurgery, Seoul, Korea, Republic Of, 9 Sep 2013. Invited Lecturer: 1/ The Layers of Brain Tumor Heterogeneity. 2/ Surgical Management of Brain Stem Tumors.


Dirks PB: The Stem Cell Niche, Copenhagen, Denmark, 20 May 2014. Invited Lecturer: Rare quiescent Sox2+ cells drive medulloblastoma growth and relapse.


Rutka JT: Samsung Hospital, Seoul, Korea, Republic Of, 10 Sep 2013. Invited Lecturer: The pendulum keeps on swinging.
Rutka JT: American Academy of Neurological Surgeons, Newport Beach, California, United States, 28 Sep 2013. Presenter: Re-operation for intractable epilepsy after hemispherectomy: Utility of DT1 linked to neuronavigation.


Taylor MD: New York University Medical Center, New York City, New York, United States, 29 Jul 2013. Invited Lecturer: Clinical Implications of Genomics for the Care and Classification of Children with Malignant Brain Tumors.

Taylor MD: Journal of Internal Medicine, Stockholm, Sweden, 3 Sep 2013. Invited Lecturer: Genetically bland ependymomas of infancy are driven by epigenetic mechanisms 10th Journal of Internal Medicine Key Symposium: Taming the Cancer Cell.

Taylor MD: Paediatric Nordic Neuro-Oncology Meeting, Copenhagen, Denmark, 4 Sep 2013. Invited Lecturer: 1/ Medulloblastoma Heterogeneity through space and time accounts for the differences in behaviour in the clinic. 2/ One of these things is not like the others: poor prognosis amongst epigenetically driven ependymomas.

Taylor MD: Canadian Society for Clinical Investigation Annual Meeting, Ottawa, Ontario, Canada, 18 Sep 2013. Doupe Prize Lecturer: One of these things is not like the others: poor prognosis amongst epigenetically driven ependymomas.

Taylor MD: The Second Minnesota Neuro-Oncology Symposium, Minneapolis, Minnesota, United States, 26 Sep 2013. Invited Lecturer: Intra and Intertumoral Heterogeneity Explains the Clinical Behavior of Medulloblastoma Plenary Session.


Taylor MD: University of California, San Francisco, California, United States, 12 Oct 2013. Invited Lecturer: Genetic Heterogeneity Through Space and Time Drives The Clinical Behavior of Childhood Brain Tumors Cancer Center Seminar Series.


Taylor MD: New York University, Department of Neurosurgery, New York City, New York, United States, 19 Feb 2014. Invited Lecturer: Molecular Heterogeneity Drives the Clinical Behavior of Childhood Brain Tumors.

Taylor MD: Canadian Pediatric Neurosurgery Meeting, Whistler, British Columbia, Canada, 26 Feb 2014. Invited Lecturer: 1/ Genomics of Medulloblastoma and Outcome Based on Surgical Resection. 2/ Mother Nature 1, Surgeons 0. How the natural history of molecular variants of ependymomas drives their behaviour in the clinic.


Taylor MD: Terry Fox Research Institute 5th Annual Scientific Meeting, Montreal, Quebec, Canada, 7 May 2014. Invited Lecturer: Heterogeneity through space and time drives the clinical behavior of childhood brain tumors.

Taylor MD: 2014 PBTF Scientific Conference, San Antonio, Texas, United States, 14 May 2014. Invited Lecturer: Wrong does not cease to be wrong because the majority share in it: Erroneus and harmful assumptions about pediatric brain tumors debunked through tumor genomics.

Research and Investigations


Anastomosis Tool Kit. MaRS Innovation. Drake JM, Looi T. ($85,000.00 CAD, Apr 2012 - Apr 2014).


Blockade of aberrant HGF/cMET signaling in medulloblastoma. Canadian Cancer Society Research Institute. Rutka, JT. ($432,000.00 USD, 2011 - 2014).


Development of a tool to measure school performance in children following traumatic brain injury. CIHR Fellowship. Kulkarni AV. ($275,000.00 CAD, Jan 2010 - Jan 2015).

Identification of novel small-molecules to target the most aggressive subgroup of medulloblastoma. The Garron Family Cancer Centre. Rutka JT, Faria C. ($50,000.00 CAD, 2012 - 2013).


Medulloblastoma Metastases Arise From the Cancer Stem Cell Compartment. Ontario Institute of Cancer Research Cancer Stem Cell Program. ($582,640.00 CAD, 2012 - 2016).

MRgFUS for intraventricular hemorrhage of prematurity. Garron Family Cancer Centre. Andrew J, Looi T, Drake J. ($50,000.00 CAD, 2012 - 2013).


Stratifying and Targeting Medulloblastoma Through Genomics. Genome Canada. Taylor MD. ($9,856,814.00 CAD, 2011 - 2014).

Temperature measurement in cortical bone and bone marrow during magnetic resonance guided focused ultrasound thermotherapy in a porcine model. Canadian Institutes of Health Research (CIHR). Drake JM. ($450,000.00, 2013 - 2015).

Translational targeting of Group D medulloblastoma. Pediatric Brain Tumor Foundation. Rutka JT, Taylor MD. ($1,000,000.00 USD, 2011 - 2014).

Honours Received


Rutka JT: Fellow, American Surgical Association. The American Surgical Association is the nation’s oldest and most prestigious surgical organization. 2013.


Rutka JT: Honourary Degree, PhD, Faculty of Medicine, Bahcesehir University, Istanbul, Turkey. May 2014.

Division of Orthopaedics

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<thead>
<tr>
<th>Dr. B. Alman</th>
<th>Professor</th>
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<tr>
<td>Dr. S. Hopyan</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. A. Howard</td>
<td>Associate Professor (Interim Division Head)</td>
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<tr>
<td>Dr. S. Kelley</td>
<td>Assistant Professor</td>
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<td>Dr. M.L. Murnaghan</td>
<td>Assistant Professor</td>
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<th>Dr. U. Narayanan</th>
<th>Associate Professor</th>
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<td>Dr. J.H. Wedge</td>
<td>Professor</td>
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<td>Dr. J.G. Wright</td>
<td>Professor</td>
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<tr>
<td>Dr. R. Zeller</td>
<td>Associate Professor</td>
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Publications


Kelley SP, Bradley CS, Wedge JH. El manejo quirúrgico de la displasia del desarrollo de la cadera luxada. Técnica quirúrgica, optimizando los resultados y resultados a largo plazo (The Operative Management of the Developmentally Dislocated Hip: Surgical Technique, Optimizing Outcomes and Long-Term Results).


Rothman L, Macarthur C, To T, Buliung R, Howard A. Motor Vehicle-Pedestrian Collisions and Walking


Invited Visits


Kelley S: Pediatric Orthopaedic Society of North America (POSNA), Los Angeles, California, United States, May 2014. Invited Lecturer: Indications and Technique of Anterior Open Reduction in DDH.

Kelley S: Smith and Nephew, Mississauga, Ontario, Canada, Jun 2014. Invited Lecturer: Growing Children: Limb Lengthening and Reconstruction with the TSF.


Murnaghan ML: Israel Pediatric Orthopaedic Society, Tel-Aviv, Israel, 24-25 Apr 2014. Invited Speaker: 1/ Osteochondritis Dissecans of the Capitellum in Adolescent Athletes: Pathogenesis, Evaluation and Treatment. 2/ The Role of Hip Arthroscopy in the Pediatric Patient. 3/ Knee OCD - Epidemiology,


Narayanan UG: Birmingham, United Kingdom, 7 Nov 2013. Invited Lecturer: The Learning Curve for ESIN In Femoral Fractures And Avoidance Of Complications.

Narayanan UG: St. Justine Paediatric Orthopaedic Review Course, Montreal, Quebec, Canada, 6 Mar 2014. Speaker: 1/ The Hip in the Spastic Child: Orthopaedic Perspective, 2/ Angular Deformities of the Lower Extremities: To Treat or not To Treat? 3/ The Limping Child: Septic Arthritis or Synovitis?


Wedge JH: EPOC Messe Frankfurt GmbH-Paediatric Orthopaedic Surgery Conference, Dubai, United Arab Emirates, 4 Oct 2013. Invited Lecturer: 1/ The older child with DDH - When is reduction of complete dislocation indicated? 2/ Preventing and managing redislocation after open reduction. 3/ Panel discussion of cases.

Wright JG: APOS, Sydney, Nova Scotia, Canada, 12 Sep 2013. Invited Speaker: Are patients getting the orthopaedic procedures they need?


Research and Investigations


Child pedestrian injury in the City of Toronto: The role of the built environment and active school transportation. CIHR, Doctoral Award-Frederick Banting and Charles Best Canada. Howard A, Rothman L. ($105,000.00 CAD, May 2011 - Apr 2014).


Long Term Follow-up of Instrumentation in Spina Bifida Scoliosis. CIHR, Master's Award: Frederick Banting and Charles Best Canada. Wright JG, Khoshbin A. ($17,500.00, Sep 2012 - Aug 2013).


Molecular mechanisms in Fractures and Wound healing. Canadian Institutes of Health Research (CIHR). Alman BA, Nam D. ($930,804.00 CAD, Apr 2013 - Mar 2018).

Molecular mechanisms in fracture and wound healing. Canadian Institutes of Health Research (CIHR). Alman BA. ($931,675.00 CAD, 2008 - 2013).


Percutaneous Screw versus Percutaneous Drill Epiphysiodesis for Leg Length Discrepancy: A Randomized Controlled Trial*. Pediatric Orthopaedic Society of North America (POSNA). Dodwell E, Wright JG. ($30,000.00 CAD, Jun 2014 - May 2015).


Retro-Articular vs. Trans-Articular Drilling for Stable Juvenile Osteochondritis Dissecans (OCD) of the Knee. American Orthopaedic Society for Sports Medicine (AOSSM). Heyworth B, ROCK Group,
Murnaghan ML. ($40,000.00 USD, Jul 2012 - Jul 2014).


Honours Received


Division of Plastic and Reconstructive Surgery

<table>
<thead>
<tr>
<th>Dr. G.H. Borschel</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. H. Clarke</td>
<td>Professor</td>
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<tr>
<td>Dr. J.S. Fish</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. D. Fisher</td>
<td>Associate Professor</td>
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<tr>
<th>Dr. C. Forrest</th>
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<tr>
<td>Dr. J. Phillips</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. K.W.Y. Wong</td>
<td>Assistant professor</td>
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<tr>
<td>Dr. R. Zuker</td>
<td>Professor</td>
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Publications


**Invited Visits**


Clarke H: American Society for Peripheral Nerve, Kauai, Hawaii, United States, 12 Jan 2014. Presenter: 1/ Anatomic sites of origin of the suprascapular and lateral pectoral nerves within the brachial plexus. 2/ Past Presidents Invited Panel. 3/ Obstetrical Brachial Plexus Palsy. 4/ Pediatric Brachial Plexus: Managing the Shoulder.

Clarke H: Neonatal Brachial Plexus Palsy: Moving the Science Forward, Wayne State University, Detroit, Michigan, United States, 14 May 2014. Speaker: Outcomes after neonatal brachial plexus palsy.

Fish JS: The European Pediatric Burn Conference (EPBC), Munich, Germany, 14 Oct 2013. Invited Speaker: 1/ Pediatric Burn Reconstruction. 2/ Closed Dressing Technique. 3/ Technique of Scar Release.

Fish JS: Carroll University, Wisconsin, United States, 19 Mar 2014. Speaker: Leadership Development Talk to students from Carroll University about leadership development in healthcare.


Fisher D: CoRSU (Comprehensive Rehabilitation Services in Uganda. For People with Disability), Uganda, 1 Feb 2014. Invited Lecturer: 1/ Microtia reconstruction. 2/ Cleft lip & palate.


Forrest C: Yekatit 12 Hospital, Adis Abeba, Ethiopia, 15 Jan 2014. Invited Lecturer: Team from SickKids invited to carry out a needs assessment to manage surgical cleft lip and palate patients and the feasibility in establishing an Orthognathic Surgery Program.

Forrest C: Baltimore, Maryland, United States, 17 Apr 2014. Invited Lecturer: The evolution of treatment for sagittal synostosis.


Phillips J: Texas Childrens' Hospital, Baylor College of Medicine, Houston, Texas, United States, 17 Feb 2014. Visiting Professor: 1/ Computer Assisted Systems in Pediatric Craniofacial Surgery 2/ Cleft
Orthognathic Surgery.

**Phillips J**: University of Colorado School of Medicine, Children’s Hospital Colorado, Denver, Colorado, United States, 19 Feb 2014. Visiting Professor: Computer Assisted Systems in Pediatric Craniofacial Surgery.


**Zuker R**: Ichilov Hospital, Tel Aviv, Israel, 20 Oct 2013. Invited Speaker: Common Embryological Events and Reconstructive Solutions Plastic Surgery Rounds, Ichilov Hospital.


**Zuker R**: The Department of Plastic Surgery, The University of the Witswatersrand, Johannesburg, South Africa, 31 Oct 2013. Invited Speaker: 1/”Common Embryological Events and Reconstructive Solutions”. 2/”The Cleft Lip and Palate Programme at The Hospital for Sick Children, Toronto”.

**Zuker R**: The University of the Witswatersrand, Johannesburg, South Africa, 1 Nov 2013. Invited Lecturer: The Smile Foundation and The Department of Plastic Surgery.


**Zuker R**: Association of Plastic Surgeons of Malaysia. Kuala Lumpur Academy of Sciences, Kuala Lumpur, Malaysia, 17 May 2014. Invited Lecturer: 1/ Facial Paralysis Reconstruction in Children. 2/ Conjoined Twins: Etiology Classification and Surgical Separation: Lessons Learned. 3/ The Broad Brush of Pediatric Microsurgery - Cover the Canvas!

**Zuker R**: James Barrett Brown Research Day, Washington University School of Medicine, St. Louis, Missouri, United States, 5 Jun 2014. Invited Lecturer: The Broad Brush of Pediatric Microsurgery.

**Zuker R**: Washington University School of Medicine, St. Louis, Missouri, United States, 7 Jun 2014. Course Director: Animating the Paralyzed Face: Keys to Evaluation and Surgical Management.

### Research and Investigations

An international study to develop a patient reported outcome instrument for cleft lip and/or palate patients: The CLEFT-Q. **CIHR open Operating Grant.** Wong KW, Klassen A, Forrest C, Pusic A. ($602,389.00 CAD, Jan 2013 - Dec 2018).

An Optical Imaging Device for a Rapid Assessment of Tissue Viability and Wound Healing. **Centre for Security Science CRTI.** Sowa M, Fish JS. ($180,000.00 CAD, Jan 2011 - Dec 2014).

Comparisons of Tests of Sensory Outcome After Nerve Injury in Children. **Ontario Society of Occupational Therapists.** Ho E, Clarke H, Borschel GH. ($1,000.00 CAD, Sep 2012 - Sep 2013).


Educational Exchange Programme for Cleft Lip and Palate Repair. West Bengal and Assam, India. **Donner Foundation.** Zuker R. ($230,000.00 CAD, 2007 - present).


Enhancement of nerve regeneration with aminopropyl carbazoles following nerve injury. PSI Foundation. Borschel GH, Catapano J. ($20,000.00 CAD, Jul 2013 - Jun 2014).

Enhancing outcomes following nerve injury using combined electrical stimulation and nerve bridges to the chronically denervated stump. RestraComp. Borschel GH, Hendry M. ($80,000.00 CAD, Sep 2012 - Aug 2014).


Ministry of Training, Colleges and Universities Student Financial A. Ministry of Training, Colleges and Universities. Borschel GH. ($15,000.00 CAD, Jul 2012 - Jul 2013).


Honours Received

Wong KWY: Junior Investigator Scholarship, 12th International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies. Based on abstract submission for travel to conference for presentation. 2013


Division of Urology

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

Publications


**Invited Visits**


Lorenzo AJ: Fundacion Cardioinfantil, Bogota, Colombia, 14 Aug 2013. Speaker: 1/ Pediatric Urology Surgical Workshop. 2/ Surgical correction of proximal hypospadias, botulinum toxin intravesical injection for neuropathic bladder dysfunction, laparoscopic assisted creation of Mitrofanoff channel, and buccal graft vaginoplasty.

Lorenzo AJ: Presentations at the XLVIII Congress of the Colombian Urological Association (International Urology Course Cali 2013), Bogota, Colombia, 15-17 Aug 2013. 1/ Presenter: Botulinum toxin injection...
for neuropathic bladder dysfunction. 2/ Presenter: Laparoscopy and renal tumors. 3/ Presenter: Ultrasound evaluation for cryptorchidism. 4/ Panel Member: Antenatal hydronephrosis. 5/ Presenter: Ectopic ureter and poorly functioning upper pole moiety.


Lorenzo AJ: IX Interantional Course on Pediatric Urology, Hospital Exequiel Gonzalez Cortes, Santiago, Región Metropolitana de Santiago, Chile, 5-6 Dec 2013. Invited Lecturer: 1/ Surgical and urological complications after pediatric renal transplantation. 2/ Preparing the urinary tract for pediatric renal transplantation.


Pippi Salle JL: Course on Bladder Pathology, Chilean Urological Association, Santiago, Chile, 2013. Invited Lecturer: 1/ How useful is bladder augmentation to obtain urinary continence in the child. 2/ Catheterizable conduits: When and how to use them. 3/ New approaches in the management of bladder extrophy. 4/ Experience with botox injection in pediatrics to improve bladder elasticity.


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


Research and Investigations


Determination of molecular signatures that allow differentiation between unilateral and bilateral Wilms’ tumors using genome-wide arrays and whole-exome sequencing. CI7 Council and Childhood Cancer Care Canada Foundation. Lorenzo A. ($175,000.00 CAD, Jul 2013 - Jul 2015).


External Ear Project. ENT and the Transplant Centre, Hospital for Sick Children. Farhat WA. ($50,000.00 CAD, Jan 2013 - Dec 2015).


Inaugural Innovation Fund. The Hospital for Sick Children. Lorenzo A. ($10,000.00 CAD, Sep 2010 - 2013).


Novel Therapeutic Approaches For Obstructive Bladder Disease. Canadian Institutes of Health Research (CIHR). Bagli D. ($440,000.00, 2009 - 2013).


Summer Research Program. Hospital for Sick Children, The Dr Lorus J Milne and Dr Margery J Milne Award. Bagli DJ. ($3,000.00 CAD, Jul 2013 - Jun 2014).

Develop clinical pathways and tools to facilitate standardized information delivery to oncology patients and families concerning fertility preservation. Mary Jo Haddad (MJH) Innovation Fund Award. Lorenzo AJ. ($10,000.00 CAD, Jul 2013 - Jul 2014).

Honours Received


Lorenzo AJ: Clinical Prize, Pediatric Urology Fall Congress. Sep 2013
Mount Sinai Hospital

Jay S. Wunder,
*Surgeon-in-Chief,*
*Rubinoff-Gross Chair in Orthopaedic Oncology*

**Heads of Division**
- Dr. C. Swallow General Surgery
- Dr. D. Backstein Orthopaedic Surgery
- Dr. K. Jarvi Urology

**Division of General Surgery**
The Division has been very productive this past year, having published 48 articles, along with numerous international lectures that were given. Research funding has come from the American Society of Colon and Rectal Surgeons, American Board of Surgery, Canadian Institutes of Health Research, Terry Fox Research Institute, Canadian Radiation Oncology Foundation/Sanofi-aventis, Canadian Institute for Photonic Innovations, Canadian Cancer Society Research Institute Innovation Grants, Canadian Breast Cancer Foundation, Canadian Partnership Against Cancer, Canadian Society for Surgical Oncology, Council of Academic Hospitals, The Kristen Ann Carr Fund, Cancer Care Ontario, Council of Academic Hospitals of Ontario, and Ontario Institute for Cancer Research.

Of note: Robin McLeod received the Award of Excellence from the College of Physicians and Surgeons of Ontario, and the Robert Mustard Mentor of the Year Award from the Division of General Surgery, University of Toronto. Although Robin closed her clinical practice and became a Vice President of Clinical Programs & Quality Initiatives at Cancer Care Ontario, she still managed to be awarded a CIHR grant aimed at developing a decision rule for discharge following colorectal surgery. Erin Kennedy was promoted to Associate Professor at the University of Toronto, and was elected as the Cancer Care Ontario Gastrointestinal Lead with the Disease Pathway Management Program. Erin was also awarded a $1 Million grant from the Canadian Partnership Against Cancer to improve care and outcomes for patients with rectal cancer across Canada.

**Division of Orthopaedics**
Sixty-two articles were published in peer-reviewed journals as well as multiple visiting professorships and lectures. Research funding was received from Canadian Institutes of Health Research, Stryker Canada, Zimmer Canada, Ontario Institute for Cancer Research, Orthopaedic Research and Education Fund, and The Natural Sciences and Engineering Research Council of Canada, and The US Department of Defense.

Of note: Oleg Safir received the 2014 Award for Excellence in Postgraduate Medical Education at the University of Toronto in the category of Development and Innovation for development of the novel “Surgical Prep Camp” curriculum in the Surgical Skills Center, and also the Bruce Tovee Award for Postgraduate Education from the Department of Surgery. David Backstein was voted one of the top knee surgeons in North America by Orthopedics This Week, a leading U.S.-based industry publication. This closely followed David being ranked as one of Toronto’s top doctors by Toronto Life Magazine. Peter Ferguson received the Ivan Silver Award from the University of Toronto Faculty of Medicine for Excellence in Creative Professional Development related to the new Competency Based Curriculum in the Division of Orthopaedic Surgery.

**Division of Urology**
Fourty-five papers were published for the academic year 2013-2014, along with numerous international lectures. Research funding was awarded from MaRS Innovation, National Institutes of Health, Canadian Institutes of Health Research, McLaughlin Centre at the University of Toronto, Canadian Cancer Society, Canadian Cancer Society Research Institute, Canadian Urology Research Consortium, Pfizer Pharmaceuticals, Spectrum Pharmaceuticals and Astellas Pharma Global Development.

Of note: Kirk Lo won the A.W. Bruce Faculty Undergraduate Teaching Award from the Department of Surgery. Alex Zlotta was awarded the European Association of Urology’s Platinum Award. Alex also received the Basic Science Research Award at the Charles J. Robson Division of Urology Research Day, and won three best poster awards at the European Association of Urology Meeting. Keith Jarvi completed his Presidency of the Society for Studies in Male Reproduction. Keith and colleagues published a landmark paper in Science Translational Medicine describing a non-invasive method for diagnosing the cause of male infertility.
Division of General Surgery

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

Publications


Invited Visits


Easson AM: Grand River Regional Cancer Centre, Surgical Oncology, Kitchener-Waterloo LHIN, Cambridge, Canada, 4 April 2014. Invited Speaker: Breast reconstruction in breast cancer: where does it fit?


McLeod RS: Department of Digestive Surgery of the Pontificia Universidad Catolica de Chile, Santiago, Chile, August 2013. 1/ Invited Lecturer: Surgical options in Crohn's Disease. 2/ Invited Lecturer: How to avoid problems in the making of an ileoanal pouch. 3/ Invited Lecturer: Short and long term complications of the ileoanal pouch.


McLeod RS: Principles and Practice of Clinical Research, McMaster University, Hamilton, Ontario, September 2013. Adopting Evidence in to Practice-what are the challenges?

McLeod RS: American College of Surgeons Annual Meeting, Washington, United States, October 2013. How to treat rectal cancer: Can MRI or Ultrasound make the decisions for you?


McLeod RS: American Society of Colon and Rectal Surgeons Meeting, Florida, United States, May 2014. Invited Lecturer: Barriers to Adoption of Enhanced Perioperative Care Pathways.


Research and Investigations


A Single, Blind, Randomized Controlled Study to Evaluate the Safety and Effectiveness of EVICEL® as an Adjunct to Gastrointestinal Anastomosis Techniques. Ethicon™. McLeod RS. ($10,000 USD 2012-2013).


**Honours Received**


McLeod RS: Robert Mustard Mentor of the Year Award, Division of General Surgery, University of Toronto, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. 2014.

**Division of Orthopaedics**

Dr. D. Backstein | Associate Professor (Division Head)
---|---
Dr. P. Ferguson | Associate Professor
Dr. A. Gross | Professor

Dr. P. Kuzyk | Assistant Professor
Dr. O. Safir | Assistant Professor
Dr. T. Willett | Assistant Professor
Dr. J.S. Wunder | Professor

**Publications**


Invited Visits


Ferguson P: International Competency Based Medical Education Collaborators Group, Calgary, Alberta, Canada, October 2013. Facilitator: Implementation of Competency Based Medical Education.

Ferguson P: Candu Nuclear Energy, Mississauga, Canada, December 2013. Invited Speaker: Sarcoma - An Introduction to a Rare Cancer.


Ferguson P: 3rd Annual Sacro-Pelvic Tumor Conference, New York, New York, United States, 24 January 2014. Invited Speaker: Radiation-associated sacral fractures - can we learn lessons from other fractures?

Ferguson P: University of Manitoba, Winnipeg, Manitoba, Canada, April 2014. 1/ Invited Speaker: Competency Based Medical Education – The Future of Training but at what cost? Invited Lecture to local and provincial health care leaders. 2/ Invited Speaker: CanMEDS 2015 and Competency Based Medical Education in Post Graduate Training Lecture to University program directors and subsequent small group workshop. 3/ Invited Speaker: Practical Implementation of a Competency Based Curriculum for Post Graduate Training Medical Education Grand Rounds.

Ferguson P: 1st International Sarcoma Symposium, Toronto, Ontario, Canada, June 2014. Invited Speaker: How Can We Improve Functional Outcome in Extremity Sarcomas?

Ferguson P: AOA/COA Combined Meeting Symposium, Montreal, Quebec, Canada, June 2014. Invited Speaker: Competence as a Medical Expert – When does it occur and how do we know it when we see it?

Ferguson P: Council of Orthopaedic Residency Directors, American Orthopaedic Association, Montreal, Quebec, Canada, June 2014. Invited Speaker: Implementation and Initial Experiences with a Competency Based Orthopaedic Residency.


Gross A: VIII International Course Ciudad De Medellin Hip & Knee, Medellin, Colombia, 3 October 2013. 1/ Presenter: Conversion of a Fused Hip to a THA. 2/ Presenter: Impaction Grafting in Paprosky Type IV Femurs: There are better alternatives. 3/ Presenter: Modular Stems: Simplicity and Efficiency. 4/ Presenter: The Difficult Primary Hip. 5/ Presenter: The Dysplastic Hip: Not for the Shallow Surgeon. 6/ Presenter: Total Hip Revision: A Day in the Life of. 7/ Presenter: THA in the Patient with Down Syndrome. 8/ Presenter: Trabecular Metal Clinical Results Summary Zimmer Hip Meeting.


Gross A: 2nd Annual Current Concepts in Joint Replacement A Short Course Held in Conjunction with The Eight International Congress of the Chinese Orthopaedic Association Beijing, China, November 2013. 1/ Presenter: The dysplastic hip: Not for the shallow surgeon. 2/ Presenter: Strategies for dealing with massive
acetabular bone loss. 3/ Presenter: Trabecular metal augments for bone loss in revision THA.


**Gross A:** Mount Sinai School of Medicine, Department of Orthopaedics, New York, New York, United States, 29 January 2014. Visiting Professor: The Present Status of Allografts in Lower Extremity Reconstruction Grand Rounds.

**Gross A:** American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, United States, 14 March 2014. 1/ Instructional Course Lecturer: The role of allografts in lower extremity reconstruction. 2/Presenter: When acetabular cages are necessary Symposium.


**Safir O:** Ontario Orthopaedic Association, Toronto, Ontario, Canada, 8 November 2013. Hip Arthroplasty Complications.


**Wunder JS:** International Society of Limb Salvage, Bologna, Italy, 12 September 2013. 1/ Gene expression signature from tumor initiating population predicts clinical outcome in undifferentiated pleomorphic sarcoma. 2/ Clinical and functional outcome of patients with sarcoma in the hand and wrist.


**Wunder JS:** Connective Tissue Oncology Society, New York, United States, 1 November 2013. Comprehensive analysis of DNA copy number variations and gene expression in osteosarcoma.

**Wunder JS:** IVINS - Mayo Clinic, Rochester, Minnesota, United States, 21 November 2013. 1/ Visiting Professor: Novel Treatment Opportunities for Chondrosarcoma: Bench to bedside translational research. 2/ Visiting Professor: Soft tissue Sarcoma: Improving the Therapeutic Ration.


**Wunder JS:** ASRAM 214 Annual Meeting - Kauai Hawaii, 13 January 2014. Invited Speaker: How to achieve excellence in diagnosis, management, reconstruction and outcomes.


### Research and Investigations


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


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

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


**Honours Received**

Ferguson P: Ivan Silver Award, University of Toronto. Dept of Surgery, Faculty of Medicine. Excellence in CPD. 2013 - 2014.

Safir O: Faculty of Medicine Awards for Excellence in Postgraduate Medical Education – Development & Innovation, University of Toronto, Toronto, Ontario, Canada.

**Division of Urology**

| Dr. K. Jarvi | Professor (Division Head) |
| Dr. K. Lo | Associate Professor |
| Dr. A. Zlotta | Professor |

**Publications**


**Invited Visits**


Zlotta A: 6th Uro-Oncology Congress, Sao Paolo, Brazil, 16 August 2013. Keynote Speaker: Evolução da quimioterapia citotóxica no tratamento do câncer prostático resistente a castração?


Zlotta A: 5th European Multidisciplinary Meeting on Urological Cancers, Marseille, France, 15 November 2013. Invited Speaker: Active Surveillance or active treatment for localized PCa: Screening the right patient.


**Research and Investigations**


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


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

**Honours Received**

*Lo K:* A.W. Bruce Faculty Undergraduate Teaching Award, University of Toronto, Dept of Surgery, Faculty of Medicine. 2013.


*Zlotta A:* Basic Science Research Award, University of Toronto/2014 Charles J. Robson Research Day, Canada. 2014.

*Zlotta A:* Best Poster Award, European Association of Urology, Milan, Italy. The significance of finding no prostate cancer on the active surveillance confirmatory biopsy: Implications for pathological re-classification. 2013.


*Zlotta A:* Best Poster Award, European Association of Urology, Stockholm, Sweden. Fine-mapping of the Kallikrein region and its role in prostate cancer aggressiveness: Results from a Canadian cohort and the European Randomized Study for Prostate Cancer Screening. 2014.
Clinical excellence in surgery as well as an outstanding educational experience for undergraduate, graduate and post-graduate trainees has been the hallmark of the Department of Surgery at St. Joseph’s Health Centre over the past year. Surgical volumes were maintained or exceeded in our priority programs (hepatobiliary, thoracic surgery, bariatrics, arthroplasties). Under the guidance of Dr. J. Maniate (Director of Medical Education) there has been an increase in the number of undergraduate medical trainees in our surgery program. Dr. Maurice Blitz, Director of Surgical Foundations in the Department of Surgery has been instrumental in enhancing the training experience for junior surgical residents in all subspecialties at the University of Toronto.

**Division Heads**

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<tr>
<td>General Surgery</td>
<td>Paul Sullivan</td>
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<td>Thoracic Surgery</td>
<td>Maurice Blitz</td>
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<td>Orthopedic Surgery</td>
<td>Amr El Maraghy</td>
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<tr>
<td>Plastic Surgery</td>
<td>Craig Fielding</td>
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**Departures**

There were no departures from our surgical department in 2013-14.

**Publications**


**Education**

Dr. Ron Levine was the recipient of a Faculty of Medicine Integrated Medical Education Award for Sustained Excellence in Community-Based Teaching at the University of Toronto. This award recognizes sustained and exemplary teaching skills, demonstrated ability to stimulate learners to think critically, analytically and independently and commitment to the enhancement of the learner experience.

Dr. Amr El Maraghy received a Recognition Award from the Department of Physical Therapy at the University of Toronto. These awards acknowledge individuals who have provided great learning environments, guidance, supervision and are an inspiration to physical therapy students.

**Divisional teaching award winners 2013:**

General/thoracic surgery – Dr. M. Blitz, Dr. C. Compeau, Dr. S. Jayaraman

Urology – Dr. A. McLean

Plastic surgery – Dr. L. Kasrai

Orthopedic surgery – Dr. A. El Maraghy
Division of General Surgery

Dr. C. Compeau
Assistant Professor (Division Head)

Dr. T.A. Harmantas
Assistant Professor

Dr. R.S. Hart
Lecturer

Dr. S. Jayaraman
Assistant Professor

Dr. D.R. Lindsay
Lecturer

Dr. P.A. Sullivan
Lecturer

Division of Orthopaedics

Dr. W.A. ElMaraghy
Assistant Professor

Dr. M. Kliman
Lecturer

Dr. M. Roscoe
Assistant Professor

Dr. G. Vincent
Assistant Professor (Division Head)

Dr. M. Wood
Lecturer

Publications


Invited Visits


Honours Received

ElMaraghy AW: 2013 Integrated Medical Education Excellence in Community -Based Teaching Award, University of Toronto. 2013.


ElMaraghy AW: Outstanding Teacher Award Orthopaedic Surgery, awarded by the Department of Surgery, St. Joseph’s Health Centre. 2013.

ElMaraghy AW: Recognition Award, awarded by Department of Physical Therapy, University of Toronto. 2014.
Division of Plastic Surgery and Reconstructive Surgery

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

Publications


Invited Visits


Kasrai L: Canadian Society of Plastic Surgeons, Montreal, Quebec, Jun 28, 2014. Invited Speaker: Single stage autologous ear reconstruction for microtia; 10 consecutive cases.

Research and Investigations

Burn Injury Prevention, Medical Advisor. Global Alliance of Clean Cook Stoves. Kasrai L. (Sep 2012 – Present)

IAMGOLD. ISBI (International Society of Burn Injuries). Kasrai L. (2011-Present)

Honours Received

Levine R: Sustained Excellence in Community-Based Teaching Award, University of Toronto, 2014

Wanzel RK: Chair’s Award (Division of Plastic Surgery, University of Toronto). 2014

Division of Thoracic Surgery

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

Division of Urology

Dr. A. Chawla | Lecturer  
Dr. U. Jain | Lecturer (Division Head)  
Dr. A. Marcuzzi | Lecturer  
Dr. A. McLean | Lecturer
Our Department welcomed five new individuals this year. Dr. Aaron Nauth joined the Division of Orthopaedic Surgery. Dr. Nauth is a graduate of the University of Toronto Surgery training program followed by two fellowships; the first in Sports Medicine and Arthroscopy at the University of British Columbia, the second in Trauma and Upper Extremity at the University of Toronto. Dr. Nauth’s clinical focus is orthopaedic trauma, soft tissue reconstruction and arthroscopy. As a Scientist, his research focus is on the basic science of fracture and tendon healing with stem cell therapy in addition to conducting randomized clinical trials in orthopaedic trauma.

Dr. Michael Ordon joined the Division of Urology. Dr. Ordon is a graduate of the University of Toronto’s Surgery training program and completed a fellowship at the University of Toronto and the University of California, Irvine Medical Centre to complete in Endourology and Minimally Invasive Surgery. Dr. Ordon’s clinical focus is in the area of endourology, transplantation, minimal invasive urologic surgery and robotic procedures, with specific attention to cryoablative surgery. His research focuses on health services in the areas of kidney stones, kidney transplant and kidney cancer.

Dr. Jory Simpson joined the Division of General Surgery. Dr. Simpson is a graduate of the University of Toronto and completed a fellowship in Breast Surgical Oncology. His clinical focus is treating patients with benign and malignant breast diseases. His academic and research interests is improving breast cancer outcomes in disenfranchised populations and clinical trials. He is also the Associate Medical Director of the CIBC Breast Centre at St. Michael’s Hospital.

Dr. Mohammed Al-Omran returned to Toronto to take on the position of Head, Division of Vascular Surgery at St. Michael’s Hospital. Dr. Al-Omran has held many leadership roles at the King Saud University and its affiliated Hospitals and was involved in establishing many educational and research programs such as the Medical Research Chair Program, International Twinning Program and Clinician Investigator Programs. Dr. Al-Omran’s clinical interest is carotid surgery, open and endovascular intervention for peripheral arterial disease, vascular thoracic outlet syndromes, open and endovascular aneurysm repair. Dr. Al-Omran is also a scientist with special interest in peripheral arterial disease, health services research and knowledge translation. We also welcomed Dr. Krishna Singh as an Associate Scientist to the Divisions of Vascular and Cardiac Surgery. Dr. Singh received a PhD from the Institute of Human Genetics, Hannover Medical School in Hannover, Germany before completing a Postdoctoral fellowship in the Department of Laboratory Medicine and Pathology in 2007 and the Division of Vascular Surgery at the University of Toronto in 2011. He has since been a Research Associate working closely with Dr. Subodh Verma and Dr. Mohammed Al-Omran.

On October 1st we wished Dr. Jarley Koo a happy retirement. Dr. Koo joined St. Michael’s Hospital as Head, Division of General Surgery in 1991. Through his career, he dedicated his efforts on improving breast cancer care. This included developing a new business plan in 2000 that lead to the expansion of the Centre and its current naming as the CIBC Breast Centre. He also attracted the Ontario Breast Screening Program to the hospital. He was also pivotal in securing and sustaining our involvement in clinical research. Over the years, he has always advocated for state-of-the-art care for our breast cancer patients. We will miss his dedication to excellence as a surgeon and his compassion as a physician and wish him all the best as he embarks on the next chapter of life.

Each year we celebrate unique contributors to the educational mission through distribution of a number of awards. Dr. Jeremy Hall won the Donald J. Currie Award for his contributions to undergraduate teaching. Dr. Emil Schemitsch won the William J. Horsey Teaching Award in Postgraduate Education. The Jameel Ali Continuing Education Award went to Dr. Teodor Grantcharov. The
Leo Mahoney Resident Teaching Award was awarded to Dr. Matt Strickland (G/S). The Dr. McGoey Award in Orthopaedic Surgery was awarded to Dr. Nick Bayley. The James Waddell Mentorship Award (Squires-Hyland Trust) was awarded to Dr. Alan Lossing for his extraordinary efforts in supporting young staff during the early years of their career. Dr. Rob Stewart has lead the involvement of surgery in the launching of the new Longitudinal Integrated Curriculum for clerkship level medical student at the University of Toronto.

In the Research domain, Dr. Emil Schemitsch, has been appointed the St. Michael’s Hospital-University of Toronto Term Chair in Fracture Care Research. The five-year chair will support Dr. Schemitsch’s research on how to best care for patients with musculoskeletal injuries, including gene therapy, bone substitutes, computer-assisted surgery and the stimulation of fracture healing.

### Division of Cardiac Surgery

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


**Invited Visits**

**Peterson M**: Canadian Cardiovascular Congress, Montreal, Quebec, Canada, 18-19 Oct 2013. 1/ Chair: Aorta/TAVI/Aortic Valves Chaired Session on Aortic Surgery, TAVI and Aortic Valves. 2/ Invited Speaker: Contemporary Management of Aortic Arch Aneurysm: St. Michael’s Approach Surgical Treatment of Thoracic Aortic Disease.

**Peterson M**: Queen’s University, Kingston, Ontario, Canada, 18 Nov 2013. Visiting Professor: 1/ An Obituary to Open Aortic Valve Replacement? Transcatheter Aortic Valve Replacement Comes of Age. 2/ Contemporary Management of Aortic Arch Aneurysm: St. Michael’s Approach.


**Peterson M**: Shonan Kamakura General Hospital, Yokohama, Japan, 13 May 2014. Invited Speaker: Transapical TAVR Comes of Age.

Presenter: 1/ Early Failure of Edwards Sapien Valve Treated with Implantation of St. Jude Portico Valve. 2/ FORTIS First in Man Experience.

Verma S: NB Heart Centre Symposium: Current Perspectives in Cardiovascular Disease, Miramichi, New Brunswick, Canada, 20 Sep 2013. Invited Speaker: 1/ BAV and aortopathy What is appropriate follow-up, Imaging and indications for surgery. 2/ Severe Mitral Regurgitation with EF < 20% when and if to operate.


Verma S: Canadian Society of Cardiac Surgeons, Montreal, Quebec, Canada, 19 Oct 2013. Invited Speaker: 1/ DNA Damage Repair and Cardiovascular Disease : Lessons from BRCA1/2 Royal College Gold Medal Presentation. 2/ Bicuspid Aortic Valves CSCS Post Graduate Courses.

Verma S: Snell, Montreal, Quebec, Canada, 19 Oct 2013. Invited Speaker: VEGF and anti-VEGF mechanisms of action, efficacy and potential side effects Session: Anti-VEGF Therapy: More than meets the eye.


Research and Investigations


Elucidating the Role of BRCA1 as a target to improve endothelial function, promote angiogenesis and attenuate atherosclerosis. Verma S. Heart and Stroke Foundation of Ontario (The) (HSFO). ($341,143.00 CAD, Jul 2013 - Jun 2016).


Traineeship in Atherosclerosis Program. Canadian Rx&D companies. Verma S. ($6,000,000.00 CAD, Jul 2006 - Jun 2014).

Honours Received

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

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

Division of General Surgery

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


Rezende-Neto JB. What is Important for a General Surgeon to Know about Abdominal Compartment Syndrome. In: Rasslan S, Birolini D, Utiyama EM, eds. (eds), Atualização em Cirurgia Geral, Emergência e Trauma 8. 2014. São Paulo, Brazil: ICHC-FMUSP.


Invited Visits


**Baxter N:** Personalized Medicine in the Management of Colorectal Cancer Conference, Montreal, Quebec, Canada, 6 Nov 2013. Speaker: Biomarkers.

**Baxter N:** European Colorectal Congress Complications in Colorectal Surgery, Saint Gallen, Switzerland, 1-4 Dec 2013. Invited Speaker: 1/ To divert or not: evidence and decision-making around ostomies. 2/ Toxic Colitis.

**Baxter N:** General Medical Update, Lac Bay, Bonaire, Saint Eustatius And Saba, 28 Mar 2014. Invited Speaker: Does my patient have Lynch syndrome? Identifying the at risk patients in your practice.


**Baxter N:** American Society of Clinical Oncology, Chicago, Illinois, United States, 31 May 2014. Invited Speaker: A chance to cut.

**Burnstein MJ:** Association of Surgeons in Jamaica, Kingston, West Indies, Jamaica, 17 May 2014. Invited Speaker: Technique of rectal cancer resection: important and imperfect.


**de Montbrun S:** Colorectal Residents 4th Annual Career Course, Ohio, United States, 8 Nov 2013. Presenter: COSATS: What Colorectal Residents Must Know!

**de Montbrun S:** Royal College International Consensus Meeting - The Retreat, Florida, United States, 3 Jan 2014. Invited Speaker: Assessment for Certification.

**George R:** Thunder Bay Regional Hospital, Thunder Bay, Canada, 14 Sep 2013. Invited Speaker: Breast screening 2013: Dealing with the 40-50 age group.

**Grantcharov T:** 1st Global Conference in Sports Technology and Innovation, Las Vegas, Nevada, United States, 5 Aug 2013. Distinguished Speaker: Performance analysis for better training and patient outcomes in surgery.


**Grantcharov T:** CTV, Toronto, Ontario, Canada, 2 Oct 2013. Invited Speaker.

**Grantcharov T:** World Health Organization and Canadian Patient Safety Institute, Edmonton, Alberta, Canada, 22 Oct 2013. Keynote Speaker: Use of multi-channel recording device to register, analyze and prevent errors in the Operating Room.

**Grantcharov T:** Global TV, Toronto, Ontario, Canada, 11 Dec 2013. Invited Speaker: Evidence-based OR and ICU design.

**Grantcharov T:** Global TV, Toronto, Ontario, Canada, 27 Jan 2014. Invited Speaker: Toronto doctor hope to revolutionize the operating room with google glass.

**Grantcharov T:** CBC, Toronto, Ontario, Canada, 10 Feb 2014. Invited Speaker.

**Lawless B:** Ontario Hospital Association, Toronto, Ontario, Canada, 29 Aug 2013. Chair: Ontario’s Life or Limb Policy: Implications for Ontario Hospitals Overview of the Life or Limb / Repatriation policies with description of roles / accountabilities LHINs, Hospitals and care providers.

**Lawless B:** Canadian Critical Care Forum, Toronto, Ontario, Canada, 10 Nov 2013. Invited Lecturer: Patient Flow and Critical Care; Ontario’s Life or Limb Policy Discussing potential impacts on patient flow, both for access to emergent and urgent care as well as repatriation of stable patients.


Marshall JC: Annual Congress, British Society for Immunology, Liverpool, United Kingdom, 5 Dec 2013. Plenary Address: Evolving concepts in the pathophysiology of sepsis.


Marshall JC: Xiangya School of Medicine, Changsha, China, 21 Apr 2014. Visiting Professor: 1/ InFACT: Global collaboration in acute care research. 2/ Management of severe acute pancreatitis.


Research and Investigations


A multidisciplinary approach to reducing positive margin rate in breast conserving surgery. St. Michael’s Hospital, Quality Improvement in Oncology Care. Simpson JS. ($5,000.00 CAD, 2014 - 2015).


A pilot randomized controlled trial to evaluate the efficacy of unfractionated heparin in septic shock. Marshall JC, Zarychanski R, Fergusson DA. ($100,000.00 CAD, 2011 - 2013).


Cancer Care Ontario Health Services Research Chair. Cancer Care Ontario. Baxter NN, ($1,000,000.00 CAD, Jul 2009 - Jun 2014).


Developing objective structured assessments of technical skill, and establishing technical competence through standard setting. *Society for Surgery of the Alimentary Tract (SSAT).* de Montbrun S. ($40,000.00 USD, Jul 2013 - Jul 2015).


Establishment and maintenance of an educational program in simulation and minimally invasive surgery. *St. Michael’s Hospital Foundation.* Grantcharov T. ($4,000,000.00, 2010 - 2019).


Improving Implementation: Exploring the uptake of safe surgery checklists. Faculty of Community Service, Ryerson University. Espin S, Safrir O, Grant R, Kitto S. ($9,125.00 CAD, May 2014 - Dec 2014).


The role of remote ischemic preconditioning (RIPC) in preventing organ dysfunction following hemorrhagic shock. MITACs accelerate PhD fellowship. Rotstein OD, Caldarone C, Leung CH. ($96,000.00 CAD, Jan 2014 - Dec 2016).


Honours Received


Baxter N: Eugenie Stuart Best Instructor Award, University of Toronto, Inst of Health Policy, Mgmt & Evaluation, Faculty of Medicine, Toronto, Ontario. 2013.


Division of Neurosurgery

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<tr>
<th>Dr. M.D. Cusimano</th>
<th>Professor</th>
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<tr>
<td>Dr. S. Das</td>
<td>Assistant Professor</td>
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<td>Dr. H. Ginsberg</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. R.L. Macdonald</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. R.G. Perrin</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. T.A. Schweizer</td>
<td>Assistant Professor</td>
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<td>Dr. J. Spears</td>
<td>Assistant Professor</td>
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Publications


**Invited Visits**


**Research and Investigations**


Joint Funding Award for the 2013 Summer Undergraduate Research Program. *Institute of Medical Science, University of Toronto*. Cusimano MD. ($4,800.00, Jun 2013 - Aug 2013).


Neuroimaging Correlates of Delusions in Alzheimer’s Disease and Related Dementias. *Canadian Institutes of Health Research (CIHR)*. Fischer C, Schweizer TA, Millikin C, Ismail Z, Lix L, Munoz D, Shelton P.


Targeting vascular mimicry in glioblastoma. b.r.a.i.n.child. Das S. ($50,000.00 USD, Jul 2013 - Jul 2015).

The role of the epithelial-mesenchymal transition in the maintenance of stem-cell identity in glioblastoma brain tumor stem cells. b.r.a.i.n.child. Das S. ($44,100.00, Jul 2011 - Jul 2013).


Division of Orthopaedics

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

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

Publications


Daniels TR, Mayich DJ, Mayich MS, Pinsker E, Mak W. An analysis of the use of the Kellgren and Lawrence grading system to evaluate peritalar arthritis following total ankle arthroplasty. Foot Ankle Int. 2013 Nov; 34(11): 1508-15.


Jolles BM, Beaton DE, Gross DK, Bogoch ER. Patient specific indices provide additional understanding of the outcome of total hip arthroplasty in patients with juvenile idiopathic arthritis. Quality of Life Research. 2013 Sep.


Invited Visits


Ahn H: Ditan Hospital - Capital University, Beijing, Beijing, China, 11 Jun 2014. Visiting Professor: 1/ My Personal Experience With Computer Assisted Spine Surgery. 2/ Anterior Thoracolumbar Vertebral Body Reconstruction.


Ahn H: Taishan Medical University, Taian, Shandong, China, 13 Jun 2014. Invited Speaker: Anterior Thoracolumbar Vertebral Body Reconstruction.


Bogoch ER: American Society for Bone & Mineral Research, Baltimore, Maryland, United States, 7 Oct 2013. Speaker: Outcomes of an Orthopaedic Post Fracture Bone Health Assessment Program.


Daniels T: AOFAS, Hollywood, Florida, United States, 17 Jul 2013. Invited Speaker: Complex reconstruction: New advances and old favorites The adult flatfoot: Cavovarus deformity - Do we really need to cut the heel?


Daniels T: AOFAS, La Jolle, California, United States, 17-18 Jan 2014. Invited Speaker: 1/ A Case-Based Approach to Deformity Correction Session on Ankle Arthritis Deformity - Arthroplasty: “Surgical Strategies for the Failed Total Ankle”. 2/ A Case-Based Approach to Deformity Correction Session on Medial Column Deformity-Flatfoot: “Calcaneal Osteotomies”. 3/ A Case-Based Approach to Deformity Correction Session on Tibio-Talar Trauma and Deformity: “Strategies for the failed total ankle”.

Daniels T: The Dewar Society, San Francisco, California, United States, 6 Feb 2014. Presenter: Surgical technique for total ankle arthroplasty in ankles with peripero operative coronal plane varus deformity of 10 degrees or greater Podium presentation.


Daniels T: Canadian Orthopaedic Foot and Ankle Society, Toronto, Ontario, Canada, 11-12 Apr 2014. 1/ Chair: Tarsal coalitions in adults. 2/ Moderator: Revision Foot and Ankle Surgery -- Panel discussion. 3/ Moderator: Foot and Ankle Clinics -- “Four Live Interactive Patients Presentations” for clinical examination, advice.

Daniels T: AOFAS, Westerville, Ohio, United States, 3 Jun 2014. Invited Speaker: AAOS - AOFAS Specialty Day Webinar - The role of orthobiologic adjuncts in foot and ankle fusion: 1/ RHPDGF in hindfoot fusion. 2/ Case reviews.

Daniels T: COA/AOA. Montreal, Quebec, Canada, 2014 Jun 20. Presenter: 1/ Foot & Ankle. 2/ Does the SF-36 mental health composite score predict functional outcome after surgery in patients with end stage arthritis? 3/ Outcomes of tibiotalocalcaneal or pantalar fusion versus total ankle replacement with ipsilateral subtalar or triple fusion.


McKee M: JBJS, Needham, Massachusetts, United States, 1 Sep 2013. Presenter: Displaced, fractures of the clavicle: Who should be fixed? web commentary.

McKee M: Orthopaedic Trauma Association, Phoenix, Arizona, United States, 10-11 Oct 2013. Presenter:
1/ Upper Extremity/Wrist/Hand. 2/ Assessment of Fracture Repair - What is the Problem and is there a

McKee M: AO Trauma, Davos, Switzerland, 10-13 Dec 2013. Invited Speaker: 1/ Proximal carpus injuries
Masters Course-upper extremity. 2/ Distal radial and DRUJ injuries Masters Course-upper extremity.
3/ Humeral shaft and distal humral injuries Masters Course-upper extremity. 4/ Malunion in Forearm
Fractures Masters Course-Upper Extremity. 5/ Instability of the Elbow Master Course-Upper Extremity.

Radius Malunion - Treat the radius Specialty Day Combined Session.

McKee M: University of California at San Francisco, San Francisco, California, United States, 23 Apr 2014.
Visiting Professor: 1/ Grand Rounds - UCSF Orthopaedics. 2/ Case Presentations - UCSF Orthopaedics.
3/ Resident Lecture Series.

McKee M: Columbia University, New York, New York, United States, 9-10 May 2014. Invited Lecturer:
1/ The two most important research papers this year in orthopaedic trauma. 2/ Total elbow replacement
Orthopaedic Trauma. 3/ Clavicle fractures: When and how should they be fixed? 4/ Clavicle Orthopaedic
Trauma.

Nauth A: 2013 Annual Meeting of the Orthopaedic Trauma Association, Phoenix, Arizona, United States,
Based Medicine. 2/ Surgical Approaches for Rib Fracture Fixation. 3/ Efficacy of Autografts: Do Harvest
Sites Matter? 4/ Stem Cell Populations for Fracture Healing: Which Ones are Most Useful? 5/ The Effects
of Endothelial Progenitor Cell Therapy on Diabetic Rat Fracture Healing.

Nauth A: 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans,
Louisiana, United States, Mar 2014. Presenter: 1/ Periprosthetic Fractures of the Tibia in Total Knee
Arthroplasty. 2/ Periprosthetic Fractures of the Femur in Total Hip Arthroplasty. 3/ Fractures of the Distal
Humerus: Evidence-Based Surgical Approaches and Fixation Strategies. 4/ The Effects of Endothelial
Progenitor Cell Therapy on Diabetic Rat Fracture Healing.

Nauth A: 2014 Annual Meeting of the Trauma Association of Canada, Montreal, Quebec, Canada, Apr

Schemitsch E: 7th Annual Baltimore Hip and Knee Course, Baltimore, Maryland, United States, Aug 2013.
1/ Moderator: Hip Resurfacing. 2/ Panelist: What would you do: complex hip and knee cases Part I. 3/ Panelist:
What would you do: complex hip and knee cases Part II.

Schemitsch E: The Hip Society, Charleston, South Carolina, United States, Oct 2013. Presenter: 1/ Prevalence
and predictors of pseudotumor and elevated metal ion levels following large-diameter head metal-on-metal
total hip arthroplasty. 2/ The acetabular component introducer as a tool for intraoperative prediction of
implant position in total hip arthroplasty. 3/ Prevalence and predictors of pseudotumor and elevated metal
ion levels following large-diameter head metal-on-metal total hip arthroplasty. 4/ The acetabular component
introducer as a tool for intraoperative prediction of implant position in total hip arthroplasty.

Schemitsch E: Orthopaedic Trauma Association Annual Meeting, Phoenix, Arizona, United States, Oct
3/ The operative vs non-operative treatment of humeral shaft fractures: What does EBM tell us. 4/ Rib
fracture fixation in 2013: The need for an RCT.

Presenter: 1/ Symposium: Hip fixation recommendations in 2013: intramedullary nailing. 2/ Conducting
International Clinical Research: What resources are necessary. 3/ Infection symposium: moderator.
4/ Musculoskeletal infection: paper moderator and overview presenter.

Speaker: 1/ Hip resurfacing? MOM THA: Is there any role in 2013. 2/ Use of bone substitutes in orthopaedic
trauma in 2013. 3/ Periprosthetic fractures of the femur: Current management concepts.

Schemitsch E: International Society for Technology in Arthroplasty, Palm Beach, Florida, United States, Oct
2013. Presenter: Total hip arthroplasty following failure of core decompression and tantalum rod insertion
for femoral head avascular necrosis.

Schemitsch E: Great Expectations North Hip and Knee Meeting, Montreal, Quebec, Canada, Nov 2013.
1/ Moderator: Knee meeting. 2/ Presenter: Managing the stiff TKA 3/ Debater: The patella should not be
resurfaced in TKA. 4/ Presenter: Metal allergy in TKA. 5/ Presenter: Tip and tricks to reduce dislocation in
THA. 6/ Panelist: Hip cases.

Schemitsch E: Canadian Orthopaedic Association, Montreal, Quebec, Canada, Jun 2014. Speaker: 1/ Bone defects: When are orthobiologics indicated? 2/ Orthopaedic workforce needs: Challenges in a changing environment. 3/ Osteoporotic fractures in the elderly: Optimizing surgical management.

Waddell JP: Brazilian Society of Orthopaedics & Traumatology (SBOT), Rio de Janeiro, Brazil, 11 Jul 2013. Invited Speaker: The Most Frequent Complications in THA.


Waddell JP: Champlain LHIN, Ottawa, Ontario, Canada, 10 Oct 2013. Invited Speaker: Orthopaedics - Provincially / Nationally; Facilitated Discussion Consultation session about the Regional Orthopaedic Program and Distribution of Services, Champlain LHIN.


Grants

Abuse screening in orthopaedic surgery: Building knowledge and capacity for change. Faculty of Medicine, University of Toronto. Schemitsch EH, Gotlib L, Young A, Rotstein O. ($9,425.00 CAD, Jan 2013 - Dec 2014).

A comparison of endothelial progenitor cell (EPC) based gene therapy versus mesenchymal stem cell (MSC) based gene therapy for the healing of bone defects. Orthopaedic Trauma Association (The) (OTA). Nauth A, Schemitsch EH. ($50,000.00 CAD, Jan 2013 - Dec 2015).


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. ($78,630.00 USD, 2010 - 2013).

A randomized clinical trial of early weight bearing for operative ankle fractures. Canadian Orthopaedic Trauma Society. Dehghan N, Schemitsch EH, McKee MD. ($6,000.00 CAD, Dec 2012 - Dec 2013).

A randomized trial of cannulated screws vs sliding hip screws for femoral neck fractures. Canadian Institutes of Health Research (CIHR), FAITH Investigators. Schemitsch E. ($1,780,737.00 CAD, Jul 2010 - Jun 2014).


International orthopaedic multicenter study in fracture care (INORMUS). Canadian Institutes of Health Research (CIHR). INORMUS Investigators, Schemitsch E. ($500,000.00 CAD, Jan 2014 - Dec 2016).

Isolated locked compression plating versus cable plating and strut allograft with cerclage wiring for Vancouver B1 periprosthetic femoral fractures. University of Toronto. Nauth A, Schemitsch EH, U of T Arthroplasty/Trauma Collaborative. ($45,000.00 CAD, Jan 2013 - Dec 2014).


Locked compression plating versus cable plating combined with strut allografts for Vancouver B1 periprosthetic femoral fractures: A randomized controlled trial. Orthopaedic Trauma Association (The) (OTA). Nauth A, Schemitsch EH. ($79,400.00 CAD, Jan 2013 - Dec 2015).


Operative versus non-operative treatment of acute unstable chest wall injuries: a multi centered randomized controlled trial. PSI Foundation. McKee MD, Nauth A, Dehghan N, Vicente M, Schemitsch EH. ($126,000.00 CAD, Jan 2013 - Dec 2015).

ORIF vs non-operative treatment for unstable chest wall injuries. A randomized multi centre clinical trial. AO Foundation. McKee MD, Dehghan N, Nauth A, Schemitsch EH. ($120,000.00 CAD, Jan 2012 - Dec 2014).

Partnership for applied research in fracture prevention programs for the elderly. Canadian Institutes of Health Research (CIHR). Bogoch ER. ($499,499.00 CAD, Apr 2012 - Mar 2015).


Reamer Irrigator Aspirator (RIA) versus Autogenous Iliac Crest Bone Graft (ACIBG) for the Treatment of Non-unions: A Multicentre Randomized Trial. AO Foundation. Nauth A, Schemitsch EH, Hall JA, McKee MD. ($130,000.00 CHF, Mar 2012 - Mar 2014).

Reporting outcomes of the Exemplary Care Program. Amgen Canada Inc (Mississauga, ON). Bogoch ER. ($100,000.00 CAD, Nov 2013 - Oct 2014).


The Use of Autologous Endothelial Progenitor Cells (EPCs) for the Healing of a Bone Defect in a Large Animal Model. Orthopaedic Trauma Association (The) (OTA). Nauth A. ($50,000.00 CAD, 2013).

The use of autologous endothelial progenitor cells for the healing of a bone defect in a large animal model. Orthopaedic Trauma Association (The) (OTA). Nauth A, Schemitsch EH. ($50,000.00 CAD, Jan 2014 - Dec 2016).

The use of endothelial progenitor cells (EPCs) for fracture healing in a diabetic fracture model. Orthopaedic Trauma Association. Lin C, Schemitsch EH. ($10,000.00 CAD, Jan 2011 - Dec 2013).


UTAC – University of Toronto Trauma-Arthroplasty Collaboration: A Randomized Controlled Trial of Isolated locked compression plating versus cable plating and strut allograft with cerclage wiring for Vancouver B1 periprosthetic femoral fractures. University of Toronto, Orthopaedic Divisional Funding Collaboration Initiative. Nauth A. ($45,000.00 CAD, 2013).


Honours Received


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

Bogoch ER: Lindy Fraser Award, Osteoporosis Canada, Canada. For research in osteoporosis. 2013


Nauth A: Edwin G. Bovill Award, Orthopaedic Trauma Association. For best scientific paper at the 2013 Orthopaedic Trauma Association Annual Meeting, Phoenix, AZ. 2013


Schemitsch E: St. Michael’s Hospital Term Chair in Fracture Care Research, University of Toronto. Jul 2013 - Jun 2018.
Division of Plastic and Reconstructive Surgery

Publications


Invited Visits


Research and Investigations


Honours Received

Musgrave MA: Medical Education Teaching Award for Clerkship, St. Michael’s Hospital, Plastic Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Jul 2013.

Division of Urology

Publications


Honours Received


Research and Investigations


Women’s College Hospital. AHSC AFP Innovation Funds. Grober E, Pace K, Shuler T, Andonian S. ($17,000.00 CAD, Jan 2013 - Jan 2014).

Honours and Awards

Lee J: DCCP Excellence Award in Education and Research for 2013, St Michael’s Hospital, University of Toronto. Sep 2013

Lee J: CUA Scholarship Fund Award, Canadian Urological Association. $40,000.00. Jun 2014

Lee J: Urology Faculty Postgraduate Teaching Award (Surgical Teacher), University of Toronto. Urology, Dept of Surgery, Faculty of Medicine. Jun 2014


Division of Vascular Surgery

Dr. M. Al-Omran
Dr. V. Campbell
Professor (Division Head)
Assistant Professor

Dr. A. Moloney
Dr. W. Tanner
Dr. M.D. Wheatcroft
Assistant Professor
Assistant Professor
Assistant Professor

Publications


Wheatcroft M, Lindsay T, Lossing A. Two cases of arteriovenous fistula formation between the external iliac vessels following endovenous laser therapy. Vascular. 2014 Feb 24.


Research and Investigations

TAC-CALL: Thoracic Aortic Care – Comprehensive Aortic Care on-line from acute presentation to long-term follow-up. AHSC AFP Innovation Fund. Moloney A, Peterson M. ($81,984.00 2012 – 2014)
The 2013-14 academic year within the Department of Surgery at Sunnybrook has been one of academic growth and broader integration through the development of relationships with community partners and stronger alignment with Sunnybrook Research Institute. Specifically, we have consolidated our Division of Vascular Surgery with that of North York General and Mackenzie Health and we anticipate greater integration with Mackenzie Health in other areas over the coming year. Relationships with the Toronto East General Hospital, particularly in the area of urologic oncology continue to advantage patients at both sites through a shared robotic program. There has been an increasing focus on quality and patient safety through more structured morbidity and mortality rounds across several divisions and directed initiatives focusing on both surgical site infections and operating room efficiency. Additionally, Sunnybrook has joined the National Surgical Quality Improvement Program to ensure our patients are receiving the highest level of surgical care. Together, these initiatives will ensure we provide the best possible care when it matters most.

Recruitment

Dr. Victor Yang was recruited to the Division of Neurosurgery as a surgeon scientist with a clinical focus of endovascular neurosurgery. As an engineer, he also holds a position as a scientist at Sunnybrook Research Institute (Physical Sciences platform) where he focuses on applying technologies to improve surgical navigation.

Dr. Nicole Look Hong was recruited to the Division of General Surgery as a surgeon investigator with a clinical focus on surgical oncology, breast cancer and melanoma. Dr. Look Hong holds a position as an Associate Scientist at Sunnybrook Research Institute (Evaluative Clinical Sciences platform), where she focuses her work on improving cancer care efficiency through economic analyses and systematic evaluation of new technologies.

Dr. Junaid Bhatti was recruited as a scientist at Sunnybrook Research Institute (Evaluative Clinical Sciences platform) with a focus on injury epidemiology, particularly the relationship between obesity and injury.

Departures

None

Division Reports

Cardiac surgery

Dr. Steve Fremes passed on the baton as division head to Dr. Gideon Cohen. Dr. Fremes was recognized for his leadership of the Division of Cardiac Surgery and subsequently the combined division of cardiac and vascular surgery since 2000. He was also recognized for 25 years of service to Sunnybrook. The Division continued to build upon the excellence in structural heart disease through further growth in the Transcatheter Aortic Valve Implantation (TAVI) and MitraClip programs. Dr. Cohen was featured by CTV News for “Operation Tweet: Toronto hospital live tweets heart bypass surgery” to teach the public about heart disease during Heart Health Month. Dr. Fuad Moussa was a recipient of the Peters-Boyd Academy Clerkship Teaching Award.

Neurosurgery

Dr. Todd Mainprize was appointed as the division head, taking over Dr. Michael Schwartz’s position. Dr. Schwartz leadership of the division over 15 years along and his service to Sunnybrook over a 35-year period were recognized. Dr. Mainprize was the recipient of the Marvin Tile Distinguished Service Award for his contributions both locally and regionally in advancing the goals of the division and the hospital. Dr. Leo Da Costa and his team were the only Canadian research group to be awarded a grant from a partnership between the National Football League and General Electric to support research in mild TBI. Through an initiative led by Dr. Victor Yang, the Division focused efforts to improve the quality of care of patients with ischemic stroke through the development of an interventional stroke pathway to reduce the time interval between stroke and clot extraction. Dr. Yang’s work in improving spinal navigation systems using biophotonics was featured by CBC News.
General Surgery
Dr. Sherif Hanna embarked on sabbatical in Egypt to develop a surgical residency program. Additionally, he received a special award at the Harrison Dinner for his longstanding service to the Department of Surgery. He was also the recipient of the Leo Stevens Excellence in Leadership award for his contributions as head of surgical oncology and Division Head, General Surgery. Dr. Ted Ross was recognized for 35 years of service. Division members demonstrated success at Gallie day, with Dr. Darlene Fenech receiving the Brue Tovey Award for excellence in undergraduate education and Dr. Avery Nathens the Charles Tator Surgeon Scientist Mentoring Award. Dr. Nathens was also the recipient of the Peters-Boyd Academy Clerkship Teaching Award. Dr. Nathens leadership in policy development led to him being awarded the University of Toronto’s Carolyn Tuohy Impact on Public Policy Award. Dr. Nathens was also named the de Souza Chair for Clinical Trauma Research. Dr. Calvin Law was promoted to full professor and was named Program Chief, Odette Cancer Centre and Cancer Care Ontario Regional Vice President, Toronto Central Regional Cancer Program. Dr. Frances Wright was appointed the Head, Breast Cancer & Melanoma Surgery, Temerty Breast Cancer Centre. Dr. Andy Smith assumed the position of Executive Vice President and Chief Medical Executive at Sunnybrook.

Plastic and Reconstructive Surgery
The Division, with its focus on breast and facial reconstruction following breast cancer and trauma, respectively has had a productive year. As part of a medical needs assessment team, Dr. Oleh Antonyshyn traveled to the Ukraine through the Canadian Ukrainian Foundation to determine priorities for training, the treatment of patients, medical equipment and capacity building in response to the recent crisis. Dr. Manuel Gomez, Scientist at SRI and St. John's Rehabilitation Institute was promoted to Associate Professor. Dr. Marc Jeschke led the Burn Program through a successful verification visit by the American Burn Association.

Urology
The Division has two primary areas of focus - reconstructive urology and prostate cancer and the Division members have demonstrated significant academic achievements in these areas over the past year. Dr. Ron Kodama received the University Award for Excellence in Postgraduate Medical Education and a Peters-Boyd Academy Clerkship Teaching Award. Dr. Laurence Klotz won the Lister Prize at Gallie Day, recognizing his outstanding and continuing research productivity of international stature. Dr. Klotz also received the Society of Urologic Oncology Medal from the American Urological Association (AUA) for significant achievements in the field. Dr. Sender Herschorn received the F. Brantley Scott Award from the AUA and was recognized for 35 years of service to Sunnybrook.

Orthopaedic Surgery
The Division of Orthopaedic Surgery continues its focus on arthroplasty and trauma at the Holland and Bayview sites, respectively. Dr. Veronica Wadey was promoted to Associate Professor and Dr. Albert Yee to Full Professor. Sunnybrook hosted the Inaugural Tile Lecture in Trauma, recognizing Dr. Marvin Tile’s contributions to care of the injured patient. Dr. Hans Kreder, Dr. David Stephen, and Dr. Richard Jenkinson were awarded the Orthopaedic Trauma Association Bovill Award for best paper.

Vascular Surgery
Dr. Andrew Dueck assumed the position as Division Head with the creation of two separate Divisions from the Division of Cardiac and Vascular Surgery. Dr. Dueck was also awarded the Undergraduate Teaching Award within the Department of Surgery at Sunnybrook. Through the efforts of the Division, Sunnybrook has also become the site for training Vascular surgery residents citywide in the interpretation of non-invasive vascular studies, leading to Registered Physician in Vascular Interpretation (RPVI) credentialing. The RPVI credentialing demonstrates the highest standard in vascular ultrasound interpretation.

Education-Institutional
With further investment in the Sunnybrook simulation centre, Sunnybrook held a grand opening of its minimally invasive surgical skills simulation laboratory. With these new resources, Dr. Shady Ashamalla hosted TORSO-tech, a one day teaching and simulation-based course featuring live surgery and simulation in order to transfer knowledge to practicing surgeons. This educational endeavour was sufficiently novel that CTV News featured this event as a model for knowledge transfer to practicing surgeons. As part of faculty development, the Department also hosted a leadership day focusing on the The Art of Conflict Resolution, led by expert mediator Gary Furlong. The event was very well received and served as an excellent model for improving communication and teamwork within the Department.
Division of Cardiac Surgery

Dr. G. Christakis  Professor  
Dr. G. Cohen  Associate Professor  
Dr. S. Fremes  Professor (Division Head)  
Dr. B.S. Goldman  Professor  
Dr. F. Moussa  Assistant Professor

Publications


Goldman BS, Diamond J. Mending Hearts and Building Bridges: The Story of Save a Childs Heart. May, 2014


Invited Visits

Cohen G: Canadian Association of Cardiac Rehabilitation, Montreal, Quebec, Canada, 18 Oct 2013. Speaker: “Clinical Updates: New and emerging trends in cardiology and cardiac surgery – what every rehabilitation specialist needs to know”.

Fremes S: Tokyo, Japan, 8 Jul 2013. Invited Speaker: TAVI Update from Surgical Perspective.


Fremes S: Canadian Cardiovascular Society, Montreal, Ontario, Oct 2013. Speaker:TAVI.

Fremes S: American Heart Association, Dallas, Texas, 19 Nov 2013. Speaker: The Radial Artery Graft: How Best to Use It?


Research and Investigations


SIRS (Phase IV Study of Perioperative Steroid’s Effect on Death or MI in High Risk Patients Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass). CIHR. Yusuf S, Moussa F. (2010 - present).


Honours Received

Cohen G: Bernie Goldman Award for Excellence in Teaching, University of Toronto, Cardiac Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Dec 2013

Division of General Surgery

Dr. S. Ashamalla  Assistant Professor
Dr. F. Brenneman  Associate Professor
Dr. P. Chu  Associate Professor
Dr. N. Coburn  Assistant Professor (Division Head)
Dr. D. Fenech  Assistant Professor
Dr. S. Hanna  Associate Professor
Dr. C. Holloway  Associate Professor
Dr. P. Karanicolas  Assistant Professor

Dr. C. Law  Associate Professor
Dr. N.J.L. Hong  Assistant Professor
Dr. B. Nascimento  Assistant Professor
Dr. A.B. Nathens  Professor
Dr. T. Ross  Associate Professor
Dr. A. Smith  Professor
Dr. H. Tien  Associate Professor
Dr. L. Tremblay  Assistant Professor
Dr. F. Wright  Associate Professor

Publications


Racz JA, Look Hong N, Latosinsky S. In search of a gold standard scoring system for the subjective evaluation of cosmetic outcomes following breast-conserving therapy. The Breast Journal. 2014 Jun.


Invited Visits


Ashamalla S: Canadian Community Oncology Conference, Collingwood, Ontario, Canada, Jun 2014. Invited Lecturer: Rectal Cancer - A surgical perspective.


Holloway C: Universite de Montreal, Montreal, Quebec, Canada, 10 Jan 2014. 1/ Invited Speaker: Preoperative MRI Staging in Breast Cancer: The Ontario Perspective. 2/ Chair: Management of the Axilla in 2014.


Law C: Canadian Surgery Forum, 2013. Presenter: Impact of epidural analgesia and fluid resuscitation on major adverse events following pancreaticoduodenectomy.


Law C: The 17th ECCO – 38th ESMO – 32nd ESTRO European Cancer Congress, Amsterdam, Netherlands, 28 Sep 2013. Presenter: Surgical Topics in mCRC.

Law C: Colorectal Cancer Association of Canada-Personalized Medicine in the Management of Colorectal Cancer, Montreal, Quebec, Canada, 6 Nov 2013. Invited Speaker: Treatment of Metastatic Disease and Novel Pharmacologic Approaches.

Law C: Canadian Colorectal Association of Canada, Vaughan, Ontario, Canada, 8 Nov 2013. Keynote Speaker.

Law C: Thunder Bay, Ontario, Canada, 12 Nov 2013. Invited Speaker: Optimizing Care of Patients with Metastatic Colorectal Cancer – Multidisciplinary Management of Patients with Colorectal Liver Metastases.


Law C: Royal College, Vancouver, British Columbia, Canada, 17 Nov 2013. Inaugural Meeting: Group Lead-Patient Communication and Information: Royal College’s Innovation and Technology Task Force.

Law C: Carcinoid NeuroEndocrine Tumour Society Canada, Ottawa, Canada, 10 May 2014. Speaker: Surgical Options and Challenges for NET Patients.

Law C: Nanjing First Hospital, Nanjing, China, 20 May 2014. Invited Speaker: 1/ Laparoscopic Distal Pancreatectomy. Lateral Approach. 2/ Multi-model Therapy for CRC - Cased Examples.


Nathens AB: First National Injury Research Methodology Course supported by CIHR Team Grant (Nathens). Montreal, Quebec, Canada, 2013 Nov. Presenter: Data Sources for Injury Research.

Nathens AB: Advances in Trauma Care: American College of Surgeons Committee on Trauma. Kansas City, Missouri, United States, 2013 Dec. Keynote Speaker: 1/ American College of Surgeons Trauma Quality Improvement Program. 2/ Managing competing priorities in trauma.

Nathens AB: Academic Surgical Congress. San Diego, California, United States, 2014 Feb. Presenter: The Trauma Center Organizational Culture Survey: Initial Studies on Survey Validation and Assessment of Trauma Centers.


**Research and Investigations**


**Advanced Minimally Invasive Surgery Simulation-Based training to Learners of all Levels.** *Johnson and Johnson*. Ashamalla S, Law C, Tepper J, Rynziski A, Tarshis J. ($150,000.00 CAD, Apr 2013 - Apr 2014).

**An innovative programme for teaching faculty an advanced minimally invasive surgical technique.** *Adjudication Committee*. Ashamalla S. ($9,391.00 CAD, Mar 2014 - Mar 2015).

**A novel radiofrequency coil device for ablation of breast tumours: Development and testing of an immobilization and localization system for accurate coil deployment in breast tissue.** *Sunnybrook Health Sciences Centre*, General Surgery Academic Enrichment Fund. McCann C, Look Hong N, Sherar M, Pignol JP, Wright FC. ($10,000.00 CAD, 2013 - 2013).


**A Virtual Education Tool to Empower Patients and Families for Safe and Effective Transition from Acute to Home Care.** AHSC, AHSC AFP INNOVATION FUND. Karanicolas P. ($100,000.00 CAD, Apr 2014 - Mar 2016).


**Bridging the gap: Implementing a complex intervention to improve communication and collaboration between surgeons and intensivists.** Sunnybrook Health Sciences Centre and Ministry of Health and Long Term Care. Cuthbertson B, Coburn N, Nathens AB. ($92,126 2013 Apr - 2015 Mar).


**Coagulopathy in Trauma: A Comparative Study between ROTEM® and TEG®.** *Defense Research and Development Canada, Canadian Department of National Defence*. Nascimento B. ($154,976.00 CAD, Jul 2012 - present).

**COMA Study – Catecholamines in Isolated Traumatic Brain Injury.** *Physicians Services Incorporated Foundation (The) (PSI)*. Rizoli S, Nascimento B. ($75,000.00 CAD, 2012 - present).


**Development and Implementation of an Educational Intervention to Optimize Communication and Care of Patients with Resectable Pancreatic Cancer from Diagnosis to Treatment.** *Pancreatic Cancer Canada*. Karanicolas P, Harth T, Gotlib Conn L, Wei A, Jayaraman S, Coburn N, Ellis J. ($91,400.00 CAD, 2014 - 2016).


Optimizing Inter-professional communication between Surgical Nurses and House Staff: An Exploratory Study. Coburn N. ($99,986.00 CAD, Mar 2014 - May 2016).


HonoursReceived
Ashamalla S: Sunnybrook Education Advisory Award - Teaching Award, Sunnybrook Health Science Centre. Dept of Surgery, Faculty of Medicine. May 2014.
Hanna SS: Leo Steven Excellence in Leadership Award, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada. Nov 2013.
Nascimento B: Fellowship Award. Salzburg Medical Seminars International, Salzburg, Austria. Jan 2014
Nascimento B: ATLS Instructor of the Year 2013, Advance Life Support Educators – Sunnybrook Health Sciences Centre, Emergency Medicine – Humber – Faculty of Medicine, University of Toronto. Jan 2014
Nathens AB: Inducted into Canadian Academy of Health Sciences. 2013
Nathens AB: Charles Tator Surgeon-Scientist Mentoring Award, University of Toronto. 2014 May
Nathens AB: Carolyn Tuohy Impact on Public Policy Award, University of Toronto, Toronto, Ontario, Canada. 2014
Tien H: Major Frederick Banting Chair in Military Trauma Research, Canadian Forces/Sunnybrook Health Sciences Centre, Canada. Term Reserach Chair. Jul 2013 - present.

Division of Neurosurgery

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

Publications


**Invited Visits**

*da Costa L: 12th International Conference on Neurovascular Events after Subarachnoid Hemorrhage, Lucerne, Luzern (de), Switzerland, 10 Jul 2013. Presenter: Changes in cerebrovascular reactivity to carbon dioxide early after subarachnoid hemorrhage do not predict vasospasm in good grade patients.*


**Research and Investigations**

*Automated medical device manufacturing through coherent imaging funded. Natural Sciences and Engineering Research Council of Canada (NSERC). Yang VXD. ($435,553.00, 2011 - 2014).*

*Biophotonics Experimental Operating Room. Canada Foundation for Innovation (CFI). Yang VXD. ($966,245.00, 2014 - 2019).*

*Biophotonics and Bioengineering. Natural Science and Engineering Research Council and Canada Foundation of Innovation. Yang VXD. ($627,275.00, 2013 - 2016).*

*Controlling femtosecond laser processing: smart fibers, catheters, and lab-on-fiber concepts. Natural Sciences and Engineering Research Council of Canada (NSERC). Herman P, Yang VXD. ($817,046.00, 2013 - 2018).*

*Correlation of BOLD imaging of cerebrovascular reserve with CO2 in patients with persistent post-concussion symptoms. NFL-GE Brain Challenge. da Costa L, Fisher J, Howard P, MacIntosh B. ($300,000.00 USD, Jan 2014 - Jan 2016).*


*Enhanced AMA endovascular catheter. Ontario Ministry of Research and Innovation (ON). Yang VXD. ($150,000.00, 2009 - 2013).*

High-Resolution OCT Imaging of Bronchial Epithelium. Canadian Institutes of Health Research (CIHR). Yang VXD. ($266,163.00, 2011 - 2014).


Intelligent beam control for ultrashort laser manufacturing of photonic and biomedical microsystems. Natural Sciences and Engineering Research Council of Canada (NSERC). Yang VXD. ($460,000.00, 2010 - 2013).


Molecular Targetting of the RHO-GTPase Pathway in Human Astrocytomas. Canadian Institutes of Health Research (CIHR). Rutka J, Hynynen K, Mainprize T. ($750,000.00 CAD, Jul 2010 - Jun 2015).


Optical coherence tomography, optical topographical imaging and fluorescence guided surgical laser ablation. Natural Sciences and Engineering Research Council of Canada (NSERC). Yang VXD. ($175,000.00, 2014 - 2019).


Optical imaging guidance for hard and soft tissue ablation. Canadian Institutes of Health Research (CIHR). Yang V. ($1,012,000.00, 2014 - 2019).


Natural Sciences and Engineering Research Council of Canada (NSERC). Yang VXD. ($140,000.00, 2009 - 2013).

Ontario Centre of Excellence. Yang VXD. ($190,000.00, 2013 - 2014).


Honours Received

Mainprize T: Dr. Tile Distinguished Service Award, Sunnybrook Health Sciences Centre, Dept of Surgery, Faculty of Medicine, Ontario, Canada. May 2014 - May 2015.

Phan N: S.E.A.D Certificate of Appreciation, University of Toronto. Neurosurgery, Dept of Surgery, Faculty of Medicine. 2013
Division of Orthopaedics

Dr. M. Akens  
Assistant Professor

Dr. T.S. Axelrod  
Professor

Dr. H.U. Cameron  
Associate Professor

Dr. J.C. Cameron  
Assistant Professor

Dr. J.A. Finkelstein  
Assistant Professor

Dr. J. Gollish  
Assistant Professor

Dr. R. Holtby  
Assistant Professor

Dr. R. Jenkinson  
Lecturer

Dr. H.J. Kreder  
Professor (Division Head)

Dr. B. Maki  
Professor

Dr. P. Marks  
Associate Professor

Dr. J.J. Murnaghan  
Associate Professor

Dr. D. Nam  
Associate Professor

Dr. M. Nousiainen  
Professor

Dr. R.R. Richards  
Professor

Dr. J.G. Stephen  
Professor

Dr. V.M.R. Wadey  
Associate Professor

Dr. C. Whyne  
Associate Professor

Dr. C.S. Wright  
Associate Professor

Dr. A. Yee  
Associate Professor

Publications


Herblum R, Beek M, Whyne CM. µFEA successfully exhibits higher stresses and strains in microdamaged regions of whole vertebrae. J Orthop Res. 2013 Oct 31;10(10): 1653-60


Orthopaedic Trauma. 2013 Dec 24.


Murphy R, Laporte D, Wadey V. Original Title: Undergraduate Musculoskeletal Medical Education New Proposed Title: Musculoskeletal Education in Medical School: Deficits in knowledge and strategies for improvement. JBJS-D-14-00354R1. 2014 Jun.


Presentations and Special Lectures


Kreder HJ: AO Trauma, Current Concepts Course on Periprosthetic Fractures, Davos, Graubünden (de), Switzerland, 1-12 Dec 2013. Invited Speaker: 1/ Useful Techniques in the Management of Periprosthetic Fractures: Strut Grafts - Biology, When and How to Apply Lecture aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the lower extremity. 2/ Management of Complex Periprosthetic Fractures: Case Discussion Case discussion of complex periprosthetic cases aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the lower extremity. 3/ Principles of Management of Proximal Femur Periprosthetic Fractures: When to do What Lecture aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the femur. 4/ Useful Techniques in the Management of Periprosthetic Fractures: Strut Grafts - Biology, When and How to Apply Lecture aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the lower extremity. 5/ Principles of Management of Proximal Femur Periprosthetic Fractures: When to do What Lecture aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the femur. 6/ Management of Complex Periprosthetic Fractures: Case Discussion Case discussion of complex periprosthetic cases aimed at practicing surgeons from around the world to advance understanding and management of periprosthetic fractures of the lower extremity. 7/ Surgical Approaches and Fixation in Acetabular Fractures and Pelvic Ring Injuries Case based review of surgical approaches to the pelvis and acetabulum. 8/ Iliosacral Screw Fixation in Pelvic Ring Injury Advanced concepts in the use of iliosacral screw fixation for pelvic ring injuries. 9/ Acetabular and Pelvic Fracture Management Surgeons participating in this course will learn how to address the severely injured patient in an emergency situation. They will learn how to evaluate, diagnose, and classify pelvic ring and acetabular injuries, and determine appropriate timing and indications for interventions. They will be able to apply knowledge in choosing how to surgically approach specific injuries and how to definitively reconstruct complex fractures. 10/ Decision Making in Pelvic Ring Injury
The learning objectives are to: understand the anatomy of pelvic ring injuries, appropriate emergency, urgent and definitive fixation parameters, techniques and outcome evaluation. 1/ Anatomy, Classification and Emergency Treatment of Pelvic Ring Injuries Moderator of pelvic ring session.


Kreder HJ: Calgary Trauma Summit, Calgary, Alberta, Canada, 6-7 Feb 2014. Invited Lecturer. 1/ Vancouver type B2 and B3 periprosthetic fractures: Principles of management. A discussion of advanced concepts of identifying and managing patients with periprosthetic fractures. 2/ Locking Compression Plates: The good, the bad and the ugly A lecture on advanced concepts of fracture fixation and how to best use the locking compression plate construct.

Kreder HJ: 15th EFORT Congress, United Kingdom, Jun 2014. A prospective randomized trial investigating the effect of the reamer irrigator-aspirator (RIA) on the volume of embolic load and respiratory functions during intramedullary nailing of femoral shaft fractures.

Maki BE: International Conference on Fall Protection and Prevention, Tokyo, Japan, Oct 2013. Age-related effects of varying step geometry and biomechanical falls risk during stair descent.


Nousiainen M: Northern Ontario School of Medicine, Thunder Bay, Ontario, Canada, 14 Sep 2013. Invited Speaker: An Update on the Comptency Based Curriculum in the Division of Orthopaedic Surgery at the University of Toronto and Developing Assessment Tools for the Evaluation of Trainee Competencies presentation during a 2-hour faculty development retreat on Competency-Based Residency Training.


Nousiainen M: Department of Orthopaedic Surgery, University of California, Irvine, Orange, California, United States, 6 Mar 2014. Visiting Professor: Am I a Competent Surgeon? Competency Based Medical Education & an Update on U of T's CBC Program.


Nousiainen M: Department of Anesthesia, University of Ottawa, Ottawa, Ontario, Canada, 26 Mar 2014. Visiting Professor: 1/ Am I a Competent Surgeon? Competency Based Medical Education & an Update on U of T’s CBC Program. 2/ Fellowship Education: where are we at and is improvement required?


Lab Session: Distal femur periprosthetic fractures.

**Stephen DJG:** AO Trauma Course - Acetabular and Fracture Management, Davos, Switzerland, Dec 2013. Invited Speaker: Approaches and fixation options - sacroiliac joint dislocations and fracture dislocations.

**Stephen DJG:** AO North America, Las Vegas, Nevada, United States, 24-26 Jan 2014. Invited Speaker: 1/ Foot Cadaveric Dissection; Foot Exploration, Ankle/Pilon Cadaveric Dissection; Ankle/Pilon Exploration. 2/ Hip/anterior acetabulum cadaveric dissection; hip/anterior acetabulum reduction techniques. 3/ Shoulder Cadaveric Dissection; Shoulder Reduction Techniques; Arm/Elbow Cadaveric Dissection; Arm/Elbow Reduction Techniques; Elbow/Forearm case presentation; Elbow/Forearm Cadaveric Dissection and reduction Techniques; Hip cadaveric dissection and hip reduction techniques.


**Stephen DJG:** AO North America, Miami, Florida, United States, 24-25 Apr 2014. Invited Speaker: 1/ Malunions proximal femoral malunion AOTNA Trauma Solutions Course. 2/ Osteoporotic fractures proximal tibia AOTNA Trauma Solutions Course.

**Stephen DJG:** Canadian Orthopaedic Foot and Ankle 2014 Annual Symposium, Toronto, Ontario, Canada, 12 Apr 2014. Invited Speaker: 1/ Lisfranc joint injury - when to fix and when to fuse? 2/ Advancements in managing the pilon fracture.

**Yee A:** University of California Irvine, New Port Beach, California, California, United States, 29 Aug 2013. Invited Lecturer: Lessons Learnt in Spine Oncology: Clinical Perspectives and Translational Research Opportunities for the Future.

**Yee A:** AO North America and AOSpine North America, Toronto, Ontario, Canada, 1 Nov 2013. Invited Lecturer: Thoracolumbar Spine Trauma Classification and Management AONeuro Course - Management of Traumatic Brain and Spinal Cord Injuries -- presentation of didactic lecture on thoracolumbar spine trauma and also participating as faculty in case based discussion amongst course participants.

**Yee A:** Canada and The United States Bone and Joint Decade: Young Investigators Initiative. Toronto, Ontario, 8-10 Nov 2013. Faculty Mentor: Faculty Mentor and Canadian Course Representative for Fall 2014 Workshop.


**Yee A:** Canada and The United States Bone and Joint Decade: Young Investigators Initiative, Chicago, Illinois, United States, 17-18 May 2014. Faculty Mentor: Faculty Mentor and Canadian Course Representative for Spring 2014 Workshop.

**Research and Investigations**

*All Arthroscopic or Mini-open Repair of a Rotator Cuff Tear. Canadian Institutes of Health Research (CIHR).* MacDermid JC, Holtby R, Razmjou H, JOINTS Canada. ($608,555.00 CAD, Jan 2007 - present).


Immediate weight-bearing versus non-weightbearing and immobilization after ORIF of unstable ankle fractures. Canadian Orthopaedic Trauma Society (COTS). Dehghan N, Jenkinson RJ. ($6,000.00 CAD, Jan 2012 - Jan 2014).

Implications of pathologic changes to bone material properties on the skeletal stability of the metastatic spine. Canadian Institutes of Health Research. Whyne CM, Yee A, Willett T, Akens M, Barzda V, Boyd D, Grynpas M, Kiss A, Niebur G, Sone E. ($100,000.00 CAD, Oct 2012 - Sep 2013).

Implications of pathological changes to bone material properties on the skeletal stability of metastatic spine. Canadian Institutes of Health Research (CIHR). Whyne CM; Yee AJ. Willett T. ($720,465.00 CAD, Apr 2013 - Mar 2018).


Multi-resolution modeling of thin bone structures in the human skeleton. NSERC. Whyne C. ($245,000.00 CAD, Apr 2011 - Mar 2015).


Orthopaedic Personal Research Funding. Whyne CM, McLauchlin S. ($45,000.00 CAD, 2013 - 2015).


The novel characterization of IL-17F activation in fracture repair. Canadian Institutes of Health Research (CIHR). Nam D, Anderson M. ($569,278.00 CAD, Sep 2013 - Aug 2017).


Training Tibial Nail Distal Locking Screw Insertion Skills to Surgical Trainees: Sureshot Technology Versus Conventional Fluoroscopic Technique. Smith and Nephew Inc. (Memphis, TN, USA). Nousiainen M. ($45,000.00 CAD, 2012 - present).


Honours Received
Cameron JC: Thomas R. Loudon Award, University of Toronto. Honouring Outstanding Services in the Advancement of Athletics. Jun 2014.


Nousiainen M: Ivan Silver Innovation Award, Continuing Professional Development, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada. Mar 2014.

Division of Plastic and Reconstructive Surgery

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<tr>
<th>Dr. O.M. Antonyshyn</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. P. Binhammer</td>
<td>Assistant Professor (Division Head)</td>
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<tr>
<td>Dr. R. Cartotto</td>
<td>Associate Professor</td>
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<td>Dr. M. Dibildox</td>
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<td>Dr. J.A. Fialkov</td>
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<th>Dr. M. Gomez</th>
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<td>Dr. M.G. Jeschke</td>
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<td>Dr. J.E. Lipa</td>
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<td>Dr. S. Shahrokhi</td>
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<td>Dr. L. Snell</td>
<td>Assistant Professor</td>
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Publications


Austin R, Shahrokhi S, Bolourani S, Jeschke MG. Peripherally Inserted Central Venous Catheters In Burn Care: Are They As Safe As We Think? Journal of Burn Care and Research. 2014 Jun.


Jeschke MG, Finnerty CC, Kulp GA, Kraft R, Herndon DN. Can we use C-reactive protein levels to predict severe infection or sepsis in severely burned patients? Int J Burns Trauma. 2013 Jul 8;3(3):137-43.


Invited Visits


Cartotto R: Canadian Society of Plastic Surgeons, Montreal, Quebec, Canada, 28 Jun 2014. Invited Speaker: Burn Care in Canada - An Update.


Jeschke MG: Sainte-Justine Hospital, Montreal, Quebec, Canada, Nov 2013. Invited Lecturer: Pulmonary management in the pediatric burn patient including inhalation injury and intoxication.


Jeschke MG: 46 th Annual Meeting of the American Burn Association, Boston, Massachusetts, United States, Mar 2014. Presenter: 1/ Hyperglycemia differentially regulates various cytokine production from macrophages. 2/ Can you save both money and time? A comparison of a biosynthetic dressing and cadaveric allograft in acute burn management. 3/ Peripherally inserted central venous catheters in the burn unit: are they as safe as we think? 4/ Healthcare costs of burn patients from homes without fire sprinklers. 5/ Deficient recruitment of progenitor cells into the skin of old mice contributes to delayed cutaneous healing post thermal injury.


Grants, Contracts and Clinical Trials

Burn-associated hypermetabolism and hepatic dysfunction are triggered and augmented by adipose tissue inflammation. CIHR, Operating Grant. Jeschke M. ($688,380.00 CAD, Apr 2013 - Mar 2017).


Leader's Opportunity Fund. Canada Foundation for Innovation (CFI). Jeschke MG. ($1,100,000.00 CAD, 2010 - 2015).


Honours and Awards

Gomez M: Chief Public Safety Officer’s Special Recognition Award, Electrical Safety Authority, Mississauga, Ontario, Canada. Sep 2013.


Division of Urology

Dr. L.K. Carr
Associate Professor
Dr. S. Herschorn
Professor
Dr. L. Klotz
Professor

Dr. R.T. Kodama
Professor
Dr. R.K. Nam
Associate Professor (Division Head)
Dr. V. Venkateswaran
Associate Professor

Publications


Mora BC, Fleshner NE, Klotz LH, Venkateswaran V. The Effects of Serum from Prostate Cancer Patients with Elevated Body Mass Index on Prostate Cancer Cells In Vitro. Journal of Urology. 2014.


Presentations and Special Lectures


Carr LK: Canadian Urological Association, St. John’s, Newfoundland and Labrador, Canada, 28 Jun 2014. Lecturer: Botox Symposium at the CUA Meeting.


Nam RK: Singapore General Hospital, Department of Urology, Singapore, 16 Mar 2014. Invited Speaker: Complications of Treatment for Prostate Cancer.

Grants, Contracts and Clinical Trials


A Phase 2, Randomized Controlled Study of a Novelle Anti-Inflammatory for Interstitial Cystitis/Bladder Pain Syndrome. Aquinox. Carr LK. ($25,000.00 CAD, Jul 2013 - Jun 2014).

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. ($1,262,636.00 CAD, Nov 2011 - Dec 2016).


Honours and Awards


Klotz L: Lister Prize, Department of Surgery, University of Toronto. May 2014 - Jul 2014.
Division of Vascular Surgery

Dr. A. Dueck  
Dr. D. Kucey  
Assistant Professor (Division Head)  
Assistant Professor

Dr. R. Maggisano  
Dr. G. Papia  
Associate Professor  
Assistant Professor

Publications


Invited Visits


Research and Investigations


Our Department vision is simple: We want Toronto East General Hospital (TEGH) to be the best place for our patients, friends and family to get excellent surgical care. If we are unable to 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 and the best place for learners to obtain surgical training in Toronto.

The Department of Surgery at TEGH has 4 core divisions and this past year has been a very active year for all divisions.

The Division of Urology continues to expand its robotic prostate surgery program with a partnership with Sunnybrook Health Sciences Centre. Dr. Rajiv Singal and Dr. John Kell helped orchestrate a unique surgical partnership that will undoubtedly serve as a template for future inter-hospital collaborations within Ontario. Dr. S. Herschorn and Dr. L. Klotz - staff urologists from Sunnybrook Health Sciences Centre - are cross-appointed at TEGH and perform robotic prostatectomies at our organization. Dr. Ryan Groll has helped develop the electronic medical record for cystoscopy as part of a provincial initiative. Dr. Singal continues to advance the use of social media in education in urology and has for the first-time ever enlisted American urologists to the TEGH Movember Team. Dr. Singal was promoted to Assistant Professor at the University of Toronto this academic year.

The Division of General Surgery is recognized as a leader in education at the University of Toronto. Dr. Paul Bernick is the Head of the Division and continues to support the strong education mandate of the Division. Once again, the Division of General Surgery at TEGH has been recognized as a leader in education of surgical and family medicine residents by the University of Toronto. Dr. Jamie Cyriac and Dr. Mary-Anne Aarts have been instrumental in the maintenance of our bariatric surgery program. Mary-Anne is our site lead for launching the Enhanced Recovery after Surgery (ERAS) initiative at TEGH.

Under the leadership of Dr. Robert Zeldin our Level I thoracic surgery program continues to grow providing services at multiple sites - the Odette Cancer Centre at Sunnybrook Health Sciences Centre, North York General Hospital and Royal Victoria Hospital in Barrie – the only program in the province able to deliver Level I care to such a large geographic area. Dr. Najib Safieddine is completing the University of Toronto New and Emerging Academic Leaders (NEAL) Program – the first for our Department.

The Division of Plastic and Reconstructive Surgery under the leadership of Dr. Linda Dvali continues to develop 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 (along with Dr. Karen Devon at Women’s College Hospital) has launched the University of Toronto Book Club, featuring educational and inspirational readings for all members of the University program.

The Division of Orthopedic Surgery continues to demonstrate leadership in education and value for service. Dr. Peter Weiler and his Division have been able to realize a 40% reduction in LOS in our joint replacement patients as part of the QBP initiative set out by the MOH. Dr. Frank Mastrogiacomo and Dr. Paul Wong are once again recognized as outstanding resident and fellow teachers.

The TEGH Department of Surgery is still one of the most popular destinations for surgical learners at the University of Toronto. 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 residents for 2013 was 17.19 (University mean = 16.90). Of note, the Division of Orthopedics was the highest ranked division by orthopedic surgery trainees at the University of Toronto. Dr. J. Cyriac was the highest ranked teacher in our Department with a TES of 18.60 (7th in the University of Toronto Department of Surgery program). A total of 22 of the 24 active staff in our department have university appointments and 18 of the 24 report that teaching residents occurs daily within their practice.
Dr. Robert Zeldin has developed a core PGY3 general surgery rotation for University of Toronto learners as a pilot project in 2012-2013. It has been extremely popular and has now been extended. TEGH Department of Anesthesia has established a core thoracic anesthesia rotation for PGY5 anesthesia residents that serves as an example of the collaborative spirit of our Health Service members.

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.

We have met, and exceeded, our target for volume of lung and esophageal cancer cases. We have noted a reduction in the number of colon cancer and breast cancer cases. As a result, the Department of Surgery, Department of Medicine (Division of Medical Oncology and Gastroenterology), Departments of DI and Pathology and senior administration collaborated to realize the Colon Diagnostic Assessment Program and the Breast Diagnostic Clinic. Our surgical oncology program continues to be a major focus for our Department.

The Thoracic Surgery program continues to be a major oncology focus for the organization. With strong collaborations with our Division of Medical Oncology and Respirology, and our partnerships with Odette Cancer Centre, North York General Hospital, Royal Victoria Hospital and the University of Toronto Division of Thoracic Surgery, the TEGH Thoracic Program is recognized as a shining example of collaborative, multidisciplinary, inter-hospital care providing exceptional service to the largest geographic area in the province.

Our Department’s focus is in-line with the hospital core vision of setting a new standard in quality and value. We have re-located the endoscopy suite, bronchoscopy suite and recovery rooms, cystoscopy and minor surgery to a separate physical space creating a self-contained “surgicentre”. As a result we have been able to maximize efficiency in staff and equipment thereby driving down our costs and making a “one-stop shop” for patients in our community. Our efforts were recognized by the MOH as “innovative and ground breaking”.

**Challenges for 2014:** We are working in challenging times. Our Department and our organization are both prepared and well positioned to meet these challenges. We are looking forward to working with our administrative partners and the University of Toronto to once again deliver a balanced budget without compromising service to our community or educational opportunities to our learners.

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**General Surgery**

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

| Dr. N. Safieddine | Lecturer |
| Dr. H. Sawires | Lecturer |
| Dr. C. Simone | Lecturer |
| Dr. R. Zeldin | Assistant Professor |
Orthopaedic Surgery

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

Publications


Research and Investigations

It's more than competency-based education, it's radical curricular reform: a prescription for a new model of residency education. MOHLTC. Reznick R, Kraemer W, Ferguson P, Alman B, Safir O, Sonnadara R. ($1,700,000 2009 - 2013.)

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

Urology

Dr. R. Groll  Lecturer  
Dr. R.K. Singal  Assistant Professor  
Dr. P. Vlavian  Lecturer

Publications

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

Research and Investigations


Randomized Control Double Blind trial comparing Dutasteride vs Placebo in Patients with early Prostate Cancer undergoing watchful waiting. AVO Study. Singal V. (2006-Present)
The Division of Cardiovascular Surgery at the Peter Munk Cardiac Center continues to enjoy strong growth in its clinical and academic programs. The recruitment of Dr. Maral Ouzounian in July 2013 strengthened our multidisciplinary approach to thoracic aortic disease. In 2014, we look forward to the addition of two new surgical recruits. Dr. William Stansfield is a graduate of the University of North Carolina surgical training program and will augment our advanced heart failure team and participate in our minimally invasive surgery program. He is appointed as a Surgical-Scientist and his research interests focus on the molecular changes that occur in cardiac tissue during certain types of ventricular remodeling. Dr. Mitesh Badiwala is a graduate of our training program and recently completed an advanced fellowship in valvular repair under Dr. Patrick McCarthy at Northwestern University in Chicago. He will assume a leadership role in our cardiac transplant program and expand our current efforts into minimally invasive mitral and aortic valve surgery. His appointment as a Surgeon-Investigator will allow him to develop ex-vivo cardiac perfusion for cardiac transplant. The Advanced Heart Failure and LVAD team continues to enjoy international recognition and were selected as one of 8 worldwide sites to participate in the launch of the new HeartMate 3 left ventricular assist device. The Division's basic science efforts are strongly represented by Drs. Ren Ke 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. Dr Richard Weisel has been appointed Editor in Chief of the premier journal in cardiothoracic surgery - Journal of Thoracic and Cardiovascular Surgery. 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 of the Trillium Gift of Life Network (Dr. Vivek Rao). Dr. Hugh Scully serves as a Canadian 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**

| S. Brister, MD | R. Weisel, MD |
| A. Ralph-Edwards, MD | C. Feindel, MD |
| R.J. Cusimano, MD | T. Yau, MD |
| V. Rao, MD | M. Ouzounian, MD |

It has been a very successful year from a clinical, teaching, and research perspective in the Division of General Surgery with several notable accomplishments. A number of Faculty members were recipients of prestigious awards; Paul Greig received the Francis Moore Excellence in Mentorship in the Field of Transplantation Surgery Award by the American Society of Transplant Surgeons. Fayez Quereshy and Michael Reedijk were both recipients of a Wightman-Berris Academy Individual Teaching Excellence Award. Timothy Jackson received the Frank Mills Award for Excellence in Teaching by a General Surgery Faculty Member. Catherine O’Brien received the Associated
In the past academic year, members of the Division of General Surgery and Canadian Association of General Surgeons Langer Lecturer in September, 2013. The Peter Crossgrove Lecture was presented by Dr. Charles Balch from the University of Texas Southwestern Medical Center in June 2014.

Sean Cleary was promoted to Associate Professor. Anand Ghanekar was appointed as co-Director of the UHN Kidney Transplant Program. Steve Gallinger was appointed by the Ontario Institute for Cancer Research as the Leader of the PanCuRx Translational Research Initiative (TRI). Alice Wei was appointed Vice-President, and Timothy Jackson Secretary of the Ontario Association of General Surgeons. Sean Cleary, Tulin Cil, and Todd Penner were appointed as General Surgery Postgraduate Education Site Coordinators for the Toronto General, Princess Margaret, and Toronto Western sites respectively.

Faculty members were very successful with grant capture. Notably, those successful in obtaining CIHR Operating Grants include David Urbach for his project on “The inference from observational research methods (INFORM) Project”, and Ian McGilvray for his project on “Nanoparticle targeting of the liver”. Other research highlights include Catherine O’Brien’s publication in Nature Medicine titled “Self-renewal as a therapeutic target in human colorectal cancer”, David Urbach’s publication in the New England Journal of Medicine titled “Introduction of surgical safety checklists in Ontario, Canada”, and Carol-Anne Moulton and Steve Gallinger’s publication in JAMA titled “Effect of PET before liver resection on surgical management”.

Several new clinical initiatives were started. An Acute Care Surgical Service was created at the Toronto General Hospital. The colorectal cancer program saw the launch of our Rapid Diagnostic Assessment Program developed by Fayez Quereshy, Timothy Jackson completed full implementation of the National Surgical Quality Improvement Program (NSQIP) across all sites.

**Division Of Neurosurgery**

| M. Bernstein, MD | C. Tator, MD |
| E. Massicotte, MD | S. Kalia, MD |
| M. Fehlings, MD | M. Tymianski, MD |
| I. Radovanovic, MD | P. Kongkham, MD |
| F. Gentili, MD | T. Valiante, MD |
| M. Shamji, MD | A. Lozano, MD |
| M. Hodaie, MD | G. Zadeh, MD |

In the past academic year, members of the Division of Neurosurgery at UHN has published in excess of 160 academic papers in peer review journals, including Juan C. Fernandez-Miranda, University of Pittsburgh; Sebastien Froelich, Hôpital Lariboisière, Paris; Franco De Monte, MD Anderson Cancer Center.

Among the highlights of key accomplishments by individual faculty (alphabetically):

- Dr. Mark Bernstein was honoured in the Senate of Canada on March 26, 2014 in recognition of his humanitarian work helping those less fortunate in developing countries
- Dr. Karen Davis was awarded the Mel Silverman Mentorship Award by the Institute of Medical Science (IMS) at the University of Toronto.
- Dr. Michael Fehlings was appointed as Vice Chair Research in the Department of Surgery at the University of Toronto. He was also elected as a Fellow of the Royal Society of Canada and to the Canadian Academy of Health Sciences (CAHS) due to his exceptional academic achievements.
- Dr. Fred Gentili was appointed as the Alan and Susan Hudson Chair in Neuro-Oncology at the University Health Network.
- Dr. Mojgan Hodaie became the Canadian lead of the Genetics of Trigeminal Neuralgia, a multicenter study spearheaded by OHSU, Oregon Health and Science University.
- Dr. Suneil Kalia was welcomed as the newest member of the Neurosurgical Faculty at Toronto Western Hospital as of September 1, 2013.
- Dr. Andres Lozano was appointed to the rank of University Professor, the most prestigious and distinguished rank at the University of Toronto. He was also identified by Thomson Reuters Essential Science Indicators as the most highly cited neurosurgeon in the world for the decade spanning 2002 to 2012. He was awarded the 2013 Margolese National Prize in Brain Disorders, awarded to a Canadian who has transformed care in heart and brain diseases and the 2014 Canadian College of Neuropsychopharmacology (CCNP) Innovations Award.
- Dr. Mohammed Shamji received the Canadian Pain Society Early Career Investigator Research Grant, was advanced to the Canadian Spine Society executive board and Lumbar Spine Research Society education committee, and joined the PLOS One Editorial Board.
- Dr. Charles Tator delivered the inaugural Charles Tator Honorary Lectureship on Spinal Trauma at the Annual Scientific meeting of the American Association of Neurological Surgeons (AANS) in San Francisco. The Marion and Gerald Soloway Chair in Brain Injury and Concussion Research at Toronto Western Hospital/University Health Network was announced by Charles Tator at a special event on May 28, 2014.
- Dr. Michael Tymianski’s FRONTIER trial, a pivotal multi-center Phase 3 trial evaluating NA-1 for the treatment of acute ischemic stroke received approval...
Agnes Wisniewski has joined the team. She will play a key role in day-to-day clinical contact with patients, liaise between the various surgeons, educate patients through workshops and group sessions, and recruit patients for research studies. Dr. Bryan Chung, MD, PhD joined the Hand Program at the Toronto Western Hospital in July 2014. He has a PhD in Medical Science (Joint Injury and Arthritis) from the University of Calgary where he also completed Medical School. The 12th Annual Ralph T. Manktelow Hand Symposium was held in October 2013 at the Toronto Western Hospital. Dr. Hofer attended Breast Reconstruction Awareness (BRA) event which was held in October 2013 at Roy Thomson Hall and Dr. Zhong presented at the Breast Reconstruction Awareness (BRA) event, “An Evening of Education and Empowerment”. The University of Toronto Resident Research Day was held in February 2014 at the Peter Gilgan Centre for Research and Learning, Hospital for Sick Children. Dr. Zhong hosted a patient panel on the Realities of Reconstruction: A complex choice, The Scar Project in April 2014 an event for the Rethink Breast Cancer Breast Fest. The Division has initiated a new basic science collaboration under direction of Dr. Anne O’Neill investigating adipose derived stem cell interactions with the Keating Lab, Cell Therapy Program at the Princess Margaret Cancer Centre. Dr. Zhong was appointed by Cancer Care Ontario as the Provincial Clinical Lead to establish Standardized Provincial Post mastectomy Breast Reconstruction (PMBR) Clinical Guidelines. Dr. Zhong was nominated for the Gerald Kirsh Humanitarian Award, Princess Margaret Cancer Centre. Dr. William Townley and Dr. Donald Buck successfully completed the Microsurgical Fellowship. Dr. Udi Arad and Tatiana Cypel successfully completed the Breast Reconstruction Surgery Fellowship Program. During the 2013 – 2014 academic year, division members and trainees have published [20] peer-reviewed papers, presented [24] scientific papers and participated in [12] invited lectures at the following international Meetings: The Barcelona Breast Meeting, Spain; the World Society for Reconstructive Microsurgery Biannual Meeting in Chicago, US; the Dusseldorf Breast Meeting, Germany; The American Society of Plastic Surgeons (ASPS); The American Society for Reconstructive Microsurgery (ASRM) Annual Meeting in Kauai, Hawaii.

**Division Of Orthopedic Surgery**

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<th>R. Davey, MD</th>
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<td>W. Marshall, MD</td>
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<td>R. Gandhi, MD</td>
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<td>D. Ogilvie-Harris, MD</td>
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<td>J. Lau, MD</td>
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Last year was a very successful year for the Division of Orthopaedic Surgery. We recruited Dr. Andrea Veljkovic, a new foot and ankle surgeon who will focus on complex minimally invasive foot and ankle procedures. We recruited Dr. Mohit Kapoor a basic scientist whose research focuses on cartilage biology. Mohit joined our new Buchan Arthritis Centre in the Krembil Discovery Tower that opened last fall. Under the leadership of Dr. Raj Rampersaud, the ISEAC (Interdisciplinary Spine Assessment Centre) project showed that the new model of care for spine patients was delivering excellent care with improved access. Dr. Christian Veillette has developed and implemented the point of care patient outcomes IT infrastructure across the Division and is currently integrating it with the Rheumatolgy databases. Dr. Johnny Lau co-developed a new ankle replacement system that was introduced clinically across North America last year. We also successfully hosted our second annual Academic Advisory Board meeting (Fall 2013) and the Industry Advisory Forum (Spring 2014). Finally, the Division successfully reached the target of raising $35 million in the Campaign to Cure Arthritis. In the following year we will work towards initiating Canada’s first stem cell trail for the treatment of osteoarthritis.

**Division Of Plastic Surgery**

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<th>J. Ahmad, MD</th>
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<td>S. McCabe, MD</td>
<td>B. Graham, MD</td>
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<td>D. Anastakis, MD</td>
<td>T. Zhong, MD</td>
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<td>A. O’Neil, MD</td>
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A Breast Reconstruction Clinical Nurse Coordinator – Agnes Wisniewski has joined the team. She will play a key role in day-to-day clinical contact with patients, liaise with the various surgeons, educate patients through workshops and group sessions, and recruit patients for research studies. Dr. Bryan Chung, MD, PhD joined the Hand Program at the Toronto Western Hospital in July 2014. He has a PhD in Medical Science (Joint Injury and Arthritis) from the University of Calgary where he also completed Medical School. The 12th Annual Ralph T. Manktelow Hand Symposium was held in October 2013 at the Toronto Western Hospital. Dr. Hofer attended Breast Reconstruction Awareness (BRA) event which was held in October 2013 at Roy Thomson Hall and Dr. Zhong presented at the Breast Reconstruction Awareness (BRA) event, “An Evening of Education and Empowerment”. The University of Toronto Resident Research Day was held in February 2014 at the Peter Gilgan Centre for Research and Learning, Hospital for Sick Children. Dr. Zhong hosted a patient panel on the Realities of Reconstruction: A complex choice, The Scar Project in April 2014 an event for the Rethink Breast Cancer Breast Fest. The Division has initiated a new basic science collaboration under direction of Dr. Anne O’Neill investigating adipose derived stem cell interactions with the Keating Lab, Cell Therapy Program at the Princess Margaret Cancer Centre. Dr. Zhong was appointed by Cancer Care Ontario as the Provincial Clinical Lead to establish Standardized Provincial Post mastectomy Breast Reconstruction (PMBR) Clinical Guidelines. Dr. Zhong was nominated for the Gerald Kirsh Humanitarian Award, Princess Margaret Cancer Centre. Dr. William Townley and Dr. Donald Buck successfully completed the Microsurgical Fellowship. Dr. Udi Arad and Tatiana Cypel successfully completed the Breast Reconstruction Surgery Fellowship Program. During the 2013 – 2014 academic year, division members and trainees have published [20] peer-reviewed papers, presented [24] scientific papers and participated in [12] invited lectures at the following international Meetings: The Barcelona Breast Meeting, Spain; the World Society for Reconstructive Microsurgery Biannual Meeting in Chicago, US; the Dusseldorf Breast Meeting, Germany; The American Society of Plastic Surgeons (ASPS); The American Society for Reconstructive Microsurgery (ASRM) Annual Meeting in Kauai, Hawaii.

**Division Of Thoracic Surgery**

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<th>M. Cypel, MD</th>
<th>M. de Perrot, MD</th>
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<td>A. Pierre, MD</td>
<td>K. Yasufuku, MD</td>
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Dr. Kazuhiro Yasufuku has led the development of a new program to improve the efficiency of management of one of the most common problems in Thoracic Surgery, malignant pleural effusion. This multi-disciplinary program involves respirology, thoracic surgery and nursing and has produced dramatic reduction in in-patient stay for Princess Margaret patients. Drs. Cypel and Keshavjee have achieved stable Ministry of Health funding for the Extra-Corporeal Life Support (ECLS) program, a joint effort with Critical Care and Cardiovascular Surgery to truly create a provincial resource for patients with advanced heart and lung failure. Dr. Marc de Perrot,
along with radiation oncology colleague, Dr. John Cho, have pioneered the use of neoadjuvant radiation in mesothelioma prior to extrapleural pneumonectomy. Dr. Marcelo Cypel was awarded a Premier’s Early Research Award. Notably, Dr. Cypel led the development of a hands-on course in ECLS technology at the Annual Meeting of the American Association for Thoracic Surgery. Dr. Tom Waddell was appointed to the Council of the newly inaugurated Ontario Institute of Regenerative Medicine. Dr. Yasufuku again led the annual EBUS Training Course who also created a Robotic Thoracic surgery hands on course for the AATS and the development of the first pan-Canadian Boot Camp in advanced Thoracic Surgery technology open to any new resident in Thoracic Surgery in Canada. These three training course all occurred in the space of 3 months. Dr. Yasufuku also was recognized at the American Association of Bronchology and Interventional Pulmonology, Fall Scientific Symposium, 2013 in Chicago where he received the Geoffrey McLennan Memorial Award, and had a paper receive the “Most Intriguing” Award.

Teaching awards were awarded to Dr. Gail Darling (Gail E. Darling Award for Excellence in Undergraduate Teaching and Tom Waddell (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching). Dr. Pedro Reck dos Santos won the F. Griffith Pearson Award for Best Resident/Fellow Teacher.

Visiting Professors for 2013-14 academic year were: Benjamin Kozower (University of Virginia, Charlottesville, Virginia) and Dr Gunda Leschber (Berlin Chest Hospital, Berlin, Germany). Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2014 and included the following Visiting Faculty: Paul De Leyn (University Hospital, Leuven, Belgium), Thierry Le Chevalier (Institute Gustav Roussy, Paris, France), Steve Cassivi (Mayo Clinic, Rochester, Minnesota), and Michael Humer (Kelowna General Hospital, Kelown, BC).

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. Bryan Meyers from Washington University in St. Louis. Dr. Tiago Machuca won the Award for Best Clinical Research paper and Dr. Jonathan Yeung won the Best Basic Science Research Award.

Division Of Urology

D. Elterman, MD  M. Jewett, MD  A. Finelli, MD  G. Kulkarni, MD  N. Fleshner, MD  S. Radomski, MD  M. Hassouna, MD  M. Robinette, MD  R. Hamilton, MD  J. Trachtenberg, MD

The Division of Urology had a banner year in terms of academic achievement. Our clinical programs continue to grow particularly in the realms of preventative care, survivorship and innovative surgery. The DaVinci surgical robot has now been expanded to kidney and bladder cancer surgery. Dr Dean Elterman will lead our novel Men’s Health program and has a clinical and academic interest in men’s health, incontinence and neuromodulation. In total over, 60 peer reviewed publications and 7 peer-reviewed grants were procured by our group. Our visiting professors were world class and included: Drs Dean Assimos, John Denstedt, Jack Baniel and Joel Nelson. Our annual Princess Margaret Uro-Oncology Dialogue meeting in Niagara-on-the-Lake was a roaring success with almost 100 Ontario-based guests and has emerged as one of Canada’s premiere Uro-Oncology meetings. Finally Dr Yona Krakowsky, one of our residents was awarded with a Sopman award for his commitment to ethical and humanistic patient care.

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

Vascular surgery has had another successful academic year. Highlights include Dr. George Oreopoulos winning the Surgical Skills Centre Distinguished Educator Award at Gallie Day 2014. The Division registered its thousandth case in the US based SVS VQI quality project and successfully leveraged this data to improve length of stay in standard EVAR cases. Two new vascular surgeons have been recruited Drs. Forbes and Byrne who are due to start in fall 2014. Dr. Lindsay has competed an eleven year term as the University Division chair and will be replaced by Dr. Forbes. The CSVS Gore Research Award was won by Dr. Roche-Nagle for a project titled “The therapeutic and prognostic value of perfusion angiography with indocyanine green fluorescence in patients with critical ischemia.” Two student supervised by Dr. Roche-Nagle were awarded 2013 CSVS National Student Research Awards: Oliver Alying “Peripheral nerve blocks after lower limb amputations” and Nicholas Bowers. “Using a multimedia presentation to improve patient understanding and satisfaction with informed consent for minimally invasive vascular procedures: a prospective randomized trial”.

Division Of Urology

D. Elterman, MD  M. Jewett, MD  A. Finelli, MD  G. Kulkarni, MD  N. Fleshner, MD  S. Radomski, MD  M. Hassouna, MD  M. Robinette, MD  R. Hamilton, MD  J. Trachtenberg, MD

The Division of Urology had a banner year in terms of academic achievement. Our clinical programs continue to grow particularly in the realms of preventative care, survivorship and innovative surgery. The DaVinci surgical robot has now been expanded to kidney and bladder cancer surgery. Dr Dean Elterman joined our faculty.

Based at the Toronto Western Site, Dr Elterman will lead our novel Men’s Health program and has a clinical and academic interest in men’s health, incontinence and neuromodulation. In total over, 60 peer reviewed publications and 7 peer-reviewed grants were procured by our group. Our visiting professors were world class and included: Drs Dean Assimos, John Denstedt, Jack Baniel and Joel Nelson. Our annual Princess Margaret Uro-Oncology Dialogue meeting in Niagara-on-the-Lake was a roaring success with almost 100 Ontario-based guests and has emerged as one of Canada’s premiere Uro-Oncology meetings. Finally Dr Yona Krakowsky, one of our residents was awarded with a Sopman award for his commitment to ethical and humanistic patient care.
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. M. Ouzounian  
Assistant Professor

Dr. A. Ralph-Edwards  
Lecturer

Dr. V. Rao  
Professor (Division Head)

Dr. R. Weisel  
Professor

Dr. T. Yau  
Professor

Publications


Fredericks S, Yau T. Preparing for a randomized controlled trial: Strategies to optimize the design of a cardiovascular surgical patient education intervention. Applied Nursing Research. 2013 Nov.


Shahzad U, Yau TM. Stem cell therapy in cardiac regeneration. IMS Magazine. 2013.


Invited Visits

Cusimano RJ: 1st Affiliated Hospital. Weihui City, Xinjiang, China.2013 Sep 16-17. Invited Lecturer: 1/ Cardiac reconstruction-lessions learned from cardiac tumors. 2/ Medical School Curriculum learning in Canada

David TE: 61st Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Gold Coast, Queensland, Australia, 9-10 Aug 2013. 1/ Speaker: The Ross procedure: when should it be done if ever. 2/ Victor Chang Memorial Lecturer: Surgical management of aortic valve disease. 3/ Lecturer: Long term outcomes of myxomatous mitral valve repair.


David TE: Piedmont Heart Institute, Atlanta, GA, United States, 5 Feb 2014. Mark E. Silverman Visiting Professor: Creativity in Medicine.


David TE: Loyola University Medical Center, Chicago, IL, United States, 13 Mar 2014. Visiting Professor: Matching the patient to the type and size of prosthetic valve for aortic aortic valve replacement.


David TE: University of Ottawa Heart Institute, Ottawa, Ontario, Canada, 2 Jun 2014. Visiting Professor: Aortic valve sparing operations to treat aortic root aneurysm.
David TE: Northwestern University, Chicago, IL, United States, 27 Jun 2014. Visiting Professor: Treatment of aortic root aneurysms: when to intervene, what to do and what to expect as outcome.

Li RK: European Society of Cardiology Congress 2013, Amsterdam, Netherlends, 2 Sep 2013. Invited Speaker: Heart and bone marrow, a two-way relationship.

Li RK: International Academy of Cardiovascular Sciences, University of Manitoba and Hungarian Cardiology Society, University of Pecs: International Symposium for Myocardial Cytoprotection – From Basic S, Pecs, Hungary, 27 Sep 2013. Invited Speaker: Rejuvenated stem cells for cardiac tissue engineering.

Li RK: RUSSIA - NATO Advanced Research Workshop on “Prevention of Free Radical Mediated Cardiovascular Injuries due to Radiation, Chemical and Biological Agents, St. Petersburg, Russian Federation, 3 Oct 2013. 1/ Invited Speaker: Cardiac rejuvenation. 2/ Chair: Symposium session.


Li RK: The Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan, Province Of China, 5 Nov 2013. Visiting Professor: Cell therapy for cardiac regeneration: past, present and future.

Li RK: Huazhong University of Science and Technology, Wuhan, China, 12-15 Nov 2013. Visiting Professor: Stem cell and regenerative medicine (10 hour course).

Li RK: International Stem Cell and Regenerative Medicine Forum, Shanxi Medical University, Taiyuan, China, 16-17 Nov 2013. Invited Speaker: Cell therapy for cardiac regeneration: past, present and future.

Li RK: Physiology Graduate Program Seminar Series – Department of Biomedical and Molecular Sciences, Queen’s University, Kingston, Ontario, Canada, 28 Jan 2014. Invited Speaker: Cardiac Rejuvenation: A new frontier in the management of heart failure.


Weisel R: International Society for Heart Research, San Diego, California, United States, 4 Jul 2013. Presenter: Clinical application of pluripotent stem cells to reverse heart failure.

Yau TM: University of Sao Paulo - University of Toronto Cardiology Symposium, São Paulo, Brazil, 5 Jul 2013. Speaker: 1/ Heart Transplantation and the VAD program at PMCC. 2/ Stem Cell Therapy for Myocardial Repair.

Yau TM: International Society for Heart and Lung Transplantation, San Diego, California, United States, 10 Jan 2014. Invited Lecturer: Dilated Tricuspid Valve Annulus Vs. Tricuspid Regurgitation as a Predictor of Right Ventricular Failure After Left Ventricular Assist Device Implant.

Research and Investigations

Acadesine to reduce perioperative ischemic injury, the RED-CABG Trial. (Executive and Publications Committee). Schering-Plough Research. Yau TM, Weisel R. ($20,000.00 CAD, 2009 - 2013).


Aortic and Valve Laboratory. Rossy Foundation. David T, Li RK, Weisel R. ($250,000.00 CAD, Apr 2012 - Mar 2018).


Clinical Trial of Cardiac Stem Cells. PMCC Innovation Fund. Yau T, Li RK, Weisel R. ($200,000.00 CAD, Jan 2013 - Dec 2015).

Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. Canadian Institutes of Health Research (CIHR). Li RK. ($698,984.00 CAD, Apr 2010 - Mar 2015).


The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates. *Canadian Institutes of Health Research (CIHR).* Yau TM. ($160,000.00 CAD, Sep 2012 - Aug 2013).

Ultrasound-targeted gene delivery to enhance cell engraftment in the aged heart after ischemic injury. (Co-Investigator). *Canadian Institutes of Health Research (CIHR).* Li RK, Weisel R. ($291,680.00 CAD, Apr 2012 - Mar 2015).

**Honours Received**

David TE: Honourary member, Society for Cardiothoracic Surgery in Great Britain and Ireland. 2013

David TE: Honourary member, Society of Cardiology of State of Rio de Janeiro. 2013

**Division of General Surgery**

| Dr. M.S. Cattral | Professor |
| Dr. S.P Cleary | Assistant Professor |
| Dr. J. Escallon | Associate Professor |
| Dr. A. Gagliardi | Professor |
| Dr. S. Gallinger | Associate Professor |
| Dr. A. Ghanekar | Assistant Professor |
| Dr. D. Grant | Professor |
| Dr. P. Grieg | Professor |
| Dr. T. Jackson | Assistant Professor |
| Dr. W.L. Leong | Assistant Professor |
| Dr. D. McCready | Professor |
| Dr. I. McGilvray | Associate Professor |
| Dr. C.A.E. Moulton | Assistant Professor |
| Dr. A. Oktanevic | Assistant Professor (Division Head) |
| Dr. T. Penner | Assistant Professor |
| Dr. F.A. Quereshy | Assistant Professor |
| Dr. M. Reiddijk | Associate Professor |
| Dr. L.E. Rotstein | Professor |
| Dr. M. Selzner | Assistant Professor |
| Dr. R.D. Urbach | Professor |
| Dr. A. Wei | Assistant Professor |

**Publications**


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. Medical care. 2013 Sep 1; 51(9): 797-805.


Presentations and Special Lectures


Grant D: Canadian Liver Transplant Network, Montreal, Quebec, Canada, 2013 Oct 26. Invited Lecturer: Living Donor Liver Transplantation: The University of Toronto Perspective.

Grant D: Addenbrooke’s Hospital, Cambridge, United Kingdom, 2013 Dec 9. Visiting Professor: Living Donor Liver Transplantation: The University of Toronto Perspective.


Greig P: 13th Congress of the AHPBA, Miami, Florida, United States, 20-23 Feb 2014. Invited Speaker: 1/ Should we limit the number of HPB Fellowships? - Con. 2/ LDLT Should be offered to all wait-listed patients - Pro.


Greig P: Mayo Clinic College of Medicine, Rochester, Minnesota, United States, 16 Apr 2014. Distinguished Speaker: 19th Oliver H. Beahrs Visiting Professor of Surgery. Preparing the Next Generation of Surgeons: Fellowships & Mentorships.


Moulton CA: University of Alberta, Faculty of Medicine Grand Rounds, Edmonton, Alberta, Canada, 6 Jun 2014. Speaker: 1/ Peeking Behind the Curtain: Surgical Judgment Beyond Cognition. 2/ Pressures to Measure Up in Surgical Training and Transition into Practice.


Penner T: DaVita, Syracuse, New York, United States, 13 Sep 2013. Invited Speaker: Everything you wanted to know about PD Access surgery.


Research And Investigations

ACOSOG Z5041. Phase II study of preoperative gemcitabine and erlotinib plus pancreatectomy for patients with operative pancreatic adenocarcinoma. ACOSOG. Pisters P, Wei AC, Moore M. ($150,000.00 USD, 2010 - 2014).


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


Colon Cancer Family Registry Cohort (CCFRC) - Phase IV. National Institutes of Health (NIH) (USA). Gallinger S. ($350,000.00 CAD, Jul 2013 - Jul 2018).

CREMS Summer Program. (Canadian Institutes of Health Research (CIHR). Glatt D, Moulton CA. ($2,750.00 CAD, May 2013 - Sep 2013).


Development and Implementation of an Educational Intervention to Optimize Communication and Care of Patients with Resectable Pancreatic Cancer from Diagnosis to Treatment. Pancreas Cancer Canada. Wei A. (May 2014).


Expansion of the Gattuso Rapid Clinic for Breast Cancer. Slaight and Gattuso Family Foundation and Princess Margaret Hospital Foundation. McCreary DR. ($2,000,000.00 CAD, 2009 - 2018).


Formation and Evaluation of a Rapid Diagnostic Clinic for Breast Cancer. Slaight and Gattuso Family Foundation. McCreary DR. ($12,500,000.00 CAD, 2008 - 2018).


Normothermic ex vivo liver perfusion as a novel strategy to assess and repair marginal grafts. Selzner M. Roche Organ Transplant Research Foundation (ROTRF). ($300,000.00 CAD, 2010 - 2013).


Randomized clinical trials for breast cancer. National Surgical Adjuvant Breast and Bowel Project (NSABP). ($12,730.00 CAD, Jan 2013 - Dec 2013).


The development of the surgical plan. Royal College of Physicians and Surgeons of Canada (The). Zilbert N, Moulton CA. ($45,000.00 CAD, Jan 2013 - Jan 2014).


Validation of Germline Copy Number Variants in Colorectal Cancer. University of Toronto McLaughlin Centre. Gallinger S. ($50,000.00 CAD, May 2013 - Mar 2014).


Honours Received


Greig P: Francis Moore Excellence in Mentorship in the Field of Transplantation Surgery Award, American Society of Transplant Surgeons (ASTS). 2014

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


Quereshy FA.: Wightman-Berris Academy Individual Teaching Award, University of Toronto, Dept of Medicine, Faculty of Medicine, Ontario, Canada. May 2014


Division of Neurosurgery

<table>
<thead>
<tr>
<th>Dr. M.A. Bernstein</th>
<th>Professor</th>
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<tr>
<td>Dr. K.D. Davis</td>
<td>Professor</td>
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<td>Dr. J. Eubanks</td>
<td>Professor</td>
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<td>Dr. M. Fehlings</td>
<td>Professor</td>
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<td>Dr. F. Gentili</td>
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<td>Dr. C. Hamani</td>
<td>Assistant Professor</td>
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<td>Dr. M. Hodaie</td>
<td>Associate Professor</td>
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<td>Dr. W. Hutchison</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. S.K. Kalia</td>
<td>Assistant Professor</td>
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Publications


Oncol. 2014 Mar 4;69.


Quraan MA, McCormick C, Cohn M, Valiante TA, McAndrews MP. Altered resting state brain dynamics in temporal lobe epilepsy can be observed in spectral power, functional connectivity and graph theory metrics. PLOS One. 2013 Jul 26; 8(7).


Invited Visits

Bernstein M. Redlano Congresso 2013, Cartagena, Colombia, August 2013. Invited Speaker: 1/ Awake craniotomy for resection of brain tumours. 2/ Low grade glioma is the question; what is the answer?

Bernstein M: Aga Khan University Hospital, Nairobi, Kenya, March 2014. Invited Speaker: Challenges in training surgery residents.


Bernstein M. Medical University of Warsaw, Warsaw, Poland May 2014. Invited Speaker: Awake (and outpatient!) craniotomy for tumour.

Davis KD: University College London, London Pain Consortium, London, United Kingdom, Jul 2013. Invited Speaker: 1/ If pain is just salience detection then where is the "ouch"? 2/ Imaging central and peripheral abnormalities in chronic pain.

Davis KD: 8th Congress of the European Federation of IASP (International Association for the Study of Pain) chapters (EFIC), Florence, Italy, Oct 2013. Chair: Workshop: Structural Brain Imaging in Chronic Pain: Just an Epiphenomenon?

Davis KD: Israel Pain Association, Eilat, Israel, Nov 2013. Invited Speaker: 1/ Brain imaging technologies and its use to examine different types of acute and chronic pain. 2/ Brain imaging of neuropathic pain.


Davis KD: Law & Health Care Program at University of Maryland Carey Law School, University of Maryland School of Dentistry, and the American Association for the Advancement of Science, Baltimore, Maryland, United States, Apr 2014. Invited Panelist: Imaging the Brain, Changing Minds: Chronic Pain Neuroimaging and the Law.

Davis KD: Johns Hopkins Medicine, Department of Anesthesiology and Critical Care Medicine, 12th Benson Lecture on Pain Medicine, Baltimore, Maryland, United States, May 2014. 1/ Distinguished Speaker: Your brain is not my brain: how the brain reflects individual differences in pain sensitivity and coping. 2/ Invited Lecturer: What can brain imaging tell us about neuropathic pains?

Davis KD: 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, Jun 2014. 1/ Chair: A Brave New World? Ethical considerations for individual assessments workshop. 2/ Speaker: Workshop lecture: A need for an ethical framework in which to consider biological, neurophysiological and technical factors that impact sensitivity and specificity of neuroimaging in individual subjects workshop.


Fehlings MG: IMAST (20th International Meeting on Advanced Spine Techniques) Vancouver British, Columbia - July 10-13, 2013. 1/ Speaker: International Variations in the Clinical Presentation and Management of Cervical Spondylotic Myelopathy: One Year Outcomes of the AOSpine Multicenter Prospective CSM-1Study. 2/ Speaker: Do Neuroprotective Agents Have a Role in the surgical Treatment of CSM (Steroids, Riluzole)? 3/ Moderator: Multilevel Cervical Spondylosis (greater 3 levels) With Straight Alignment: Laminoplasty vs Posterior Decompression and Instrumented Fusion Laminoplasty. 4/ Speaker: Roundtable Sessions: Cervical Trauma


Fehlings MG: Spine: Base to Summit, Medical Education Resources / Broadwater, Beaver Creek, CO, Jan 17-20, 2014. 1/ Co-Director: Central spinal cord injury. 2/ Moderator: Spine Surgery at the Junctions. 3/ Speaker: Cervical trauma: How I choose timing, approach, levels and stabilization.


Hodaie M: XV WFNS World Congress of Neurosurgery, Seoul Teugbyeolsi [Seoul-T’ukpyolshi], Korea, Republic Of, 13 Sep 2013. Speaker: Functional neurosurgery in the developing world: Strategies to address an ignored necessity.


Hodaie M: EndMS Conference, Multiple Sclerosis Society of Canada, St. Sauveur, Quebec, Canada, 10 Dec 2013. Speaker: Imaging Pain in Multiple Sclerosis.


Lozano AM: 2013 Sep 10 Invited Speaker. 25 years of STN DBS symposium. Grenoble, France.


Lozano AM: School of Neurosciences. Cortona, Italy, 2013 Sep 29. Invited Speaker: 1/ Anatomy and Physiology of the basal ganglia – lessons from the operating room. 2/ Neurosurgical treatment of basal ganglia disorders.


Lozano AM: Brazilian Congress of Functional Neurosurgery. São Paulo, Brazil, 2014 May 10. Invited Speaker. 1/ Surgery for movement disorders: where we are; where we will go; 2/ DBS for secondary dystonia: indications and results; 3/ Neuromodulation for dementia.


Shamji M: Canadian Leg and Back Pain 2nd meeting, Canada, Dec 2013. Discussant: Neuromodulation.


Shamji M: Canadian Neurological Sciences Federation, Canada, Jun 2014. Chair: Neuropathic Pain SIG.

Tymianski M: Cedars Sinai Hospital, Los Angeles, California, United States, 18 Jul 2013. Invited Lecturer: From bench to bedside: translation of PSD95 inhibitors for the treatment of acute Stroke.

Tymianski M: Cambridge University, Dept of Neuroscience, Cambridge, Cambridgeshire, United Kingdom, 15 Sep 2013. Invited Speaker: Role of TRPM7 channels in ischemic cell death.


Tymianski M: Dept. of Medicine, University of Miami, Miami, Florida, United States, 3 May 2014. Visiting Rosomoff Professor: 1/ Treatment of ischemic brain damage with PSD95 inhibitors: from bench to phase 3 clinical trials. 2/ Management of unruptured anterior circulation aneurysms by mini craniotomy or endovascular means: a comparison of outcomes, costs and success rates.


Zadeh G: Minnesota Second Symposium on Brain Tumors, Minneapolis, Minnesota, United States, Sep 2013. Invited Speaker: Brain Tumor Angiogenesis.


Zadeh, Gelareh: Canadian Neurological Sciences Federation, Banff, Alberta, Canada, Jun 2014. 1/ Invited Speaker: Angiogenesis in Glioblastoma. 2/ Chair: Brain Tumor Biology.

Research and Investigations

Antidepressant effects of chronic deep brain stimulation in rats: Neurogenesis dependent and independent mechanisms. Ontario Mental Health Foundation. Hamani C. ($150,000.00 CAD, Apr 2012 - Mar 2014).


Antidepressant-like effects of deep brain stimulation in rats and the hypothalamic, pituitary, adrenal axis. FAPESP (Foundation to Support Research in the State of São Paulo, Brazil)/University of Toronto. Hamani C. ($10,680.00 CAD, Apr 2012 - Mar 2014).


Brain stimulation to induce plasticity and enhance recovery in animal models of stroke. Canadian Institutes of Health Research (CIHR). Lozano A. ($225,000.00 CAD, 2011 - 2014).

Cerebrovascular reactivity (CVR) in patients with mesial temporal lobe epilepsy (mTLE). Ontario Brain Institute. Valiante T, Carlen PL, Bardakjian BL. ($250,000.00 CAD, Jul 2013 - Jul 2018).


Deep brain stimulation in different targets in animal models of depression. *St Jude Medical*. Hamani C. ($42,377.00 USD, Sep 2012 - Aug 2014).


Department of Surgery Commitment Funds. Zadeh G. ($400,000.00, 2012 - 2013).

Describing pathophysiology to promote a focal therapy for the treatment of schizophrenia – an animal experimental study. *Neuron ERA NET- Canadian Institutes of Health Research*. Hamani C. ($143,000.00 CAD, Feb 2011 - Jan 2015).


Diffusion tensor imaging as an in vivo brain imaging technique to study the effects of chronic pain and its treatment. *Canadian Institutes of Health Research (CIHR)*. Hodaie M, Davis K, Crawley A, Mikulis D. ($651,814.00 CAD, Oct 2013 - Sep 2018).

Dopamine and synaptic plasticity in human substantia nigra pars reticulata. *Canadian Institutes of Health Research (CIHR)*. Hutchison WD, Dostrovsky JO, Hodaie M, Lozano AM, Moro E. ($490,745.00, Jul 2009 - Jun 2014).

Enhancing recovery following cervical spinal cord injury by modulating inflammation with IgG. *Physicians Services Incorporated Foundation (The) (PSI)*. Fehlings MG. ($167,000.00, Jul 2012 - Jun 2014).


Inhibition of MMPs in Malignant Meningiomas. *Adam Coules Research Grant*. Zadeh G. ($50,000.00 CAD, 2014 - 2014).


Investigating Mechanisms of Tumor Neo-vascularization. *Terry Fox Foundation (The)*. Zadeh G. ($600,000.00 CAD, 2013 - 2016).


Multimodal investigation in epileptogenesis focusing on new models and experimental tools. *FAPESP-Fundação de Amparo a Pesquisa do Estado de São Paulo, Brazil (Foundation to Support Research in the State of Sao Paulo)*. Cendes I, Hamani C. ($178,000.00 USD, Apr 2012 - Mar 2016).

Myelin-axon interactions in ischemia: the role of unmasked K channels in axonal dysfunction. *Heart and Stroke Foundation of Ontario (The) (HSFO)*. Fehlings MG, Velumian AA. ($70,000.00 CAD, Jul 2013 - Jun 2014).


Therapeutic approaches to protect against ischemia/reperfusion injury following surgical decompression for cervical spondylotic myelopathy: A potential solution to attenuate perioperative neurological complication following decompressive surgery. Cervical Spine Research Society. Fehlings MG. ($75,000.00 USD, Jan 2014 - Dec 2014).

Tier 1 Canada Research Chair in Neuroscience. Lozano AM. ($1,200,000.00, 2012 - 2018).


Translational Stroke Research. Canadian Research Chair-Tier 1. Tymianski M. ($1,120,000.00 CAD, Oct 2010 - Oct 2017).

Honours Received

Davis KD: Institute of Medical Science Mel Silverman Mentorship Award, University of Toronto. May 2014.
Kalia SK: Travel Grant, Movement Disorders Society. 2013
Lozano AM: Margoese National Brain Disorders Prize, The University of British Columbia.
Lozano AM: Innovations Award, Canadian College of Neuropsychopharmacology, Canada. 2014
Lozano AM: Cloward Award, Western Neurosurgical Society. 2014.
Lozano AM: Innovation in Neurosurgery Award, University of Iowa. 2013.
Lozano AM: Honoured Guest, Annual meeting of the Neurosurgical Society of the Virginias. 2014.
Shamji M: Top Basic Science Award, Lumbar Spine Research Society. 2013
Shamji M: Young Investigator Research Grant, AOSpine North America. 2013
Tator CH: Dr. Charles Tator Lecture, The American Association of Neurological Surgeons (AANS) / Congress of Neurosurgeons (CNS) Joint Section on Neurotrauma and Critical Care, United States. Apr 2014
Zadeh G: Ross Fleming Surgical Educator Award, University of Toronto. Neurosurgery, Dept of Surgery, Faculty of Medicine. 2014.
Zadeh G: Langer Surgeon Scientist Award, University of Toronto. Neurosurgery, Dept of Surgery, Faculty of Medicine. 2014.

Division of Orthopaedics

Dr. R.S. Bell  Professor
Dr. J.R. Davey  Associate Professor
Dr. W.M. Erwin  Assistant Professor
Dr. R. Gandhi  Assistant Professor
Dr. J. Lau  Assistant Professor
Dr. S. Lewis  Assistant Professor
Dr. N.N. Mahomed  Professor (Division Head)
Dr. K.W. Marshall  Assistant Professor
Dr. D.J. Ogilvie-Harris  Associate Professor
Dr. Y.R. Rampersaud  Associate Professor
Dr. K. Syed  Lecturer
Dr. C. Veillette  Assistant Professor

Publications

Aleem IS, Rampersaud YR. Elderly patients have similar outcomes compared to younger patients after minimally invasive surgery for spinal stenosis. Clin Orthop Relat Res. 2013 Dec 4.


Tjong VK, ML Murnaghan, MD, SM Buret, J Nyhof-Young, PhD, DJ Ogilvie-Harris MD. A qualitative investigation of the decision to return to sport after anterior cruciate ligament reconstruction: to play or not to play. American Journal Sports medicine. 2014 Feb 18; 42(2): 336-42.


Invited Visits

Approach to the hip. 6/ Invited Lecturer: Techniques to Reduce Blood Loss in Total Joint Arthroplasty. 7/ Panel Member: Primary total hip arthroplasty. Ask The Expert Surgeon Panel. 8/ Panel Member: Ask The Expert Surgeon Panel: Primary TKA. 9/ Invited Lecturer: Oops! I Cut the Patella Tendon!


Davey JR: Advances in Hip and Knee Arthroplasty Instructional Course Atlanta, Georgia October 18, 2013, Atlanta, Georgia, United States. Invited Lecturer: 1/ Femoral Offset Gave lecture on the importance of femoral offset. 2/ Arcos Revision THA Case Studies Presented case studies using the Arcos revision system. 3/ Instructor: Arcos Modular revision system.

Davey JR: The 2nd Annual Meeting of the Canadian Arthroplasty Society, Montreal, Quebec, Canada, 22 Nov 2013. Presenter: Efficacy of Topical Tranexamic Acid on Blood Loss and Transfusion in Bilateral Simultaneous Total Knee Arthroplasty.

Gandhi R: McMaster University, Grand Rounds Invited Speaker, Hamilton, Ontario, Canada, Apr 2014. Speaker: Biological Considerations in clinical outcomes research: Understanding the role of Inflammation and OA phenotypes.


Mahomed NN: Combined Meeting of the American Orthopedic Association and Canadian Orthopaedic Association, Montreal, Quebec, Canada, 18 Jun 2014. Speaker: 1/ Overall burden of painful joints and their association with serum adipokine levels among individuals undergoing hip and knee TLR for OA. 2/ The influence of obesity and low education on health-related quality of life: A contrast between individuals with foot/ankle and knee OA. 3/ Multi-joint Arthritis is Associated With Increased Health Resource Utilization For Patients Undergoing TKA. 4/ Multi-joint osteoarthritis is associated with increased in-hospital resource utilization for patients undergoing total hip arthroplasty. 5/ Symptomatic joint counts predict depression in a hip and knee replacement osteoarthritis cohort.


Syed K: Canadian Orthopedic Association (COA), Winnipeg, Manitoba, Canada, Nov 2013. Presenter. Factors Determining Wait-Time and Patient Satisfaction at an Orthopaedic Follow-up Clinic.


Research and Investigations

A comparison of platelet-rich-plasma (PRP) and hyaluronic acid (HA) with and without physiotherapy in isolated patellofemoral osteoarthritis, a triple-blinded factorial randomized controlled trial. 

Physicians Services Incorporated Foundation (The) (PSI).


A multi center randomized controlled study on Vanguard Regenerex tibial tray in total knee arthroplasty. 


Rampersaud YR, Busse JW. ($45,000.00 CAD, Aug 2013 - Aug 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. Canadian Arthritis Network.

Perruccio, AV, Gandhi R, Davis A, Badley E, Mahomed N. ($50,000.00 CAD, Jan 2012 - Jan 2014).

Determining Good Outcome Following Total Knee Replacement. Canadian Institutes of Health Research (CIHR).


Development of Anti-TGF- β Therapy in Reducing Post-surgical Adhesion Formation in Flexor Tendon Graft. 

PSI. von Schroeder H, Veillette CJH, Juneja S. ($124,000.00, Mar 2013 - Feb 2015).

Inflammation and Painful Joint Burden in Osteoarthritis, as a matter of SeXX. The Arthritis Foundation and Autoimmunity Research Centre.

Gandhi R, Perruccio AV, Chandran V. ($35,000.00 CAD, Feb 2013 - Jan 2015).

Inter-professional Spine Assessment and Education Clinic (ISAEC) Pilot. Ontario Ministry of Health and Long-Term Care. Rampersaud YR. ($2,800,000.00 CAD, May 2012 - Mar 2014).


The Minimal Clinically Important Difference (MCID) and Patient Acceptable Symptomatic State (PASS) for the KOOS and IKDC in patients undergoing surgery for articular cartilage defects of the knee. *Arthroscopy Association of North America (AANA)*. Cole BJ, Chahal J. ($12,250.00, Jul 2012 - present).

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. *Arthritis Program, University Health Network*. Veillette CJH, Juneja S, Mahomed, N. ($130,000.00 CAD, Jan 2013 - Dec 2013).

**Honours Received**

Bell RS: Dr. Robert S. Bell Chair in Health Research, Toronto General & Western Hospital Foundation, Toronto. May 2014.


Veillette C: 2013 MSTS Annual Meeting Best Poster Award, Musculoskeletal Tumor Society. For Comprehensive Online Orthopaedic Oncology Surgery Textbook created on OrthopaedicsOne Collaborative Publishing Platform. Oct 2013

Veillette C: Bovill Award for most outstanding OTA Annual Meeting scientific paper, Orthopaedic Trauma Association, United States. Sep 2013

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**Division of Plastic and Reconstructive Surgery**

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<thead>
<tr>
<th>Dr. D.J. Anastakis</th>
<th>Professor</th>
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<tbody>
<tr>
<td>Dr. P. Bray</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. B. Graham</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. S. Hofer</td>
<td>Associate Professor (Division Head)</td>
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<tr>
<th>Dr. S.J. McCabe</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. C.B. Novak</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. A.C. O’Neill</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. H.P. von Schroeder</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. T. Zhong</td>
<td>Assistant Professor</td>
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**Publications**


Knox ADC, Goswami R, Anastakis DJ, Davis KD. Cortical Plasticity after Peripheral Nerve Injury. In: R. Shane Tubbs, Elias Rizk, Mohammadali Shoja, Marios Loukas, Robert Spinner (eds), Sunderland’s Nerves


**Invited Visits**

Anastakis D: AAME, Prague, Czech Republic, 24 Aug 2013. Speaker: Continuing Professional Development - The Importance of having Influence and Power Outline of past and present levels of influence and power held by CPD both at the Faculty of Medicine/UofT and provincial levels.

Anastakis D: Southern Illinois University, Faculty of Medicine, Department of Surgery, Springfield, Illinois, United States, 3-5 Sep 2013. 1/ Distinguished Speaker: Clinician Educators - The Four D Model for Career Success. 2/ Visiting Professor: Restoring Form and Function: The impact of our work on the central nervous system Overview of cortical plasticity research - the impact of peripheral nerve injury, reconstruction and rehabilitation on the human CNS. 3/ Visiting Professor: Plastic and Reconstructive Surgery - Resident and Fellow Case Presentations.

Anastakis D: American College of Surgeons, Surgeons as Educators, Atlanta, Georgia, United States, 10 Sep 2013. 1/ Course Instructor: Week-Long Case. 2/ Course Instructor: Leadership Competencies Overview of leadership competencies required in health professions education. 3/ Course Instructor: Personal and Career Goal Development The four D model for career development. 4/ Facilitator: Microteaching. 5/ Facilitator: Due Process and the Failing Student.


Anastakis D: State University of New York at Stony Brook, School of Medicine, Stony Brook, New York, United States, 11-12 Mar 2014. 1/ Visiting Professor: Cortical Plasticity - what you need to know when training surgeons. 2/ Facilitator: Surgery Education Retreat and Strategic Planning Facilitate education planning session. (1) Innovating the curriculum (2) Teaching Excellence; (3) Educational Technology; (4) Structure and Governance and (5) Scholarly training. 3/ Visiting Professor: Trends and the future of surgical
education. Three main trends: (1) competency based curriculum; (2) simulation and (3) eLearning.


**Hofer S:** Barcelona Breast Meeting, Barcelona, Spain, 6 Mar 2014. 1/ Moderator: Live Surgery Session. 2/ Invited Speaker: 5’ of surgical tricks for avoiding problems - SGAP/IGAP. 3/ Invited Speaker: Management of partial flap necrosis in autologous tissue breast reconstruction. 4/ Autologous tissue breast reconstruction with insufficient tissue: Algorithms for bipedicled abdominal flaps and implant enhancement. 5/ Invited Speaker: Limiting complications in implant based breast reconstruction: What do we need to know?

**Hofer S:** 2nd International Breast Symposium, Dusseldorf, Germany, 5 Apr 2014. Invited Speaker: Mastectomy with immediate reconstruction - Autogenous.

**Hofer S:** American Association of Plastic Surgeons, Miami Beach, Florida, United States, 6 Apr 2014. Presenter: A Single Pre-operative Antibiotic Dose is Effective in Implant-Based Breast Reconstruction.


**O’Neill AC:** 39th Congress of the Colombian Surgical Association, Bogota, Colombia, Aug 2013. Speaker: 1/ Timing of breast reconstruction: immediate versus delayed. 2/ Radiation after breast reconstruction. 3/ Complex reconstruction of the perineum.


Research and Investigations


Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries. Workers Safety and Insurance Board. Davis KD, Anastakis DJ, Katz JD. ($348,273.00 CAD, Jan 2012 - Jan 2015).


Honours and Awards

Zhong T: Gerald Kirsh Humanitarian Award, Princess Margaret Cancer Centre.
Division of Thoracic Surgery

Dr. M. Cypel  Assistant Professor
Dr. G.E. Darling  Professor
Dr. S. Keshavjee  Professor

Dr. M. Liu  Professor
Dr. A. Pierre  Associate Professor
Dr. T.K. Waddell  Professor (Division Head)
Dr. K. Yasufuku  Assistant Professor

Publications


Invited Visits


Darling GE: Health Sciences North Hospital, Sudbury, Ontario, Canada, 29 Mar 2014. Speaker: Lung cancer screening.


Darling GE: ESTS, 22nd European Conference on General Thoracic Surgery, Copenhagen, Denmark, 16 Jun 2014. Invited Speaker: Patients with Stage IIIA(N2) NSCLC selected for neoadjuvant chemoradiation and surgery have improved survival compared to patients treated with definitive chemoradiation.


Keshavjee S: Department of Surgery, Medical University of South Carolina, South Carolina, United States, 14 Oct 2013. Visiting Professor: The Future of Transplantation: Personalized Medicine for the Organ Horace G Smithy Visiting Professor.

Keshavjee S: Wexner Medical Center, Ohio State University, Columbus Ohio, United States, 25 Oct 2013. Lecturer: Klassen Lectureship, Pushing the Envelope...The Next Frontier in Transplantation Klassen Lectureship.


Yasufuku K: Surgical Grand Rounds, University Hospital Zurich, Zurich, Zürich (de), Switzerland, 12 Sep 2013. Invited Speaker: Endobronchial Diagnostic and Therapeutic Procedures - Current Standing and Future Developments.


Yasufuku K: Respiratory Endoscopy/Thoracic Surgery Rounds, Division of Thoracic Surgery,InCo Heart Institute of the Hospital das Clinicas, University of Sao Paulo Medical School, São Paulo, Brazil, 13 Nov 2013. Visiting Professor: Invasive Diagnostic and Therapeutic Strategies in Early Lung Cancer.


Research and Investigations

Adjuvant melatonin in the prevention of recurrence and mortality following lung cancer resection (AMPLCaRe): a randomized placebo controlled clinical trial. Yasufuku K. (Jan 2012 - present).


A Phase III Randomized Trial of Lobectomy versus Sublobar Resection for Small (less than or equal to 2 cm) Peripheral Non-Small Cell Lung Cancer (BCR.5). Yasufuku K. (May 2008 - present).


A Retrospective Analysis of Diagnostic Approaches to Mediastinal Pathology at the University Health Network (UHN). Yasufuku K. (Jun 2012 - present).


Engineering Improved Tracheal Replacement Tissues. Natural Sciences and Engineering Research Council of Canada (NSERC) / Canadian Institutes of Health (CIHR). Waddell TK. ($447,000.00, 2011 - 2014).


GTx OR: Image Guided Intraoperative Tracking and Resection of Small Pulmonary Nodules Using the Integration of Advanced Bronchoscopic Technology, Video-assisted Thorascopic Surgery (VATS) and Siemens Zeego. Yasufuku K. ($283,500.00 CAD, Jan 2014 - Apr 2018).


Initiating Grant. Astellas Pharma Canada, Inc. Cypel M. ($50,000.00 CAD, 2013 - 2014).


Methods and Compositions for Producing Induced Airway Tissue Progenitor Cells. Stem Cell Network. Waddell TK. ($100,000.00, 2013 - 2014).


Mitigation of Radiation-Induced Lung Damage. Canadian Institutes of Health Research (CIHR). Hill R, Waddell TK. ($500,000.00, 2011 - 2014).

Molecular Diagnostic Strategies for the Selection of Donor Lungs for Transplantation. Roche Organ Transplantation Research Foundation (The) (Switzerland). Cypel M. ($300,000.00, 2009 - 2013).

Molecular and Genomic Diagnostics to Improve Outcomes in Lung Transplantation. Ontario Research Fund (ORF). Cypel M. ($1,750,000.00 CAD, 2010 - 2014).


Tier II Canada Research Chair in Lung Transplantation. Canada Research Chairs (CRC). Cypel M. ($500,000.00 CAD, 2012 - 2017).


Tier II Canada Research Chair in Lung Transplantation. Canada Research Chairs (CRC). Cypel M. ($500,000.00 CAD, 2012 - 2017).


Honours Received
Darling GE: Gail E. Darling Award for Excellence in Undergraduate Teaching. Thoracic Surgery, Dept of Surgery, Faculty of Medicine. 2014
Keshavjee S: Canadian Academy of Health Sciences Fellowship. Jun 2014

Division of Urology

Dr. D.S. Elterman  Assistant Professor
Dr. A. Finelli  Associate Professor
Dr. N.E. Fleshner  Professor (Division Head)
Dr. R. Hamilton  Assistant Professor

Dr. M.M. Hassouna  Professor
Dr. M. Jewett  Professor
Dr. G. Kulkarni  Assistant Professor
Dr. S. Radomski  Professor
Dr. J. Trachtenberg  Professor

Publications


Skeldon S, Gani J, Radomski SB. Do patients know their nerve-sparing status following radical prostatectomy? Urology. 2014 May 1; 83: 1099-1103.


**Invited Visits**


**Elterman DS:** The Multiple Sclerosis Society of Canada, Toronto, Canada, Jan 2014. Keynote Speaker: Multiple Sclerosis and overactive bladder.

**Finelli A:** SIU Congress, Vancouver, Canada, Sep 2013. Invited Lecturer: Robotic surgery for High Risk Prostate Cancer.

**Finelli A:** World Urologic Oncology Foundation (WUOF), Vancouver, Canada, Sep 2013. Invited Lecturer: The integration of surgery, radiation and ablation in the management of advanced renal cell carcinoma.


**Fleshner NE:** American Urology Association. San Diego, California, United States, 2013. Presenter: External diagnostic prostate biopsy in active surveillance: a predictor of re-classification on confirmatory biopsy.


**Hamilton R:** Rogers TV, Toronto, Ontario, Canada, 16 Jan 2014. Speaker: What is Prostate Cancer?

**Hamilton R:** CTV, Toronto, Ontario, Canada, 15 Apr 2014. Interview: Men’s Health: Testis Cancer Awareness.

**Hassouna MM:** Canadian Neuromodulation Society, Victoria, British Columbia, Canada, 27 Sep 2013. 1/ Presenter: Role of Neurometer as adjunct to screening for sacral Neuromodulation therapy. 2/ Chair.


**Jewett MAS:** World Urological Oncology Federation, British Columbia, Canada, 8 Sep 2013. Invited Speaker: Personalizing the Care of Early Stage RCC.

**Jewett MAS:** Societe Internationale D’Urologie, British Columbia, Canada, 10 Sep 2013. 1/ Chair: Biopsy of Small Renal Masses: When, How and in Whom? 2/ Presenter: Role of Active Surveillance in Renal Tumours. 3/ Invited Speaker: Primary RPLND vs. BEP-2 vs Surveillance for Stage 1 NGCT: Will there ever be a consensus?

**Jewett MAS:** Kidney Cancer Association, Illinois, United States, 5 Oct 2013. Invited Speaker: Collaborating to Improve Survivorship Care.


Jewett MAS: Oxford University Surgical Grand Rounds, United Kingdom, 4 Apr 2014. Invited Lecturer: When not to operate on cancer: observations from management of GU Cancer.


Kulkarni G: Canadian Urological Association, St. John’s, Newfoundland and Labrador, Canada, 27-28 Jun 2014. Invited Lecturer: 1/ The Difficult Radical Prostatectomy (Post-TURP, Median Lobe, etc). 2/ Should We All Be Part of Multidisciplinary Bladder Clinics: Urologist Viewpoint. 3/ MIS Radical Cystectomy: Open radical cystectomy is here to stay.


Research and Investigations


A pilot RCT and economic analysis of three exercise delivery methods in men with prostate cancer on ADT. Prostate Cancer Canada. Carli F, Matthew AG, Santa Mina D, Culos-Reed N, Krahn M, Tomlinson G.


A randomized, double-blind, parallel, placebo-controlled, phase 4, multicenter study to assess efficacy and safety of VEScCare® (solifenacin succinate) to improve urinary continence of subjects after robotic assisted radical prostatectomy. **Astellas Pharma Global Development Inc.** Finelli A. (Jun 2012 - Jul 2013).

A randomized, double-blind, placebo-controlled phase III study to evaluate the efficacy and safety of pazopanib as adjuvant therapy for subjects with localized or locally advanced RCC following nephrectomy. **Glaxosmithkline Inc.** Jewett MA. ($30,000.00 CAD, Mar 2011 - May 2017).


Biopsy Avoidance in Patients At Risk For Prostate Cancer and in Patients With Low Risk Prostate Cancer: Developing Tools for Personalized Medicine. **Prostate Cancer Canada.** Kulkarni G, Finelli A. ($300,000.00, Jul 2012 - Jun 2014).

Biopsy Avoidance in Patients At Risk For Prostate Cancer and in Patients With Low Risk Prostate Cancer: Developing Tools for Personalized Medicine. **Canadian Urological Association.** Kulkarni G. ($40,000.00, Jun 2012 - Jul 2014).

Clinical Significance of NKX3.1 Deletion in Human Prostate Cancer. **Cancer Research Society.** van der Kwast T, Trudel D, Trachtenberg J. (Jul 2012 - Jul 2013).

Developing and Validating the BUSS (Bladder Utility Symptom Scale) – A Disease-Specific Utility Instrument for Bladder Cancer Health-Related Quality of Life. **Canadian Institutes of Health Research (CIHR).** Krahn M, Kulkarni G, Finelli A. ($359,948.00, Jul 2012 - Jun 2015).


Estimation of bladder volume from sacral nerve root recordings'. **PSI Foundation.** Hassouna M. ($126,000.00 CAD, Nov 2012 - Jun 2014).

Farquharson Chair in Kidney Cancer Research. **Princess Margaret Hospital Foundation (The).** Jewett MA. ($5,000,000.00 CAD, 2006 - 2016).


**Kidney Cancer Research Network of Canada.** **Canadian Institutes of Health Research (CIHR).** Jewett M, Finelli A. ($600,000.00, Jun 2012 – Jul 2015)
Men's Health Fellowship Grant. *American Medical Systems Inc.* Elterman DS. ($30,000.00 USD, Jan 2013 - Dec 2013).


**Novel Window of Opportunity Trial to Evaluate the Impact of Statins to Oppose Prostate Cancer (WinSTOPca).** *Ontario Cancer Institute.* Penn L, Fleshner N, Hamilton R. ($300,000.00 CAD, Jul 2013 - Jun 2015).

**Novel Window of Opportunity Trial to Evaluate the Impact of Statins to Oppose Prostate Cancer (WinSTOPca).** *PCC/CCSRI.* Hamilton R. (Mar 2014).


**Quality of Care for High Risk, Non-Muscle Invasive Bladder Cancer – A Population-based Study.** *University of Toronto's Dean Funds.* Kulkarni G. ($10,000.00 CAD, Jul 2013 - Jun 2014).

**Quality of care for high risk, non-muscle invasive bladder cancer - a population based study of clinical stage T1 cancers.** *University of Toronto, Dean's Fund.* Jewett MA. ($10,000.00 CAD, May 2013 - Apr 2014).


**Sexual Health and Rehabilitation Practitioner eTraining Program (SHARP).** *Prostate Cancer Canada.* Matthew A, Finelli A. ($132,521.00 CAD, Apr 2014 - Mar 2017).

**Sexual Health and eClinic (SHARE).** *Prostate Cancer Canada.* Matthew A, Finelli A. ($813,392.00 CAD, Apr 2014 - Mar 2017).


**The Influence of Genetic Variation on the Association Between Statin and Metformin Use and Prostate Cancer Risk: Towards Personalized Chemoprevention.** *Canadian Cancer Society Research Institute (CCSRI).* Fleshner N, Hamilton R. ($225,000.00 CAD, Aug 2013 - Jul 2016).


The influence of genetic variation on the association between chemopreventive medication use and prostate cancer risk. *Canadian Cancer Society Research Institute (CCSRI).* Hamilton R. ($225,000.00 CAD, Jul 2013 - Jun 2015).

Wyeth/Canadian Institutes of Health Research Clinical Research Chair in Oncology. Canadian Institutes of Health Research (CIHR). Jewett MA. ($1,100,000.00 CAD, 2008 - 2013).

Honours and Awards
Elterman DS: Best Abstract, American Urological Association Annual Meeting. 2013
Finelli A: Faculty Postgraduate Teaching Award Clinical, University of Toronto. Urology, Dept of Surgery, Faculty of Medicine. 2013
Fleshner NE: Queen’s Jubilee Award, Government of Canada. July 2013
Kulkarni G: Faculty Postgraduate Teaching Award, Surgical, University of Toronto. Urology, Dept of Surgery, Faculty of Medicine. Jul 2013 - Jun 2014
Finelli A: Faculty Postgraduate Teaching Award Clinical, University of Toronto. Urology, Dept of Surgery, Faculty of Medicine. 2013

Division of Vascular Surgery

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<tr>
<th>Dr. K.W. Johnston</th>
<th>Professor</th>
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<tr>
<td>Dr. T.F. Lindsay</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. G. Oreopoulos</td>
<td>Assistant Professor</td>
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<td>Dr. G. Roche-Nagle</td>
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<td>Dr. B.B. Rubin</td>
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<td>Dr. L. Tse</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. D.L. Wooster</td>
<td>Professor</td>
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Publications

Altoijry A, Al-Omran M, Lindsay TF, Johnston KW, Melo M, Mamdani M. Validity of vascular trauma codes at major trauma centres. CMAJ 56:405-408, 2013.


Invited Visits


Lindsay TF: American Heart Association. Dallas, Texas, United States, 2013 Nov. Presenter: Cyclosporine-A mediated impairment of coronary artery function is rescued by Tert-Butylhydroquinone via activation of the Nrf2 antioxidant pathway.


Ouzounian M: Cardiovascular Update in Surgical Procedures, Miami, Florida, United States, 8 Feb 2014.
Presenter: Type A Dissection Debate PRO: More extensive distal repair.


Research and Investigations


The Role of PLA2 Pathways in Influenza Immunopathogenesis. Canadian Institutes of Health Research (CIHR). Kelvin D, Rubin BB. ($700,000.00 CAD, Jul 2011 - Jun 2015).
Dr. John Semple, Surgeon in Chief

Heads of Divisions:
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<tr>
<th>Plastic Surgery</th>
<th>Dr. John Semple</th>
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<td>Orthopedic Surgery</td>
<td>Dr. John Theodoropoulos</td>
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Summary - Institutional

Women’s College Hospital is a designated facility for academic ambulatory surgery at the University of Toronto and the Toronto Central LHIN. The Surgical Programs are dynamic and innovative and our mandate is to be a leader in academic ambulatory surgery. 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 X OR-WCH to be the incubator for developing processes that move in-patient surgeries to an Ambulatory setting. Women’s College continues to develop a hub in a city-wide focus in Orthopedic Sports Medicine and building surgical strength in our core programs of Urology, Orthopedics, Plastic Surgery and General Surgery. Our goal is to become a leader in ambulatory surgery as we continue to work on our strengths: innovation and collaboration

Recruitment

Dr. Tim Dwyer has recently joined WCH in the Division of Orthopedic Surgery. He is enrolled in a PhD Research Program in developing the competency in surgery study project at The Wilson Centre, University of Toronto supervised by the Director of the Wilson Centre Dr. Charlotte Ringsted.

Departures

None

Division Report

Dr. Karen Devon completed the Education Scholars Program at the Center for Faculty Development. She was the recent recipient of The Associated Medical Services Phoenix Fellowship for a proposed Project: Developing Ethics morbidity and mortality rounds. The Thyroid/Endocrinology program continues to grow and develop through the commitment and partnerships with UHN. Education for future practitioners from residents/ fellows continues to flourish through journal club and reflective journaling with residents. The Division of Orthopedic Surgery continues to provide leadership in teaching and instruction using simulation techniques in Sports Orthopedics at Women’s College Hospital and activities of the University of Toronto Orthopedic Sports Medicine. Enhancement of future health care practitioners through the U of T Orthopedic Sports Medicine Program (UTOSM) at WCH has integrated a teaching curriculum and research program for fellows and residents. This includes 3 month rotations at a junior and senior level, assessment at the end of the rotation and intense teaching rounds that include a formal bio skills program in the WCH simulation lab. An active teaching program specifically for fellows has been introduced with both evidence based rounds and case presentations with a CME opportunity. In the Division of Plastic Surgery 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 post-op patients at home. In addition Dr. Semple received the Cause Leadership Award from the Canadian Breast Cancer Foundation in recognition for his Leadership in Breast Reconstruction in Breast Cancer Patients and for his clinical accomplishments and research in this area. Women’s College Hospital continues to host international candidates under the Allergan Breast Reconstruction clinical fellowship in the Division of Plastic Surgery.

Education – Institutional

We continue to attract outstanding graduate and post graduate trainees who have been presented with a number of awards and prizes. The Women’s College Hospital surgical staff have been very active in all levels of education and have been recognized for their achievements. Dr. Tulin Cil has won two education awards:

1. Education Research Award, September 2013 Canadian Association of General Surgeons, Ottawa, Ontario Canada.
2. Women’s College Hospital Education Innovation Award, November 2013

Dr. Karen Devon and Dr. Tulin Cil have developed a new ambulatory general surgery rotation with introduction of
weekly guided reflective practice. A Simulation Education Centre has been established in a multidisciplinary content, with a primary contribution by Orthopedic Surgery.

Research – Institutional

The eight core surgeons at Women’s College Hospital have 18 active research grants (including CIHR) and 64 publications through 2013-2014. As in previous years 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. Introduction the article entitled “Is radioactive iodine overused in thyroid cancer treatment?” ASCO Connection. 2013 Sep.


Invited Visits

Devon KM: World Thyroid Congress, Toronto, Ontario, Canada, 10 Jul 2013. Invited Speaker: Thyroid and Parathyroid Ultrasound.

Devon KM: Canadian Surgery Forum, Ottawa, Ontario, Canada, 20 Sep 2013. Invited Lecturer:
Thyroidectomy using new technology Video presentation.

Devon KM: MacLean Center for Clinical Medical Ethics, Chicago, Illinois, United States, Nov 2013. Invited Lecturer: Photo sharing via social media on medical missions.

Devon KM: Faculty of Medicine, University of Chicago, Chicago, Illinois, United States, 4 Mar 2014. Visiting Professor: Ethics of Health Care and Social Media lecture.


Devon KM: Thoracic Cancer Conference, Niagara on the Lake, Ontario, Canada, 27 Apr 2014. Invited Speaker: How does ethics inform social media for health care professionals?

Research and Investigations


The Effect of Type of Breast Reconstruction on Long-Term Psychosocial Functioning in Women with Bilateral Prophylactic Mastectomy. University of Toronto, CREMS. Semple J, Li L, Metcalfe K, Cil T. ($2,750.00 CAD, May 2013 - Sep 2013).


Honours Received

Cil T: Education Research Award, Canadian Association of General Surgeons, Ottawa, Ontario, Canada. Sep 2013.

Division of Orthopaedics

Dr. J. Theodoropoulos - Assistant Professor (Division Head)
Dr. L. Murnaghan - Assistant Professor
Dr. J. Chahal - Assistant Professor

Publications


Invited Visits


Chahal J: 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Ontario, Canada, 2013. Instructional Course Lecturer: Shoulder: Arthroplasty Options-Total Shoulder Arthroplasty, the Only Way to Go.


Theodoropoulos J: McGill University, Montreal, Quebec, Canada, 15 Nov 2013. Keynote Speaker: Rotator Cuff Repair.

Theodoropoulos J: Combined Meeting of the NHL Team Physicians Society and Professional Hockey Athletic Trainers Society, Orlando, Florida, United States, 23 Jun 2014. Invited Speaker: Foot and Ankle Cases in Professional Hockey Presented Unique and Difficult Cases of Foot and Ankle Injuries in the NHL.

Research and Investigations


Mental Imagery in Surgery - A Qualitative Study. PSI. Cil T, Murnaghan ML, Moulton CA. ($13,500 CAD)


Division of Plastic & Reconstructive Surgery

Dr. M.H. Brown Associate Professor
Dr. J.L. Semple Professor (Division Head)

Publications


Invited Visits


Brown MH: Allergan Academy Canada, Santa Barbara, California, United States, 3 May 2014. Invited Lecturer: Incorporating an injection nurse into your practice.


Research and Investigations


Honours Received

Brown MH: Going Above and Beyond. Plastic Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. 2013.


Division of Urology

Dr. E.D. Grober  Assistant Professor

Publications


Invited Visits


Vasectomy Reversal?


**Grober ED**: Canadian Society of Clinical Chemists, Charlottetown, Prince Edward Island, Canada, Jun 2014. Invited Speaker: Testosterone Deficiency and Replacement - Myths and Realities.

**Research and Investigations**


**A Non-Invasive Assay that Enables Non-Invasive Differentiation between Obstructive and Non-Obstructive Azoospermia.** *MaRS Innovation*. Grober ED, Jarvi KA, Diamandis E, Lo K. ($100,000.00 CAD, Jan 2013 - Dec 2013).
Division of Anatomy

Dr. A. Agur  Professor
Dr. B.A. Ballyk  Lecturer
Dr. P.D. Koeberle  Assistant Professor
Dr. J. Laprade  Lecturer
Dr. C. Morshead  Professor (Division Head)
Dr. H.S. Sun  Assistant Professor
Dr. I. Taylor  Professor
Dr. M. Wiley  Professor

Publications


D’Onofrio PM, Koeberle PD. What can we learn about stroke from retinal ischemia models? Acta Pharmacol Sin; 2013; 34: 91-103.


Sun HS. Research Highlight in Stroke. Journal of Sun Yat-Sen University (Medical Sciences); 2014 Jan; 35(1): 8-11.

Invited Visits


Sun HS: University of Sao Paulo, Sao Paulo, Brazil, July 2013. Presenter: Animal Models of Stroke and Hypoxic-Ischemic Injury.
Sun HS: Anhui Medical University, China, 1 November 2013. Invited Speaker: Models for Studying Stroke and Hypoxic-Ischemic Brain Injury.


Sun HS: ZhongShan School of Medicine, Sun Yat-Sen University, China, 8 November 2013. Invited Speaker: Studying the Mechanism of Stroke and Hypoxic-Ischemic Brain Injury.

Sun HS: Canadian Society of Pharmacology and Therapeutics, Canada, 13 June 2014. Invited Speaker: Neuroprotective role of ATP-sensitive potassium channels in cerebral ischemia 2014 CSPT Scientific Meeting Program In conjunction with the Canadian Student Health Research Forum (CSRHF) Invited symposium speaker in Symposium 1: Spectrum of neurological disturbances in diabetes.

Research and Investigations

CFI Equipment Grant. Canada Foundation for Innovation (CFI). Sun HS. ($300,000 2011 - 2016).


Dean's Fund New Staff Grant. University of Toronto, Faculty of Medicine. Sun HS. ($10,000 2013 - 2014).


HSFC GIA. Heart and Stroke Foundation of Canada. Sun HS. ($285,950 2013 - 2016).


SRCFC. Scottish Rite Charitable Foundation of Canada. Sun HS. ($105,000 2012 - 2015).

University of Toronto and Universidade de Sao Paulo Joint Call for Proposal. University of Toronto, UofT and Universidade de Sao Paulo Joint Call for Proposal. Sun HS. ($20,000 2013 - 2015).

Honours Received

Ballyk BA: Excellence in Undergraduate Teaching in Life Sciences, Faculty of Medicine, University of Toronto. 2013.
Research in Education

Dr. Simon Kitto  Assistant Professor
Dr. R.R. Sonnadara  Assistant Professor
Dr. Nikki Woods  Assistant Professor

Publications


**Invited Visits**


Kitto S: BSA Medical Sociology Annual Conference, York, United Kingdom, 13 September 2013. Speaker: Enhancing the quality improvement outcomes of the CCO HPB Community of Practice.

Kitto S: Interprofessional Education (IPE), University of Leicester, Leicester, United Kingdom, 16 September 2013. (1) Invited Lecturer: Sociological theories and IPE. (2) Invited Lecturer: Negotiating medical dominance: The social construction of a care coordinator.

Kitto S: Continuing Education Leadership Program (CELP), Highlights of current research in CPD – hot topics, University of Toronto, Toronto, Ontario, Canada, 3 October 2013. Invited Speaker: Transforming CPD: The role of educational research.


Research and Investigations


Improving Implementation: Exploring the uptake of safe surgery checklists. Faculty of Community Service, Ryerson University. Espin S, Safr O, Grant R. ($9,125 2014).


Honours Received


Kitto S: Dave Davis Award for Research in Continuing Medical Education, Society for Academic Continuing Medical Education. 2013.

Kitto S: Dave Davis Continuing Education and Professional Development Research Award, University of Toronto. 2013.

## Cross Appointments

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<th>Dr. A.J. Baker</th>
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<td>Dr. B. Bapat</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. P. Birek</td>
<td>Dentistry</td>
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<td>Dr. A. Campbell</td>
<td>Medicine</td>
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<td>Dr. J. Carson</td>
<td>Family and Community Medicine</td>
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<td>Dr. W.A. Cassar-Demajo</td>
<td>Anaesthesia</td>
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<td>Public Health Sciences</td>
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<td>Dr. J.E. Davies</td>
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<td>Dr. A.D. DePetrillo</td>
<td>Obstetric and Gynaecology</td>
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<td>Dr. R.J. Eby</td>
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<td>Dr. L. Wilson-Pauwels</td>
<td>Biomedical Communications</td>
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