Department of Surgery

Annual Report

JULY 1, 2014 – JUNE 30, 2015

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. C. Caldarone  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. L. Smith  North York General Hospital
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. Morshed  Anatomy
Dr. C. Caldarone  Cardiac Surgery
Dr. C. Swallow  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
Dr. T. Waddell  F.G. Pearson/R.J. Ginsberg Chair in Thoracic Surgery
Dr. N. Fleshner  Martin Barkin Chair in Urological Research
Dr. T. Forbes  Vascular Surgery
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Gallie-Bateman and McMurrich Research Presentations

Session Chair: Gideon Cohen, Cardiovascular Surgeon

Andrea M. Covelli (SSTP): “Examining health-beliefs: Why mastectomies are on the rise” (Supervisors: Nancy N. Baxter, Frances C. Wright)

Mushriq Al-Jazrawe: “MicroRNA-29 mediates β-catenin induced proliferation of desmoid tumours via PDGFRβ signalling” (Supervisor: Benjamin A. Alman)

Hiroyuki Kawajiri: “Nrf2 protects against ischemia reperfusion injury via inhibition of NF-κb activation and suppresses subsequent development of cardiac allograft vasculopathy in murine heart transplantation” (Supervisor: Vivek Rao)

Spyridon Karadimas: “Early disruption of cervical propriospinal input onto the locomotor central pattern generator (CPG) underlies specific gait deficits in degenerative cervical myelopathy” (Supervisor: Michael G. Fehlings)

James P. Byrne (SSTP): “When is dead “dead”? Identifying the unsalvageable patient for the purpose of Performance improvement” (Supervisor: Avery B. Nathens)

Saswata Deb (SSTP): “Impact of ethnicity on long-term outcomes after coronary artery bypass grafting surgery” (Supervisor: Stephen E. Fremes)

Christopher J.D. Wallis (SSTP): “Incidence density rates of treatment-related complications other than incontinence or erectile dysfunction after contemporary treatment for prostate cancer” (Supervisor: Robert K. Nam)

Simon Kelley: “Fgfr3 regulates fracture repair by controlling the balance of intramembranous and endochondral bone formation” (Supervisor: Benjamin A. Alman)

Michael Chang: “Optogenetic activation of interneurons triggers Ictal events in In vitro and in vivo seizure models” (Supervisor: Taufik A. Valiante)
41st GALLIE DAY Friday May 8, 2015

SYMPOSIUM:
“Is Bigger Better? Opportunities, Challenges and Limitations of Big Data in Health Research”

*Geoffrey Anderson*, Professor, Chair in Health Management Strategies, Department of Health Policy, Management and Evaluation, Faculty of Medicine, University of Toronto

“Linking Broad and Deep Data to Create the Infrastructure for Discovery Research”

*Nancy Baxter*, Colorectal & General Surgeon, St. Michael’s Hospital; Associate Professor, Department of Surgery, University of Toronto

“Volume, Variety, Velocity, Veracity - How do we harness the power of big data for health research?”

*Steven Gallinger*, Head, Hepatobiliary/Pancreatic Surgical Oncology Program; Head, PanCuRx, Translational Initiative in Pancreas Cancer, OICR; Professor of Surgery, University of Toronto

“Big Data in Cancer Genetics Research - It Isn’t Easy, but it’s Worth It”

*Avery B. Nathens*, Surgeon-in-Chief, Sunnybrook Health Sciences Centre; DeSouza Chair in Trauma Research; Professor of Surgery, University of Toronto

“From Crashes to Care to Prevention: Tales of Big Data in Injury Control”

GORDON MURRAY LECTURE:
*Dr. Clifford Ko* (Professor of Surgery, UCLA School of Medicine; Director, Division of Research and Optimal Patient Care, American College of Surgeons)

“Perspectives on Data for Achieving Quality of Care”
41st GALLIE DAY  Friday May 8, 2015

Poster Judging
41st GALLIE DAY  Friday May 8, 2015

Poster Judging
41st GALLIE DAY Friday May 8, 2015

Reception, Dinner & Awards Ceremony
41st GALLIE DAY Friday May 8, 2015

Reception, Dinner & Awards Ceremony
Continuing Appointment Reviews 2014-15

Marcelo Cypel - individual photo

Anand Govindarajan - From left to right: R. McLeod, C. Swallow, A. Govindarajan, J. Wonder, A. McCart, N. Baxter.

Osami Honjo - From left to right: C. Caldarone, O. Honjo, J. Wright

Richard Jenkinson - From left to right: A. Nathens, R. Jenkinson, H. Kreder, P. Ferguson

Martin Koyle - Left to right: N. Fleshner, M. Koyle, C. Caldarone

Girish Kulkarni - Left to right: D. Urbach, N. Fleshner, G. Kulkarni, S. Kashavjee

Jason Lee - From left to right: K. Pace, J. Lee, N. Fleshner

Christine Novak - Left to right: S. Hofer, C. Forrest, C. Novak, S. McCabe, G. Fernie

Leonard Tse - Left to right: T. Lindsay, L. Tse, T. Forbes, K. Yasufuku
University Rounds

Annual Address
September 2014: Dr. O. Rotstein, Dr. J. Rutka

Ben Alman Research and Science Lecture
January 2015: J. Rutka, B. Alman, M. Fehlings

Bigelow Lecture
October 2014: C. Caldarone, R. Bell, J. Rutka

Kergin Lecture
February 2015: Skeptical Scalpel, J. Rutka

Lister and George Armstrong-Peters Award Winner Presentations
December 2014: G. Borschel, J. Rutka, L. Klotz

Palmer Lecture
April 2015: D. Backstein, T. Pawlik, O. Safir

March 2015: Cancelled
May 2015: Gallie Day

Tile Lecture
June 2015: Nathens, M. Tile, J. Kellam
Colon Cancer Canada’s Top to Bottom 2014
I am pleased to provide a summary of the many developments in the Department of Surgery from July 1, 2014 to June 30, 2015. This academic year was notable for numerous accomplishments by faculty, residents, and fellows. In addition, we continued to achieve many of the goals set out in our Strategic Plan, “Transforming Surgery: Beyond the Cutting Edge 2012 – 2017”. As a brief summary, we promoted several faculty members to higher academic ranks by the Decanal Committee, we have established new guidelines for late career transitioning surgeons, we have created a Global Surgery Academic Job Description, we established new Lectureships in the Department of Surgery, we appointed a new Director of Evaluations, and we hired a Medical Illustrator for the first time in the history of the Department of Surgery.

We continue to be leaders in undergraduate medical education in surgery, and I have been incredibly pleased with the success of the Medical Student curriculum with the establishment of the Breakfast with the Chairman seminar, the SEAD Program Course, Suturing Tying Workshops, A Life in Surgery Seminar series to name a few key initiatives. Melinda Musgrave became our new Director of Education and Evaluations. She succeeded Nikki Woods who had served admirably in that capacity for the past 10 years.

I was delighted to appoint Carol Swallow to the position of the Bernard and Ryna Langer Chair in the Division of General Surgery. Carol follows Andy Smith in this role. In addition, Chris Caldarone was appointed as Surgeon-in-Chief at Sick Kids Hospital and follows Jim Wright who has just departed Sick Kids for a position as an Orthopaedic Surgeon at Oxford.

Several of our faculty members held special leadership positions. As examples, Howard Clarke was President of the Canadian Society of Plastic Surgeons, and Tom Forbes the President of the Canadian Society for Vascular Surgery. Robin Richards was the President of the Canadian Orthopaedic Association. Mingyao Liu became the Director of the Institute of Medical Sciences, and Andy Smith the VP of Medical Affairs at Sunnybrook Health Sciences Centre.

Jim Waddell was appointed as the Surgical Alumni Association Chair in the Department of Surgery. He succeeds Martin Barkin who had served in that capacity for the past 6 years. Howard Clarke became the Departmental Promotions Committee Chair succeeding Sender Herschorn who had served from 2011 to 2015.

Formal retirements in the Department of Surgery included Manual Gomez from Plastic and Reconstructive Surgery, Ian Taylor and Mike Wiley from Anatomy.

The following faculty members were promoted from Lecturer to Assistant Professor:

- Jason Lee, Urology St. Michaels; Jory Simpson, General Surgery St. Michaels Hospital; Shahriar Shahrkohi, Plastics, Sunnybrook; Frank Lista, Plastics Trillium; Khalid Syed Orthopaedics UHN; Carmine Simone, Thoracic TEGH; and Michael Weinberg Plastics, Trillium.

From Assistant to Associate Professor: Leo deCosta, Neurosurgery Sunnybrook; Amr ElMaraghy, Orthopaedics St. Josephs; Rajiv Gandhi Orthopaedics UHN; Seven Hopyan, Orthopaedics Sick Kids; Mark Peterson, Cardiac Surgery St. Michaels Hospital; Oleg Safr, Orthopaedics Mount Sinai; Tom Schweitzer, Neurosurgery St. Michael’s; Marcus Selzner, General Surgery UHN; Hong Sun, Anatomy with tenure; and Christiane Wernick, Vascular Trillium.

From Associate to Full Professor, we were pleased to be successful in promoting Nancy Baxter, General Surgery St. Michaels; Tim Daniels in Orthopedics St. Michaels; Teodor Grantcharov, General Surgery St Michaels; Andrew Howard Orthopaedics Sick Kids; William Hutchinson, Neurosurgery UHN; Wolfgang Kuebler General Surgery St. Michael’s; and David Latter, Cardiac Surgery St. Michaels.

Several faculty underwent their Continuing Appointment Reviews in the first 5 years since starting their surgical practices: Osami Honjo, Cardiac Surgery Sick Kids; Marcelo Cypel, Thoracic Surgery UHN; Anand Govindarajan, General Surgery, Mount Sinai; Richard Jenkinson, Orthopaedics Sunnybrook; Martin Koyle, Urology Sick Kids; Girish Kulkarni, Urology UHN; Jason Lee, Urology St Michael’s; Christine Novak, Plastics UHN; and Leonard Tse, Vascular UHN.

Numerous new faculty members were recruited, and they included: Saeid Amini -Nik at SRI; Mitesh Badiwala, Cardiac Surgery UHN; Junaid Bhatti SRI; John Byrne, Vascular Surgery UHN; Mark Camp, Orthopaedics Sick Kids; Tim Dwyer, Orthopaedics WCH; Martin Gargan, Division Head, Orthopaedic Sick Kids; Elisa Greco, Vascular St. Michael’s; Julie Hendrick Haller General Surgery Sunnybrook; Patrick Henry, Orthopaedics Sunnybrook; Mark Hurtig, Orthopaedics; Adena Scheer General Surgery, St. Michaels; Eran Sholomvitz, General Surgery, UHN; William Stansfield, Cardiac UHN; and David Wasserstein, Orthopaedics Sunnybrook.


We inaugurated three new Departmental named lectureships, including the Robin McLeod Lectureship in Clinical Epidemiology; the Balfour Lectureship in Surgical Ethics; and the Ben Alman Lectureship in Surgical Research. For this latter lectureship, Ben Alman came to Toronto from Duke University deliver the lecture in his name and honour entitled, “49”, a lecture which described the differences and similarities in academic surgery between United States and Canada across the 49th parallel.

Stacy Krumholtz was hired as a new medical illustrator, and she has been very active in preparing posters, electronic newsletter items, and logos for our faculty.

Thanks to the efforts of Dr. Barry Rubin, he started the first ever Residents Practice Management Seminar which included topics such as how to start your clinical practice, how to hire administrative assistants, incorporation, tax advice, alternate funding plans, fee for service practice and academic versus community practice startups.

The Department of Surgery Book Club was very active and covered 3 books, including The Spirit Catches You and You Fall Down by Anne Fadiman, Five Days at Memorial, by Sheri Fink,
and Leo Tolstoy’s *The Death of Ivan Ilych*. These book clubs as organized and hosted by Karen Devon, have been highly successful.

Darina Landa left the Department of Surgery as Senior Development Officer, and in her stead David Grieco was hired. Darina has entered the Dean’s office as the current, Interim Head of Advancement in the Faculty of Medicine.

In terms of Advancement highlights, the Department of Surgery raised $2.4 million this past year. Many divisions have 100% faculty support. To date the Department of Surgery has raised $23.5 million in support of the *Boundless Campaign* in the Faculty of Medicine. These are tremendous milestones about which we can feel quite proud in the fundraising world in the Department of Surgery.

A Research Strategic Planning Retreat was held on January 23, 2015 entitled, “Embracing the Continuum: From SSTP to Faculty Scientists”. Michael Fehlings, as Vice Chair of Research, led this retreat, and action items included pursuing alternate funding sources, developing career planning resources, ensuring a smooth transition for new faculty recruits and, investing in information sharing strategies among others things.

In education, there were enhancements in the Prep Camp at the Surgical Skills Centre; there were improvements in the Surgical Foundations Course led by Dr. Maurice Blitz; and the Division of Orthopedics received Royal College Accreditation for its Competency Based Assessment and Training Residency. Efforts are being made to coordinate the new Faculty Development day format with the Department of Anesthesiology at the University of Toronto.

In terms of Continuing Professional Development, this past year total sponsorships came in at $670,000 with over 2,000 learners, all of these being led by Dr. Terry Axelrod.

For Quality and Best Practices, a new resident curriculum was organized by Najib Safeddine, Tim Jackson, and Joe Papia. Several faculty graduated from the IDEAS Program, Robin McLeod’s Quality and Best Practices Committee tackled the Readmissions Rate Project across hospitals, and patient centered care guidelines were being initiated.

For Faculty Development, Ori Rotstein and Paul Greig developed the final plans for the Mentorship Program with divisional representatives identified. Workshop training will be undertaken through Continuing Faculty Development. The late career transition guidelines were established and voted upon and they are now accepted within the Department of Surgery.

In Global Surgery, a new academic job description, entitled Surgeon Global Health was established. Numerous capacity building projects are ongoing. In global surgery the prospectus is in completion stages.

In terms of research funding, this past year, the Department of Surgery received, $43 million in peer reviewed research dollars. The amount of CHIR funding was relatively stable at $24 million. This past year, there were 38 residents in the Surgeon-Scientist Training Program, a record number. As this represents a significant cost to the Department of Surgery, we are always looking ahead to better ways to endow this program.

Several new Research Chairs were established including The Hanna Family Chair in Surgical Oncology research held by Natalie Coburn; a Tier II Canada Research Chairs in Simulation and Surgical Safety held by T. Grancharov; a Chair in Skull Base Neurosurgery at Toronto Western Hospital held by Fred Gentilli; the Second Garron Family Chair in Childhood Cancer Research held by Peter Dirks; an Interim Chair in Cerebrovascular and Brain Tumor Surgery Toronto held by Julian Spears; and the Wilkins Family Chair in Neurosurgical Brain Tumor Research at UHN held by Gelareh Zadeh.

This year, Gallie Day was held at the MaRS Discovery Site and Clifford Ko from the University of California, Los Angeles was the Gordon Murray Lecturer for 2015. A mini-symposium was held on the topic of “Big Data”. The Award Winners for Gallie Day this year included to Usmaan Hamed for the Zane Cohen Clinical Fellowship Achievement Award, Homer Tien for the Tovee Undergraduate Prize, Jefferson Wilson for the Sharfie Fazl Award, Andrew Pierre for the Tovee Postgraduate Prize, Steven Fremes, for the Charles Tator Mentoring Award, H. Yan for the D.R. Wilson Award, Girish Kulkarni for the Bernie Langer Surgeon-Scientist Award, Jeremy Hall Surgical Skills Distinguished Educator Award, Marcelo Cepel for the George Armstrong Peters Prize, and Emil Schemitsch won the Lister Prize. Lavina Lickley won a special Recognition Award given by John Semple. Finally, Karineh Kazazian received the Gallie-Bateman first prize award.

Many of our faculty won significant career awards, and these are too numerous to fully document here. However, some highlights included Michael Fehlings, Fellowship in the Canadian Academy of Health Sciences; Peter Ferguson, the 2015 Donald R. Wilson Award from the Royal College of Physicians and Surgeons of Canada; Shaf Keshavjee Officer of the Order of Canada and Canada First Research Excellence Fund; Lawrence Kloz, Member of Order of Canada; Bernie Langer inducted into the Canadian Medical Hall of Fame; Augustino Pierro, Officer to the Order of the British Empire; David Williams, Order of Ontario.

Many of our faculty received peer reviewed grants, and again these are too numerous to mention here. Some highlights included a NIH R01 Grant to Dr. Robert Nam, a $1.23 million Brain Canada Grant to Michael Taylor, a $3.7 million grant to Michael Tymianski from the NIH and a $6.6 million Grant from Brain Canada. Jay Wunder and Ben Alman received a NIH Grant of $1.7 million, and Taufik Valiante and Andres Lozano received a Canada MRI Grant for $1.5 million. Perhaps not surprisingly, given the times, The Department of Surgery is facing some fiscal constraints as we continue to watch the fall of our carry forward these past 5 years. This will become a major platform for discussion over the next several months. But when considering financial support for all faculty, some of the principles we espouse are our continued support for faculty in the first 3-5 years of their appointment, for those who are actively engaged in the Department’s Strategic Plan, and support for those who have achieved high scores on their annual assessments of productivity. This was the state of the union as I saw it for our Annual Report for this Academic Year.

I sincerely look forward to working with all of you towards our many departmental surgery goals over the next year.

Sincerely,

James T. Rutka, MD, PhD, FRCS, FACS, FAAP, FAANS
RS McLaughlin Professor and Chair
As we wrap up a stellar academic year in research in the Department of Surgery, I start by thanking the Research Committee and as well as everyone else for making my first year as the Vice Chair Research, a year of accolades and unabashed excellence throughout the teaching hospitals and University of Toronto. Over 220 surgeon-investigators, surgeon-scientists, surgeon-teachers and scientists continue to outshine other departments with their research profiles.

We embark on high impact work that has an intense effect on surgical care, from bench to bed-side. Year after year the number of high-impact journal publications continues to grow. Over 1,000 peer reviewed papers are published annually by Departmental members. An analysis conducted for the Department of Surgery 5-year review of the publications within the Faculty of Medicine in the University of Toronto between 2010–2014 reveal a total 5-year review of the publications within the Faculty of Medicine members. An analysis conducted for the Department of Surgery scientists continue to outshine other departments with their research profiles.

We now see that the 2014-2015 fiscal year delivered several large grants (please insert). Our total research funding continues to surpass that of even many of the Universities in Canada. In 2014 funding was over $43,500,000.

The Surgeon Scientist Training Program (SSTP) remains as a very significant training program for residents at the graduate level in research. 2015 academic year starts with 15 new residents and 23 continuing residents enrolled in the SSTP. 87% of our SSTP trainees were successful in receiving full or partial salary support from external granting agencies. Special thanks to CIP-MOH funding, 7 of our SSTPs were awarded full funding from the Clinician Investigator Program.

Benjamin Alman's transitioned to Duke University to be Chair of the Department of Orthopaedic Surgery after serving as Vice Chair Research for 7 years in Department of Surgery at UofT. Since Ben incorporated many new concepts and initiatives into the research portfolio, the Executive Committee voted in favour of renaming the Research Rounds to the Ben Alman Research Rounds. Ben was the first speaker on January 9, 2015. His talk entitled "49" was a magnificent overview on understanding what American means. Also we learned about the role of beta-catenin in mesenchymal biology and how targeting this molecule with a drug can improve surgical outcomes. Ben's his final point was on the contrast and comparison between US and Canadian innovation pipelines. The 2016 Ben Alman Rounds will be on Friday January 8, 2016 by Lisa McKerracher, PhD; CEO, BioAxone BioSciences, Cambridge, MA - “The translational pathway of a novel strategy to facilitate CNS regeneration: From discovery to consumer delivery”.

Each year we strive to improve Gallie Day. The 41st Gallie Day celebration was no different. Drs. James Rutka and Michael Fehlings reflected on the major social, medical, scientific and political changes which have occurred over the past 41 years. The theme of this year’s Gallie Day was “Is Bigger Better? Opportunities, Challenges and Limitations of Big Data in Health Research”. The ways in which surgeons apply big data have many things in common with other fields of medicine and yet at the same time are associated with unique challenges which differ from those confronted by other disciplines. Could we be doing more, collecting data through alternate sources? What are the key limitations? What will be the next “disruptive” analytical approach? The opportunity to exploit big data to provide novel insights into disease pathobiology, optimize patient care strategies or influence health policy are all opportunities for surgeons as translationally oriented researchers and as health care leaders. These challenges exemplify the core of what it means to be an academic surgeon and researcher.

The “big data” symposium, which was chaired by Michael Fehlings featured 4 outstanding speakers. Geoffrey Anderson presented his viewpoints in his talk, entitled “Linking Broad and Deep Data to Create the Infrastructure for Discovery Research”. Professor Anderson discussed the importance of creating interdisciplinary collaborative networks of researchers to explore novel areas of science. Nancy Baxter expressed her perspectives and clinical interests as they connect with health research with her talk, entitled “Volume, Variety, Velocity, Veracity - How do we harness the power of big data for health research?”. Dr.
Baxter gave important perspectives on the power of “big data” to refute conclusions on best medical practice based on small biased datasets. Steven Gallinger’s talk entitled, “Big Data in Cancer Genetics Research - It Isn’t Easy, but it’s Worth It” discussed the impact of large international datasets to improve systems of trauma delivery. 2015 Gordon Murray Lecturer was Dr. Clifford Ko (Professor of Surgery, UCLA School of Medicine; Director, Division of Research and Optimal Patient Care, American College of Surgeons), entitled, “Perspectives on Data for Achieving Quality of Care”.

This year, we introduced a new way of presenting and viewing posters. Electronic Posters or E-Posters are similar to traditional paper posters, but displayed on-site on a large LCD screen. E-Posters increase poster visibility after the event, providing another highly effective platform for promoting continuous education and extending the meeting lifecycle with options to share, comment and even raise questions to the author. E-Posters are a modern, attractive and innovative way to display traditional paper posters. E-Posters save space and cost of printing paper and at the same time allow for the application of modern electronic presentation formats. We had a record number of abstracts submitted by trainees working with our faculty. There were 10 platform presentations and 74 e-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 outstanding oral presentations, all of which were of exceptional quality. Surgeon Scientist Training Program (SSTP) residents are awarded the Gallie Bateman prizes for best oral presentation. First prize went to Karineh Kazazian (Roland Xu, Hannah Wu, Christopher Go, Olga Brashavitskaya, James W. Dennis, Carol J. Swallow), for her presentation on “The protrusional protein polo-like kinase 4 (plk4) enhances cancer invasion” (Supervisor: Carol J. Swallow); second prize was awarded to Andrea M. Covelli (Nancy N. Baxter, Margaret I. Fitch, Frances C. Wright), for her talk entitled, “Examining health-beliefs: Why mastectomies are on the rise” (Supervisors: Nancy N. Baxter, Frances C. Wright); third prize was given to James P. Byrne (Wei Xiong, David Gomez, Homer Tien, Avery B. Nathens), for his very interesting presentation entitled, “When is dead ‘dead’?” Identifying the unsalvageable patient for the purpose of performance improvement” (Supervisor: Avery B. Nathens). Gallie Bateman prizes were also awarded to E-Poster presenters. First e-poster prize was awarded to Dale Poldolsky (David Fisher, Karen Wong, James Drake, Christopher Forrest) for his e-poster entitled, “Development of a robotic approach to cleft palate repair” (Supervisors: James Drake & Christopher Forrest); second prize tie goes to Natasha M. Seemann (Tamara I. Gimon, Dorothea Mutabdzic, Vicki R. LeBlanc, Carol-Anne E. Moulton) for her presentation entitled, “The complex phenomenon of stress in the operating room” (Supervisor: Carol-Anne Moulton), and Ashton A. Connor (Michelle Chan-Seng-Yue, Robert E. Denroche, Ayelet Borgida, Sheng-Ben Liang, Lincol Stein, Michael H. Roehrl, John McPherson, Faiyaz Notta, Steven Gallinger) for his work on “Insights into tumour evolution from whole genome sequencing of metachronous pancreatic ductal adenocarcinoma” (Supervisor: Steven Gallinger).

The McMurrich Awards are presented to research trainees who are not in the Surgeon Scientist Training Program. The oral presentations were phenomenal. The first place award was won by Hiroiuki Kawajiri (Laura Tumiati, Arash Ghashghai, Julieta Lazarte, Liza Grossman-Rimon, Filio Billia, Ren-Ki Li, Mitesh Badiwala, Jagdish Butany, Vivek Rao) for his oral presentation, entitled, “Nrf2 protects against ischemia reperfusion injury in the inhibition of NF-κb activation and suppresses subsequent development of cardiac allograft vasculopathy in murine heart transplanta- tion” (Supervisor: Vivek Rao). Simon P. Kelley (Chunying Yu, Heather Whetstone, Benjamin Alman) received second prize for his oral presentation entitled, “Fgfr3 regulates fracture repair by controlling the balance of intramembranous and endochondral bone formation” (Supervisor: Benjamin A. Alman). Third prize was received by Michael Chang (Suzie Dufour, Taufik A. Valiante), for his work entitled, “Optogenetic activation of interneurons triggers ICTAL events in in vitro and in vivo seizure models” (Supervisor: Taufik A. Valiante).

McMurrich Awards were also bestowed upon a group of individuals who presented amazingly stupendous e-posters. There were two first prize ties as well as two second prize ties. First prize ties go to Kasra Tajdar (Matthew D. Wood, Molly S. Shoichet, Tessa Gordon, Gregory H. Borschel), entitled, “GDNF sustained release from a surgically implantable hydrogel makes deccellul- lized nerve allografts as effective as isografts in supporting nerve regeneration” (Supervisor: Gregory H. Borschel), and Jonathan W. Yau (Krishna K. Singh, Fina Lovren, Yi Pan, Adrian Quan, Azza Ramadan, Pratiek N. Matkar, Mehrroz Ehsan, Paul Sandhu, Laura E. Santella, Nandini Gupta, Hwee Teoh, Matteo Parotto, Arata Tabuchi, Wolfgang M. Kuebler, Mohammed Al-Ormani, Toren Finkel, Subodh Verma), entitled, “The essential autophagy gene ATG7 mediates organ ischemia via regulation of endothelial-to-mesenchymal transition” (Supervisor: Subodh Verma).

Second prize ties were awarded to James Y.L. Hong (Jian Wang, Yang Liu, Mahmod Chamankhah, Anna Badner, Reaz Vawda, Michael G. Fehlings) for his presentation entitled, “Timing of cell therapy for spinal cord injury should be level dependent: Evidence for temporal differences in inflammation” (Supervisor: Michael G. Fehlings), and Ekaterina Turlova (Christine Youjin Bae, Marielle Deurloo, Wenliand Chen, Andrew Barszczyk, F. David Horgen, Andrea Fleig, Zhong-Ping Feng, Hong-Shuo Sun), entitled, “TRPM7 regulates axonal outgrowth and maturation of primary hippocampal neurons” (Supervisor: Hong-Shuo Sun).

Faculty research awards went to Girish Kulkarni (Surgeon Scientist, Urology) - 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; Marcelo Cypel (Surgeon Scientist, Thoracic Surgery) - 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; Stephen Fremes (Surgeon Investigator, Cardiovascular Surgery) - Charles T. McMurrich Award - recognizes an individual supervising participants in the SSTP who exhibits Professor Tator’s qualities, namely excellence in research, commitment to SSTP mentoring and dedication to promotion of Surgeon-Scientists; Emil Schemitsch (Surgeon Investigator, Orthopaedics) - 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 fifth 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 Jefferson Wilson (PGY VI, Neurosurgery), a recent SSTP graduate who obtained his Ph.D with Professor Michael Fehlings. 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 Usmann Hameed (PGY VII, Surgical Oncology). The Tovey 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 Tovey during his outstanding career. This year’s recipient of the Tovey Postgraduate Prize is Homer Tien (Surgeon Investigator, General Surgery), and Akin Tezel. This year’s Graduate Research Award Tovey Undergraduate Prize. The Surgical Skills Centre Distinguished Educator Award demonstrates the Centre’s commit-
ment 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 Jeremy Hall (Surgeon Teacher, Orthopaedics). 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 residents demonstrated an administrative attitude toward teaching and was considered a good surgical role model for undergraduate medical students, which went to Hammu Yan (PGY IV, Urology).

The 48 judges for the e-poster competition as well as the 16 timers, who volunteered their time for the e-poster judging deserve special thanks, as well as the Research Committee members and Drs. Marc Grynpas, Helen MacRae, Joao Rezende-Neto, James Waddell, who assisted in reviewing and judging the oral presentations. As we revel on how great the Day and Evening awards ceremony went, we need to acknowledge the tremendous effort it took from everyone involved. The Day could not have gone as well as it did without everyone’s participation and collaborative efforts. Thanks again this year to Andrea McCarr for assigning the judges to the posters, Gideon Cohen and Gail Darlington proficiently moderating the sessions, and Sylvia Perry for making sure the day’s and evening’s preparations were adhered to perfection. As we enjoyed our meal, we had a beautiful intermission with amazing piano playing by none other than our own Chair, Dr. James Rutka. Allison and Ariel Kwan, who are sisters, joined Dr. Rutka. Ariel played the violin. Ariel and Jim did the first two pieces together. Allison and Ariel did the third piece together.

The second piece that was played was composed by Dr. Rutka. Ariel is a second year pharmacy student at UofT studying at the Leslie Dan School of Pharmacy. Allison is an allergy/immunology fellow at Sick Kids this year.

Michael Fehlings hosted the first PGY 1 and PGY 2 Research Orientation on October 2, 2014 at the PGCRL Gallery. Over 50 residents, SSTP trainees, former SSTP trainees and staff attended the event. Jim Rutka welcomed everyone and stated that the SSTP was the best Program worldwide for residents to pursue a degree in their 3rd or 4th year in residency – it is a 2 – 4 year break in clinical training to concentrate on a research topic which is of interest to the resident. David Urbach Summary points: ‘Clinical Epidemiology’ includes a variety of health research methodologies, including clinical trials, observational epidemiology, cost-effectiveness analysis, health economics, health policy research, evidence-based guidelines, meta-analysis, administrative data, analysis, quality of care research. It is NOT just ‘critical appraisals’! The best place to do training in clinical epidemiology/health services research is Toronto, not Harvard, not Johns Hopkins, not Hamilton, not anywhere else in the world. Abhaya Kulkarni summarized his perspective on the benefits of clin epi research: it’s versatile, it’s immediately gratifying and impactful, it’s relevant to everyday clinical dilemmas, it can help you become a better clinician. Carol-Anne Moulton stated she was encouraged to undertake research studies in surgical skills training as a graduate student, including the ability to articulate practical knowledge about how skills develop, having skill sets in both fields ultimately allows for improvements in the way we care for patients. He encouraged the PGY1 and 2 residents to take advantage of the opportunity to develop research skills within the protective and supportive environment of the SSTP.

Michael also had the first Strategic Planning retreat under his regime, which was held on January 23, 2015. Over 65 staff and residents participated throughout the day. Also the speakers of each of the topics were excellent. Thanks to Joanna Giddens for preparing the Retreat Summary, with exceptional recommendations from the staff and SSTP residents. There are obvious action items that resonate most and should be instigated within a short time. The Panel discussions were very well received and several topics will be highlighted to the Executive Committee. The recommendations for action resulting from the Retreat spanned across 3 major domains: Funding, career planning, and sabbaticals. Funding goals include the pursuit of alternative funding sources and increased opportunities for information sharing. Action items will include the facilitation of alignment between the Department of Surgery and the hospital Research Institutes, bridge and/or seed funding packages for new faculty, and increased involvement of trainees in grant preparation and idea generation. Career planning goals speak to the development and accessibility of career-navigation resources that are appropriate for new recruits through later-career level faculty. Action items include “Path to Promotion” packages and mentoring programs for new staff, peer mentorship for mid-level faculty, and transition mentorship for later-career faculty. Other strategies include Divisional “Career Nights” and technological skill renewal through CPD course offerings. Sabbatical goals begin with defining the values and expectations of a sabbatical within both the University and sabbatical contexts. Action items include assembling an inventory of previous and current sabbatical plans, including the analysis of unsuccessful plan elements. This will provide the groundwork necessary to initiate discussion of designing and implementing a
Department-wide sabbatical policy. Retreat Report is a very important first step in planning the future of the research community in the Department of Surgery.

The first “Career Night” for the SSTP trainees will be held on Friday February 9, 2016. Survey by the SSTP Research Committee representations reported that an overwhelming amount of residents would attend a career night. Topics that residents would like addressed: how to negotiate a contract, start-up funding, applying to US positions (e.g. pre-requisites), how to market yourself, clinical-research balance, managing your online persona. Residents would be interested in hearing from junior faculty (compared with senior faculty), especially those who have completed the SSTP. There is interest in hearing from surgeon-scientists who conduct research in all the major domains (clinical epidemiology, basic science, education, translational research). More than half the residents are very concerned about their job prospects in academia. They asked residents where they would ideally like to practice. More than half would prefer anywhere in Canada. They asked residents how they envision splitting their clinical/research time. Over 60% preferred 50% clinical/50% research. Stay tuned to invitations and agenda in the very near future.

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 dedication and commitment to making the Research Office and all aspects connected to it an excellently run part of the Surgery Department.

Holiday Party 2014

Breakfast with Chair
The Department of Surgery at the Postgraduate level is the largest in Canada with 275 residents and 262 clinical fellows. There have been many accomplishments and successes in the 2014-2015 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 around the world. 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 Royal College Exam. Dr. Blitz coordinated the weekly lecture seminars and he also organized the practice exam that took place in February 2015.

The surgical skills prep camp entered its second year during 2014-2015. 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 runs 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.

The Department of Surgery is moving towards competency-based teaching and assessment. In keeping with this, all of the PGY1 residents have to successfully pass three competencies, they need to pass the exam at the end of Prep Camp, they have to pass the Surgical Foundations Practice Exam and they have to attend at least 75% of the didactic lectures.

There are a number of academic days to enhance the educational experience of the surgical resident. In July 2014, the Core Surgery residents attend “The Surgeon in Society” where medical legal issues are discussed. This is run by Dr. John Bohnen, Dr. Karen Devon and Dr. Ron Levine. Dr. John Murnaghan runs “Residents as Teachers” for the PGY1 and PGY2 residents, which is a workshop to teach our residents to be better teachers. There is also 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. There is also a Practice Management Seminar offered to the graduating senior residents run by Dr. Barry Rubin. This seminar covers topics such as negotiating your first staff position, finances and tax planning, medical office setup, insurance considerations and a multitude of other important areas of interest to surgeons just finishing residency. In May 2015 there was the annual Life in Surgery event coordinated by Dr. Carol-Ann Moulton. The Life in Surgery Committee aims to promote student interest in surgery, facilitate mentoring relationships with surgeons, and most importantly, to provide students with greater insight on the lifestyle of those who pursue surgical careers. The evening provides medical students the opportunity to talk directly with faculty from the surgery department as well as their spouses and children.

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 262 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 275 residents, 262 fellows and 250 faculty members is a huge endeavor. This is masterfully done by Tess Weber and Robert Gardin.
Undergraduate Education in the Department continues in its mission to provide students with quality of education and instruction that is among the best in the world.

Crash Course in Surgery: Under the stewardship of Melinda Musgrave, plans for the revised Crash Course in Surgery, starting September 2015, were formalized. The new format, named ‘Prelude to Surgery,’ is a flipped-classroom PBL-type small group sessions from Monday through Thursday. These morning sessions are from 8:00 a.m. to 12:00 p.m. The day ends with a two-hour hands-on technical skills session from 1:00 – 3:00 p.m. The Friday sessions remain unchanged.

General Surgery mandatory 3-week sub-rotation effective September 2015: Underlining the importance of providing a basic surgery education for all clerks, the Undergraduate Education Committee recommended that General Surgery be made a mandatory 3-week rotation. This is effective September 2015 at all academies except at the Mississauga Academy of Medicine.

Guaranteed 1 in 4 ‘in hospital’ overnight call: It has further been decided that the existing 1:4 in-house, overnight call for clerks be formalized and strictly enforced. Clerks will be on a pre-scheduled call roster. If the service that they are on does not offer ‘in-house’ overnight call, then they are to take call on General Surgery or Orthopaedic Surgery.

Longitudinal Integrated Curriculum (LInC) project: The first year of the Longitudinal Integrated Curriculum was successfully completed with all 7 students moving on to their fourth year. By all accounts, the initial year has proceeded to plan and we expect some feedback in due course. The program has expanded to other academies in the 2015-16 year.

Pre-clerkship initiatives: Of note, this year the Surgical Education And Discovery (SEAD) program increased its participants by 50 percent. Other groups such as the Surgical Longitudinal Experience (SurgicLE), Student Surgical Skills Development (S3D) and the various Surgical Interest Groups (SiG), continue to thrive.

Congratulations to Surgery Pre-clerkship Director, Ron Kodama and all the student leads and other staff for their outstanding efforts.
Overall CPD Goals
In keeping with the Faculty of Medicine’s key strategic priorities for CPD:
- Enhance Best Practice & Faculty Development for Continuing Education
- Advance Research, Innovation & Scholarship
- Strengthen & Grow Practice-Based Education
- Foster & Embed Quality Improvement in Continuing Education
- Promote Patient & Public Engagement

2014-15 Activities
- 25 CE events run through the CPD office, with the majority fully managed, the remainder with sponsorship for accreditation only. This continues a trend over the previous three years in CPD managed and accredited events.
- Superb success with enrollment in the hundreds for several courses, such as the Update in General Surgery 2015 (450), Urology Update 2014 (221) as examples.
- New programmes introduced including the Competency Based Education Training Workshop and continuation of new courses such as the Burn Symposium.
- Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CPD jurisdiction

Objectives for 2015-16
- The Department of Surgery is working with the Vice Dean of Continuing Education to serve as a “Test Department” for the implementation of a new model of CE event funding and management. Discussions are underway in order to maximize our Departmental benefit of using the resources available through the University CE organization.
- Changes in our management model and our Departmental relationship with CE are underway.

Fellows Barbeque 2014
Global Surgery is receiving increasing attention particularly due to findings of the Lancet Commission on Global Surgery. The best estimates to date show 3.6 billion to 5 billion people effectively lack access to surgical care. Correcting this would relieve 30% of the world’s burden of morbidity and mortality. An ambitious plan envisioned by the Lancet commission would see surgical care for all by 2030.

**Ptolemy Project**

This project offers full text downloads of all holdings of the University of Toronto libraries to surgeons practicing in low income countries. It has continually operated for 16 years and has served millions of downloads. Currently over 700 health care providers have library access of whom over 400 are surgeons or surgical trainees. The largest concentration of surgical users are trainees in the COSECSA (College of Surgeons of East, Central and Southern Africa) regions.

**Surgery in Africa**

In 2015 we ran a ten module fully interactive online journal club for COSECSA trainees using a Moodle platform within the COSECSA website. Collaborators includes the Royal College of Surgeons of Ireland, and Dr. Brian Cameron from McMaster University. Among 59 participants who completed the modules we measured a substantial increase in knowledge of evidence based medicine concepts. Trainees were eager and intelligent participants in online discussion forums. One group of trainees published a summary of their participation in the compartment syndrome module as a review article in the East African Journal of Surgery. Thanks to Tara Aird, our new editor, for an excellent year for this project.

**Prakash Foundation Fellowships**

In 2015 three fellows trained in Toronto under this program. Samuel Hailu of Ethiopia pursued a one year fellowship in orthopaedic trauma and arthroplasty under the supervision of Markku Nousianen at Sunnybrook Hospital. Hanna Getachew completed six months of paediatric general surgery training with Ted Gerstle of Sickkids. Finally, Andrew Perry of Trinidad and Tobago began a one year fellowship in breast oncology and oncoplastic reconstruction supervised by Ralph George of St. Michael’s hospital. Plans for next year include doubling the available funding and increasing the opportunity for trainees from low income countries to receive specialized training in Toronto.

**Greg Wilkins Barrick Chair in International Surgery**

**Visiting Scholars**

Ms. Zuha’a Khan, a senior medical student from the University of Texas spent June, 2015 executing a qualitative research study on barriers to individuals participating in international surgical activities.

**Clinical Fellowship**

The Greg Wilkins – Barrick Fellowship provided the salary for Dr. Abat Balem, one of three practising teaching surgeons in Ethiopia, to learn special techniques in neuro-oncology at TWH August 1, 2014 – July 30, 2015. This included awake brain tumour surgery, Gamma Knife radiosurgery for both benign and malignant brain tumours, endoscopic transphenoidal skull base surgery, clinical approaches to the management of brain tumour patients, and systems approaches to efficient, safe, and cost-effective management of brain tumour patients. He was also exposed to methods in neurosurgery research and biomedical writing. The skills and knowledge he acquired will translate directly to his future patients in the practice of surgical neuro-oncology in Addis Ababa, Ethiopia and throughout the country via training of residents, hopefully improving neuro-oncology in that country.

**Teaching Missions in Resource-poor Countries**

The Chairholder took a team to Kiambu, Kenya in October 2014 to help a local neurosurgeon establish a brand new neurosurgery unit at Kiambu District Hospital. Among other things the first ever awake craniotomies were taught and the team brought numerous instruments from TWH. The team members were Dr. Lashmi Venkatraghavan, anesthetist, Dr. Mehdi Shahideh, neurosurgeon, Ms. Heather Wyers, OR nurse, and Ms. Stephanie Michael, OR nurse. Seven surgeries were successfully done in spite of substantial challenges. During the mission the Chairholder was asked to speak to the 190 students at a highschool in Kiambu in which the local host neurosurgeon Dr. Peter Wanyoike is active (he grew up nearby). The Chair pledged a donation of $22,000.00 to build a library for this school, which is very impoverished, as are all its students. The library will help students gain interest in science and hopefully medicine, and ultimately neurosurgery as Kenya’s 45 million people have access to only about 15 neurosurgeons (roughly one tenth the number in Canada).

The team returned to Kiambu March 1-7, 2015 to continue this initiative. Team members included the Chairholder, Ms. Heather Wyers, OR nurse, and Ms. Emma Robertson, OR nurse. Much equipment was brought and 10 surgeries were successfully done. While there the Chairholder lectured at the Kenyatta National Hospital/University of Nairobi about awake brain tumour surgery.

**Acculturating/Education for the Future of International Surgery**

The Chair supported a mission for Dr. Anick Nater to travel to Lusaka, Zambia for two weeks in August, 2014 to help the local neurosurgeon Dr. Kachinga Sichiza, who the Chairholder helped in November, 2013. Dr. Nater helped in surgery and also helped Dr. Sichiza set up data bases to log his cases and engage in outcomes research.
The Chair inaugurated an award to help neurosurgeons in the developing world hold a Neuro-Oncology Symposium locally with international experts but geared at practitioners within the developing world context. The value is $10,000.00 and was advertised and administered through the Society for Neuro-Oncology.

The first competition results were announced at the Society for Neuro-Oncology Meeting in November 2014 in Miami, Florida. The first such symposia will be held in 2015 in Malaysia Dr. Jafri Abdullah, University of Sains Malaysia, Kelantan, Malaysia, and Peru (Dr. Willian Valverde, National Institute of Neoplastic Diseases, Lima, Peru).

The first WINS-Greg Wilkins Barrick Scholarship was awarded to Dr. Mahjouba Boutarbourch, MD, who is a neurosurgeon and an associate professor at the Department of Neurosurgery, Hôpital des spécialités, ONO, CHU Ibn Sina, Faculty of Medicine at the University Mohamen Vth Souissi in Rabat, Morocco. She was supported to attend the Congress of Neurological Surgeons Meeting in Boston, MA, October 2014. See link: http://www.aansneurosurgeon.org/8/women-in-neurosurgery-international-initiatives/

The second WINS-Greg Wilkins Barrick Scholarship was awarded to Dr. Ling Feng who was the first female in China to be granted a PhD in neurosurgery and neuropathology and is Professor of Neurosurgery and doctoral supervisor of the Capital Medical University (CMU), Chair of the Neurosurgical Department and Director of the Neurointerventional Center of Xuanwu Hospital affiliated to CMU, and Director of the Beijing Center of Cerebrovascular Diseases.

The Chair provided the costs of the COSECSA qualifying exams for Dr. Benjamin Okanga, neurosurgery resident at the University of Nairobi, Kenya.

The Chair supported Dr. D. Guha, neurosurgery resident, University of Toronto, to attend the Inauguration of the Institute of Neurosciences of Kolkata, Kolkata, India, November 2014.

The Chair supported Dr. A. Mansouri, neurosurgery resident, University of Toronto, to attend the Society for Neuro-Oncology Meeting, Miami, Florida, November 2014.

The Chair supported a Toronto contingent to help run a World Federation of Neurosurgical Societies Neuro-Oncology Course in Mumbai, India in January 2015. Included were the Chair Holder who gave 2 lectures and participated in case discussions, Dr. Karolyn Au, Neuro-Oncology Fellow at TWH who delivered 4 lectures and participated in case discussions, and Ms. Sandi Amaral and Ms. Jennifer Glen who provided administrative support for the Meeting.

The Chair supported medical student Tiffany Ngai to spend 7 weeks on a medical selective in San Jose, Costa Rica February and March, 2015.

The Chair supported medical student Hala Muaddi to spend 4 weeks on a medical selective in Accra, Ghana, March, 2015.

The Chair supported medical student Elie Sader to spend a week on a teaching mission in Cambodia, April 2015.

The Chair supported neurosurgery George Ibrahim to attend and present at the Bethune Round Table for International Surgery Meeting in Calgary, Alberta June 2015.

Lectures Supported by the Chair

Bernstein M: Simple qualitative research for surgeons. Aga Khan University Hospital, Nairobi, Kenya, October 2014


Bernstein M: Simple qualitative research for surgeons. Aga Khan University Hospital, Nairobi, Kenya October 2014

Nater A: Zambia Mission, Division of Neurosurgery, University of Toronto, November 2014


Guha D: The INK Project in Kolkata. Division of Neurosurgery, UHN Rounds, December 2014

Bernstein M: Overview of management strategies and conservative observation management for LGG. WFNS Neuro-Oncology Course, Mumbai, India, January 2015

Bernstein M: Intraoperative techniques to enhance safety of resection. WFNS Neuro-Oncology Course, Mumbai, India, January 2015


Au M, Zadeh G: Molecular advances in meningioma. WFNS Neuro-Oncology Course, Mumbai, India, January 2015

Au K: Surgical management of skull base meningiomas. WFNS Neuro-Oncology Course, Mumbai, India, January 2015

Au K: Endoscopy for intraventricular tumours. WFNS Neuro-Oncology Course, Mumbai, India, January 2015

Bernstein M: Awake craniotomy for brain tumor removal Kenyatta National Hospital, University of Nairobi, March 2015


Bernstein M: Neurosurgical ethics in everyday practice. Medical Student Neurosurgery Interest Group, University of Toronto, March 30, 2015

Bernstein M: Everyday neurosurgical ethics Louisiana State University, New Orleans, Louisiana, April 2015


Publications supported by the Chair

Mansouri A, Okechi H, Albright L, Bernstein M: Reconnaissance mission to the Neurosurgical Department in Kijabe Hospital, Kenya: A call for the submission of ideas and strategies. World Neurosurgery 81:3-4, 2014. SRI


Peer-Reviewed Papers Given at Conferences Supported by the Chair

Ibrahim GM, Cadotte DW, Bernstein M: A framework for the monitoring and evaluation of international surgical initiatives in low- and middle-income countries. Bethune Round Table Meeting, Calgary, Alberta, June 2015

Scott Kim, U of T meds 16, was awarded a Greg Wilkins Barrick Scholarship to pursue a fourth year clinical research elective in Ethiopia under the supervision of Samuel Hailu (a recent Prakash fellow) and Andrew Howard.

Global Health Education Initiative

A module on international surgery, anaesthesia, burden of injury and surgical workforce was taught by Andrew Howard, Greg Silverman, Georges Azzie, Ted Gerstle, and Jim Turner.

Faculty Led Activities

Numerous U of T surgical faculty lead or participate in clinical educational projects in every continent.

Georges Azzie – Botswana

Peter Chu – Galmi Hospital, Republic of Niger

January to May, 2015


Ted Gerstle – Doha, Qatar

Andrew Howard (Orthopaedics, Sickkids) again served as overseas examiner for the College of Surgeons of East, Central and Southern Africa for the FCS ortho and MCS examinations in 2015. In addition, he made two trips to Ethiopia to work on implementation of a paediatric orthopaedic curriculum in the largest orthopaedic training program in Africa. Ethiopian colleague Ayna Birhanu obtained a POSNA scholarship to make a return trip to the Paediatric Orthopaedic Society of North America meeting and to participate in a clinical observership at Sickkids.


Both were hand surgery missions with direct patient care (clinics, surgery, postop rehab) and in Guatemala, we also have a hand surgery/therapy conference in conjunction with the Guatemala Hand Surgery Society.
Division of Anatomy
Cindi M. Morshead, Division Head

Faculty
The Division of Anatomy has seen a number of changes in the past year. Two of our professors, Dr. Mike Wiley and Dr. Ian Taylor, retired in June of 2015. Mike and Ian were exceptional teachers and award winning educators who were inspirational to all who knew them, students and faculty alike.

Mike joined the University in 1976 as an Assistant Professor in the Department of Anatomy. Through his illustrious career he served as Undergraduate Coordinator, Graduate Coordinator, and Acting Department Chair. When the Department of Anatomy joined the Department of Surgery in 1999, he was appointed the first Chair of the Division of Anatomy in the Department of Surgery and served in this role for 11 years. Dr. Wiley was the recipient of numerous teaching awards including the President’s Teaching Award which is the highest teaching honour at the University of Toronto.

Ian Taylor joined the University in the early 1970’s. He was the Director of the Fitzgerald Academy, and served as Director for Structure and Function in the first year medical curriculum for many years. He played a large role in curriculum development and implementation in the pre-clinical years and continued to teach residents and post-graduate students throughout their training. He was the recipient of many teaching awards and accolades, including the Mary E Hollington Award which he received 13 times. The award recipient is chosen by the graduating medical class for excellence in pre-clinical teaching.

We will miss their mentorship, innovation and guidance and wish them the very best in their retirement years.

The Division is thrilled to welcome Dr. Mubarak Bidmos, MD, PhD, as an Assistant Professor, Teaching Stream. Dr. Bidmos completed his MD at the University of Lagos and went on to do his MSc and PhD in Anthropology. He served as the Director of the Anatomy for second year medical students at the University of Witwatersrand, Johannesburg.

Dr. Hong-Shuo Sun was granted tenure and promoted to Associate Professor.

Dr. Barbara Ballyk and Dr. David Chan (co-directors of the Brain and Behaviour course for first year medicine) received the W.T. Aikins Award for Excellence in Course/Program Development. The Award is the most prestigious Faculty award for commitment to, and excellence in, undergraduate medical education. David and Dee were praised for their teaching, organization and commitment and “their ability to take a good course and make it great”.

Mike Wiley and Ian Taylor Retirement Party
Dr. Mike Wiley received the Dr. Mary Hollington Award, as chosen by the Graduating class. The award recognizes a Faculty member who has taught with distinction in the pre-clinical or basic science portion of the curriculum.

Dr. Paulo Koeberle, Associate Professor, received a CIHR POP grant entitled “Peptide therapeutics for preventing retinal ganglion cell degeneration” ($150,000) for commercial development of therapeutic peptides to prevent vision loss resulting from glaucoma.

Dr. Cindi Morshead, Professor, received a 3 year NeuroDevNet, CIHR Centres for Excellence grant as co-PI entitled “Testing neural precursors as mediators and facilitators of constraint induced movement therapy in cerebral palsy” ($440,000).

Student Awards and Accolades
Katherine Sauks (supervisor Dr. Anne Agur) received her PhD in Rehabilitation Science and won a Gold Medal in rowing at Pan Am games.

Andrew Chow (supervisor Dr. Cindi Morshead) received his MSc from the Institute of Medical Science.

Mark Margharious (supervisor Dr. Paulo Koeberle) received his MSc from Rehabilitation Science.

Rebecca Ruddy, PhD Candidate, (supervisor Dr. Cindi Morshead) was award the CIHR Doctoral Fellowship.

PhD candidates Ms. Wenjun Xu (supervisor Dr. Cindi Morshead) and Ms. Shannon Roberts (supervisor Dr. Anne Agur) were both recipients of the Carlton Smith Fellowship to support their graduate programs and anatomy teaching within the Division.
Division of Cardiac Surgery
Christopher Caldarone, Chair

Highlights
The Division held a Retreat on November 22, 2014 to evaluate city-wide performance metrics using risk-adjusted data from the Cardiovascular Data Management Center. Although the data was still in development stages, this was the first time that risk-adjusted comparative data was directly available amongst the University of Toronto Cardiac Surgery centres.

Recruitment
Mitesh Badiwala was recruited to join the Cardiac Surgery Group at the Toronto General Hospital.

Cedric Manlhiot was recruited to spearhead the Cardiovascular Data Management Center which will integrate clinical data on cardiovascular disease from across the University of Toronto.

Promotions
David Latter and Subodh Verma were promoted to the rank of Full Professor.

Mark Peterson was promoted to Associate Professor.

Research Grants
Christopher Caldarone continues CIHR-funded research on pulmonary vein stenosis and participates as site-PI for the CIHR-funded CORRELATE trial.

John Coles and his group secured approximately one million dollars of research funding over the course of the last two years, from various sources including commercial opportunities.

Stephen Fremes holds one grant as Co-Investigator from the CIHR, “Left Atrial Appendage Occlusion Study III (LAAOS III) and was Co-Applicant on another CIHR Operating Grant, “SodiUm SeleniTe Administration in Cardiac Surgery (SUSTAIN CSX-trial)”.

Fuad Moussa, participating as Co-Investigator, continues his CIHR-funded research on “Multicentre study designed to determine if point of care testing and ROTEM/Platelet works tests affect the rate of transfusion after cardiopulmonary bypass.

Subodh Verma holds one grant from the Canadian Institutes of Health Research (“In vivo and translational role of endothelial autophagy in the regulation of vascular diseases” and two from the Heart & Stroke Foundation (“The role of autophagy in cardiovascular disease: A bench to bedside translational approach” and “Elucidating the role of BRCA1 as a target to improve endothelial function, promote angiogenesis and attenuate atherosclerosis”). He is also co-principal investigator on a grant from the CIHR, “Left Atrial Appendage Occlusion Study III (LAAOS III) and was Co-Applicant on another CIHR Operating Grant, “SodiUm SeleniTe Administration in Cardiac Surgery (SUSTAIN CSX-trial)”.

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Resident/Fellows Honours/Awards/Positions Held
Mohammed Al Jughiman under the guidance of Glen Van Arsdell received First Place in the Resident Poster Competition at the AATS entitled “Is the Rastelli Procedure Falsely Maligned?”

Sawasta Deb was awarded the 2015 Platinum Claire Bombardier Award for the Most Promising Future Clinician Scientist from CIHR under the mentorship of Steve Fremes

Myunghyun (Mike) Lee under the mentorship of Terry Yau was accepted into the Surgeon Scientist training Program for his work examining miRNA-17 cluster activity and gene expression in aortic disease.

Laura-Eve Mantella, a MSc candidate under the mentorship of Subodh Verma, was awarded a Canada Graduate Scholarship (Master’s Program)

Azza Ramadan, a PhD candidate under the mentorship of Subodh Verma, was awarded an Ontario Graduate Scholarship.

Rachel Vanderlaan under the mentorship of Christopher Caldarone was awarded a PSI Resident Grant for her study of myofilament mechanics in hypertrophic cardiomyopathy. She was also received the prestigious Banting Postdoctoral Fellowship award from the CIHR.

Jonathan W Yau, under the mentorship of Subodh Verma, has been awarded a CIHR Fellowship and won the 2015 International Society on Thrombosis and Haemostasis Young Investigator Award. Jonathan has also been named as a finalist for the 2015 American Heart Association Vivien Thomas Young Investigator Award.

Faculty Honours/Awards/Positions Held
Christopher Caldarone is the Associate Editor for the Journal of Thoracic and Cardiovascular Surgery

Stephen Fremes was recognized with the Charles Tator Mentorship Award in 2015.

Maral Ouzounian received First Place in the Moderated Poster Competition at the AATS entitled “David vs. Goliath: Valve-sparing root replacement improves outcomes compared to Bentall procedures in patients with aortic root dilatation”.

Krishna Singh was appointed as a research scientist and Assistant Professor.

Subodh Verma was inducted into the College of New Scholars at the Royal Society of Canada.

Richard Weisel is the Editor-in-Chief for the Journal of Thoracic and Cardiovascular Surgery

Visiting Professors
Robert S. Bell, Deputy Minister, Ministry of Health and Long-Term Care presented the 2014 Bigelow Lecture entitled “From the perspective of Surgeon, CEO and Deputy Minister, How should we manage public reporting of outcomes?” on October 3, 2014

Deepak L Bhatt, from the Brigham and Women’s Hospital, Harvard Medical School, delivered joint St Michael’s Hospital Cardiac Surgery - Heart and Stroke/Richard Lewar Centre of Excellence rounds on the topic “Innovative Agents. Transformative Trials. Healthier Hearts.”
Ross D Feldman, from the Memorial University of Newfoundland, delivered the Fall 2015 Asha Verma Memorial Lecture entitled “Heart Disease in Women: You’ve come a long way...?”

David A Hess, from the Robarts Research Institute of Western University, delivered the Winter 2015 Asha Verma Memorial Lecture entitled “Angiogenesis - Bench to Bedside and Implications for peripheral artery disease”

Neelam Khaper, from the Northern Ontario School of Medicine, Lakehead University, delivered joint St Michael’s Hospital Cardiac and Vascular Surgery rounds on the topic “The antiproliferative role of metformin”

Douglas Zipes, from the Krannert Institute of Cardiology at Indiana University School of Medicine, delivered the 2015 Landmark Lecture on “Birth and maturation of cardiac electrophysiology as a specialty”

Leadership Changes/Progressions

Stephanie Brister retired from the Division of Cardiac Surgery at UHN.

Chris Caldarone was appointed Surgeon-in-Chief and Chief of Perioperative Services at SickKids.

Gideon Cohen stepped down as the Division of Cardiac Surgery Residency Program Director after five years of exemplary service. He was appointed Chair of the Endocarditis Working Group as well as Co-Chair of the ECLS Working Group both at Sunnybrook Health Sciences Centre.

RJ Cusimano was appointed as the interim Program Director for the Division of Cardiac Surgery.

Lee Errett retired from the Division of Cardiac Surgery at St Michael’s Hospital.

Other highlights

John Coles’ work was published in Nature Communications.

Chris Feindel serves in key administrative roles including as the Provincial Chair of Cardiac Surgery for the Cardiovascular Care Network.

Ed Hickey presented novel patient care data at the plenary session of the American Association for Thoracic Surgery using NASA concepts of threat and error. This “flight plan” approach to each patient’s care has captured the interest of a number of major centers.

The adult congenital surgeons, under the direction of Edward Hickey, have successfully launched an innovative program to provide long-term mechanical circulatory support to patients with complex congenital heart disease.

Osami Honjo had his clinical outcomes research presented at nearly all the significant societal meetings in the past year.

Maral Ouzounian has solidified a multidisciplinary team to provide surgical management for thoracic aortic disease.

Vivek Rao continues to serve as the director of the Trillium Gift of Life Network.

Hugh Scully serves as a Canadian representative on the Board of Governors for the American College of Surgeons.

Glen Van Arsdell, in partnership with the McMaster Population Health Research Institute, initiated an international, prospective, 15-20 site, 3000 patient study on tetralogy of Fallot. This is the first congenital cardiac surgical study of that scope.

Subodh Verma together with Muhammad Mamdani of the Applied Health Research Centre at St Michael’s Hospital launched the CARDIOLINK platform of clinical trials across five pillars. These include randomized control trials in five distinct areas. Aneurysm surgery (ACE trial of antegrade cerebral protection strategies), Valvular surgery (CAMARA-1 trial of different approaches to repair mitral valves); Atrial fibrillation (SEARCH-AF trial, evaluating novel ways to detect postoperative atrial fibrillation); peripheral artery disease (EXTINGHUSH - evaluating colchicine in secondary prevention in PAD) and innovative community based interventions (ENABL-NP Nurse practitioner based approach to reduce hospitalizations following cardiovascular surgery). The SEARCH AF trial is funded at $600,000 from Industry.
SUMMARY OF ACTIVITIES FOR THE DIVISION 2014-2015

PROMOTIONS
Assistant to Associate
Sean Cleary
Manuel Gomez
Erin Kennedy
Tom Harmantas
Associate to Full Professor
Calvin Law

NEW APPOINTMENTS
Shady Ashamalla - Interim Division Head, Sunnybrook Health Sciences Centre
Natalie Coburn - Chairholder of the Hanna Family Chair in Surgical Oncology Research
Julie Hendrick-Hallet – Faculty Member, Sunnybrook Health Sciences Centre
Adena Scheer - Faculty Member, St. Michael's Hospital
Eran Shlomovitz - Faculty Member, Toronto General Hospital
David Wasserstein - Faculty Member, Sunnybrook Health Sciences Centre
CARS (Continuing Appointment Review)
Anand Govindarajan - surgical oncologist, Mount Sinai Hospital and Princess Margaret Hospital

AWARDS
John Hagen - Mentor of the Year Award, Region 3 from the Royal College of Physicians and Surgeons of Canada.
Timothy Jackson - David Fear Fellowship Award, University of Toronto Faculty of Medicine.
Shiva Jayaraman (SJHC) - Special Commendation – Integrated Medical Education Awards for Excellence in Community-Based Teaching.
Paul Karanicolas - Roscoe Reid Graham Scholarship in Surgical Science from the Department of Surgery.
Bernard Langer - inducted into the Canadian Medical Hall of Fame.
Agostino Pierro - appointed by Her Majesty the Queen as an Honorary Officer of the Most Excellent Order of the British Empire (OBE).
Agostino Pierro - ICCO (Italian Chamber of Commerce of Ontario) Arts, Science and Culture Award.
Andy Smith - inducted into the American Surgical Association.
Lloyd Smith (NYGH) - Special Commendation for Excellence in Community-Based Teaching (Community Hospital setting).

Peter Stotland (NYGH) - Robert Mustard Mentorship Award, U of T.
Homer Tien - Department of Surgery Undergraduate Teaching Award, Sunnybrook Health Sciences Centre
David Urbach and Nancy Baxter - 2014-15 CIHR-IHSPR Article of the Year Award.

GRANTS
James Byrne - CIHR MSc Scholarship, “Impact of Pre-hospital Care and EMS Performance on Trauma Patient Mortality and Trauma Center Outcome Measures”.
Sean Cleary - co-investigator on a 5 year grant from NIH on a genome-wide association study (GWAS) in hepatocellular carcinoma.
Sandra de Montbrun - 1 year grant - Royal College of Physicians and Surgeons of Canada. “Development and Evaluation of an Objective Assessment of Technical Skill for Graduating General Surgery Residents”.
Karen Devon - Gold Foundation, “Transformative Learning Impact of Surgical Ethics Quality of Care Rounds”.
Teodor Grantcharov - Tier 2 Canada Research Chair in Simulation and Surgical Safety.
Paul Karanicolas - PSI grant to support multicenter randomized trial examining the impact of tranexamic acid on bleeding during liver resection.

IN MEMORIAM
Sigmund H. Ein passed away on Sunday, January 25, 2015. Dr. Ein began his career at SickKids on July 1, 1969 in the Division of General Surgery where he remained until his retirement in 2004.
The Division of Neurosurgery maintained its high standard of excellence in the academic, research, clinical and teaching domains in 2014-15. Our 64 Faculty and residents performed over 6,300 cases and published over 330 papers. Our Faculty received numerous prestigious awards at the junior and senior levels. Our residents enjoyed a banner year for scholarships and awards. We remain grateful to the Dan Family for their generous and longstanding support that has enabled our Division to become the most academically productive Neurosurgery Division worldwide.

**Promotions.** Abhaya Kulkarni was promoted to Full Professor, and Gelareh Zadeh and Taufik Valiante were promoted to Associate Professor, effective July 1, 2014.

**New Chairs.** Gelareh Zadeh was appointed as the Wilkins Family Chair in Neurosurgical Brain Tumour Research, the 15th endowed chair in our Division.

**Research Grants.** Our neurosurgeons and Division-affiliated neuroscientists held over $42.3M in total grant funding, including 17 newly awarded research grants.

### Resident/Fellows Honours/Awards/Positions Held
- Ryan Alkins (PGY6), Teresa Purzner (PGY4) and Deep Guha (PGY3) won the 2015 K.G. McKenzie Prizes in Clinical Neuroscience Research.
- Vivek Bodani (PGY4) received a 2014 Canada Graduate Scholarships-Master’s from the CIHR.
- Deep Guha (PGY3) was awarded an NSERC Alexander G. Bell Canada Graduate Scholarship-Master’s.
- George Ibrahim (PGY5) was awarded the Governor General’s Gold Medal and CIHR Brain Star Award.
- Nir Lipsman (PGY5) was awarded the 2014 CSCI/CIHR Resident Research Prize.
- Alireza Mansouri (PGY4) received a 2015 PARO Trust Resident Teaching Award.
- Anick Nater (PGY4) was awarded a Queen Elizabeth II/William Kerr Scholarship in Science and Technology.
- Teresa Purzner (PGY4) was awarded a 2014 NREF Fellowship and named a Stanford SPARK Scholar.

### Faculty Honours/Awards/Positions Held
- Bernie Schacter, Professor Emeritus, Division of Neurosurgery, received the 2015 Meritorious Member Award from the AANS & CNS Section on Disorders of the Spine andPeripheral Nerves.
- R.S. McLaughlin Chair of Surgery James Rutka won the Canadian Cancer Society 2015 Robert L. Noble Prize.
- Charles Tator was awarded the 2014 Medal of Honour from the Canada’s Research-Based Pharmaceutical Companies (Rx&D) Health Research Foundation.
- Andres Lozano was named to the rank of University Professor, the highest and most prestigious rank at the University of Toronto, effective July 1, 2014.
- Gelareh Zadeh received the 2015 American Brain Tumor Association Young Investigator Award.
- Mohammed F. Shamji was awarded the CNS Ronald R. Tasker Young Investigator Award.
- Michael Taylor received the 2015 William E. Rawls Prize from the Canadian Cancer Society.
- Gelareh Zadeh received the Ross Fleming Surgical Educator Award from the University of Toronto.

### Visiting Professors
- Hughes Dufau, Montpellier University Medical Center, 32nd Annual E. Harry Botterell Visiting Lectureship in Neurosurgery. November 11, 2014.
- Fady T. Charbel, University of Illinois at Chicago, City-Wide Rounds. May 1, 2015.
- Mark Souweidane, Vice Chairman, Department of Neurological Surgery, Weill Cornell Medical College, Bruce E. Hendrick Lectureship. May 22, 2015.
- Luca Regli, Director, Department of Neurosurgery, University Hospital, Zurich, Switzerland, 40th William S. Keith Visiting Professor. June 4, 2015.

### Division Firsts
- The 1st Annual Alan and Susan Hudson Lectureship, organized by Dr. Fred Gentili, took place on April 24, 2015. The inaugural lecturer was Dr. Hudson, past President and CEO of the University Health Network, whose talk was entitled “My life and career - lessons learned”.
- Our Division ranked first in terms of number of publications, citations and institutional h-index among neurosurgery programs in North American. J Neurosurg. 2015 Sep;123(3):561-70.

### Leadership Changes/Progressions.
Julian Spears was selected as the interim Division Head of Neurosurgery at St. Michael’s Hospital.

### Royal College Fellowships.
The following PGY6 residents successfully passed their FRSC fellowship examinations: Ryan Alkins, Sumit Jhas, Osaama Khan, Safraz Mohammed, Shobhan Vachhrajani and Jefferson Wilson.

We can reflect on the past academic year with strong sense of accomplishment. We have been enrichied by our 5 new residents and 25 clinical fellows from around the world. We pause to remember the passing of Affiliated Neuroscientist Dr. Maureen Dennis. We are on a strong course to maintain our leadership position globally in research and training. I thank each of our Faculty, fellows and residents for their tremendous dedication and contributions that have made Toronto Neurosurgery a top-ranked program worldwide.
2014/15 Academic Year was a time of transition, reflection and introspection. I had an opportunity to meet with many of the faculty to chart the course of the next 5 years. Several themes emerged that will serve as a template for priorities going forward. These include reinventing our brand, mentorship, recognition and promotion of our best and brightest trainees, fostering inter-institutional and interdisciplinary research, extension of our innovative education programs and establishing linkages with alumni. We appointed new Residency Program Administration including Dr. Markku Nousiainen as Program Director and Drs. Veronica Wadey and Jeremy Hall as Associate Program Directors. They oversaw an incredibly successful internal review and then Royal College External Review that resulted in full accreditation status of the program. This is an incredible achievement as we complete the second year of our entirely Competency Based Curriculum. At this time all 9 of our pilot stream residents who have taken their Royal College Exam have successfully passed. Our program is to serve as a model for other programs across Canada and North America.

Dr. Albert Yee was named Vice Chair Research and he oversaw a successful research day, along with establishment of a research mentorship program for junior faculty. Dr. Yee’s significant experience in translational and clinical research will lead us forward as we strive to establish inter-institutional initiatives across the Division.

Our research initiatives are now headed by Albert Yee, Vice Chair of Research. Albert has taken bold steps toward increasing the integration of research across our division, fostering inter-institutional projects such as those headed by Aaron Nauth and Sevan Hopyan who received our inaugural divisional research grants last year. Our research boot camp for PGY-1 and PGY-2 residents helps develop impactful projects for our residents and the success is borne out in the presentations at research day and graduation day. Our academic footprint is a measure of how we impact orthopaedics internationally. It is a measure of the impact of our publications, the number of our trainees who develop successful academic careers outside of Toronto, and how our work improves the outcome for the patients we treat. We continue to have one of the world’s largest academic footprints, and this accomplishment is in no small part due to our strong focus of research.

Our efforts in innovative educational methods are well known. Our Competency Based Curriculum completed its 6th year and the second year involving the entire cohort of PGY-1 residents. This training curriculum is now becoming the new standard for resident education in Canada and in North America and many training programs worldwide are mirroring our design. Markku Nousiainen as Program Director and Veronica Wadey and Jeremy Hall as Associate Program Directors deserve a tremendous amount of credit for their efforts, especially in view of the successful Royal College External Review. Our incredibly successful University-wide fellowship program is now headed by Lucas Murnaghan.

University Wide Rounds for the academic year were given by Mark Camp (Toronto), Femi Ayeni (Hamilton), Thomas Willett (Toronto), Bradley Nelson (Minnesota) and Jesse Jupiter (Boston). We had the fourth Stefanski lecture for teaching better communication to orthopaedists. Gary Furlong was our lecturer. He gave his perspective from a mediators point of view on the importance of communication entitled “Communication that Builds Trust”.

At our annual research day held in November, Graham King provided an excellent presentation highlighting how orthopaedic research can be harnessed to develop new technologies that positively impact our patients. He also provided valued mentoring to both our trainees and faculty alike including pearls on academic practice and work-life balance. The Robin Sullivan Award for best resident research project went to Kim Tsong while the best paper by non-surgeon scientist resident went to Jerry Xing and the best paper by a non-resident went to Tarik Attia.

Our Graduation Day Visiting Professor was Kelly Vince from New Zealand. He gave a fabulous and very insightful “The Current State of Revision Knee Arthroplasty” talk as his Salter lecture. Half of our graduates presented research papers while the other half participated in debates. The award for best academic resident, as voted by the faculty, was a tie between Vehniah Tjong and Nick Bayley, and the Meisami award for most compassionate resident, as selected by the faculty, went to Vehniah Tjong and Caroline Scutt. Lawson Awards went to Brian Seeto (PGY 5), Caroline Scutt (PGY 4) David Burns (PGY 3) and Michael Olsen (PGY 2) and Justin Chang (PGY 1). The R.I. Harris awards for the best research presentations at the Graduation Day went to Bheeshma Ravi and Tim Leroux and the award for the best debate went to Raj Vora and Brian Seeto. The James Waddell award for the best PGY 4 resident was awarded to Jesse Wolfstadt. Diane Nam received the Divisional Award for Best Teacher as selected by the residents. Dennis Dipasquale received the inaugural award as best Undergraduate Teacher in the Division.

We welcomed 4 new faculty members this academic year – Martin Gargan, Mark Camp, David Wasserstein and Patrick Henry. Martin was recruited from the UK to be the new Chief of Orthopaedics at the Hospital for Sick Children and has a clinical focus on pediatric hip surgery. Mark is one of our former graduates and was recruited to the Hospital for Sick Children. He has an interest in neuromuscular disorders in children and surgical ethics. David is another of our former residents who has been recruited to Sunnybrook. His area of interest is sports injuries of the lower extremity and trauma and has an academic interest in clinical epidemiology. Finally Patrick has been recruited to Sunnybrook with
an academic interest in sports injuries of the upper extremity and trauma and has an academic focus on clinical epidemiology. We are looking forward to great contributions from Martin, Mark, David and Patrick over the next several years.

We have a total of 6 faculty members who are being promoted as of July 1, 2015. Rajiv Gandhi, Amr Elmaraghy, Sevan Hopyan and Oleg Safir are being promoted to the level of Associate Professor and Andrew Howard and Tom Daniels are being promoted to the level of Full Professor. This is the ultimate academic achievement at the University and is a measure of the outstanding contributions that each have made to orthopaedics. Congratulations to all – this is the largest number of promoteees in the Division in recent memory!

There were several awards bestowed upon our faculty members. Rajiv Gandhi was a 2015 ABC Travelling Fellow. Tim Daniels received the Takkura and Roger Mann Awards at the 2014 AOFAS meetings – both prestigious awards that he has won multiple times. Frank Mastrogiacomo and Bill Kraemer both received Special Commendation – Integrated Medical Education Award for Excellence in Community Based Teaching from the PGME. Peter Ferguson received the 2015 RCPSC/AMS Donald Richards Wilson Award for incorporation of the CanMEDs roles into a residency program. Simon Kelley won a McMurrich Prize at Galie Day as well as the Laidlaw Prize from the Institute of Medical Science Annual Research Day. Jeremy Hall received the 2015 Surgical Skills Centre Distinguished Educator Award. Finally, Emil Schemitsch received the Lister Prize, which is the highest honour in the entire Department of Surgery.

James Rofaiel PGY-3 was awarded the Sopman Humanitarian award at TWH/UHN. Marissa Bonyun PGY-1 received a 2015 Esther and Saul Baker Award. This award is given by the Division of Geriatrics and Marissa was selected as the top off-service resident who has rotated through the service in this academic year.

Ryan Katchky, James Rofaiel and Robert Ravinsky all received 2015 AOFAS Scholarships. Michael MacKechnie received a Canadian Orthopaedic Foundation Bones and Phones Scholarship for his role in the Development of a contextually appropriate orthopedic surgery training program in Botswana.

At our recent 6th Annual Fellowship Day, Jeremie Larouche, Shahram Shahrokh and Michael Dodds were awarded prizes for the best fellow research projects. Jeremie Larouche, Kevin Koo and Sagar Desai were named the best fellow teachers as voted by the residents. Finally, the arthroplasty group at Mount Sinai Hospital comprised of Allan Gross, David Backstein, Oleg Safir and Paul Kuzyk received the inaugural award for excellence in education in a fellowship program. We anticipate that all of our fellows take their great experiences in Toronto with them in their upcoming career endeavours.

All of our trainees were successful on their recent FRCSC exams. Congratulations to Nick Bayley, Luke Bristow, Andrew Dold, Amir Khoshbin, Tim Leroux, Ian Mayne, Bheeshma Ravi, Caroline Scott, Brian Seeto, Vehniah Tjong, Matthew Tsuii, Dmitry Tsvetkov, Raaj Vora and Jerry Xing. Best of luck to them as they embark on the next stage in their careers and profound thanks for all their hard work over the past several years.

Finally, we welcome a fresh group of trainees to our program July 1st. These highly accomplished individuals are the future of our specialty. A warm welcome to Tan Chen, William Chu Kwan, Meghan Crookshank, Jenna Durham, Hilary Felice, Zachary Lim, Ryan Perlus, Jay Toor and Ian Whatley. We all look forward to working with you over the next several years.

I’m sure there are myriad other awards and accolades that I could mention, these are but a few. I apologize if I’ve forgotten anything. Thanks to everyone for your tremendous support of our division and program over the past year. I’m incredibly excited about our collective future!
The division has expanded tremendously and has grown into a consolidated group of 49 surgeons, 3 senior scientists, 25 residents and 20 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 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:
Manuel Dibildox - After four years as a staff surgeon at the Ross Tilley Burn Centre, Dr. Manuel Dibildox will be leaving to pursue residency training in plastic and reconstructive surgery at the Mayo Clinic. The RTBC wishes Manuel all the best in his upcoming training and future career plans.

Recruitment:
Karen Cross was recruited as an Assistant Professor as well as Surgeon Scientist in the Division of Plastic and Reconstructive Surgery, University of Toronto and began her staff appointment at St. Michael’s Hospital on July 1, 2015. Karen is also an adjunct professor at Ryerson University and her lab is scheduled to open on Sept. 15, 2015.

Alan Rogers The RTBC has successfully recruited Dr. Alan Rogers as Assistant Professor to fill the vacancy of Dr. Dibildox. Dr. Rogers is a Plastic Surgeon from Capetown, South Africa, who previously trained in Plastic Surgery at East Grinstead in the UK, and he has just completed a one year fellowship in total burn care at the RTBC. Dr. Rogers is the Vice President of the South African Burn Society, and he has been instrumental in efforts to establish the first ever skin bank in his native South Africa. Dr. Rogers began his appointment on July 1, 2015.

Kristen Davidge was recruited as an Assistant Professor as well as Surgeon Scientist in the Division of Plastic and Reconstructive Surgery, University of Toronto and began her staff appointment at the Hospital for Sick Children on July 1, 2015.

Promotions
Frank Lista (Trillium Health Partners) was promoted to Assistant Professor
Shahriar Shahrokhi (Sunnybrook Health Sciences Centre) was promoted to Assistant Professor
Michael Weinberg (Trillium Health Partners) was promoted to Assistant Professor

Faculty and Resident Grants


Katie Armstrong, Steve McCabe, Toni Zhong, Herb Von Schroeder, Nancy Baxter: Distal radius fracture care in the province of Ontario: factors impacting management. Awarded $18,500 by PSI


Leila Kasrai: UN Foundation: Assessing barriers to prevent burns caused by floor level cookstoves in an urban slum in Nairobi, $35,000 (2014)


Christine Novak (Principal Investigator), Steve McCabe: Cold Exposure Responses in Hand Trauma Patients with Cold Sensitivity. Awarded $10,000 USD (July 1, 2015 – June 30, 2016) from the 2015 American Association for Hand Surgery Research Grant Award.

Christine Novak, Steve McCabe and Jamil Ahmad: Botulinum Toxin Type A for Cold Sensitivity after Hand Trauma. Funded $9980 USD (October 1, 2014 – September 30, 2015) from the Plastic Surgery Foundation


John Semple, Mitchell Brown, P. Morgan, Kristen Davidge: Implementation of 23hr length of stay for breast reconstruction surgery: Quality of recovery evaluation following discharge. WCH Innovation AFP. ($29,841 2011 - 2012.)


Laura Snell, Joan Lipa: Canadian Society of Plastic Surgeons – Clinical Research Outcome Grant – titled: A novel interactive educational module for plastic surgery trainees: a randomized controlled trial. $10,000 (2014-2015)
Laura Snell, Joan Lipa, Anita Long, Paul Binhammer: Sunnybrook Education Advisory Committee – Annual Education Grant: The potential role for simulated training in the identification and management of a compromised free flap: an interdisciplinary needs assessment. $10,000 (2014-2015)


Toni Zhong 2015 Jul – 2020 Jun Development of a National Quality Improvement Program in Postmastectomy Breast Reconstruction to Optimize Patient-Centred Experience. Canadian Institutes of Health Research (CIHR) Foundation Scheme Pilot Program Grant. Program leader: Dr. Toni Zhong, Program experts: Baxter, Nancy; Hofer, Stefan; Jones, Jennifer; Macadam, Sheina; Metcalfe, Kelly; Panzarella, Tony; Porter, Geoff; Pusic, Andrea; Roberts, Amanda; Semple, John; Temple-Oberle, Claire; Webster, Fiona; Wei, Alice, Program experts (Knowledge-user): DeCoteau, M (Rethink Breast Cancer); Witkin, Natalie (Willow Breast & Hereditary Cancer Support). Partners: Institute for Clinical Evaluative Sciences, Canadian Breast Cancer Foundation. $860,006 CAD [Grants]


National Endowment for Plastic Surgery Grant 2015.


Residents Honours/Awards/Positions Held

Katie Armstrong: 2015 Outstanding Paper Award (Trainee Category), Women’s College Hospital Research Institute, Toronto, Ontario.

Katie Armstrong 2015 Michael Decter Scholarship for Health Leadership and Policy Studies, St. Elizabeth Foundation, Toronto, Ontario. Awarded annually to a high-performing graduate student; ideal for students aspiring for a health leadership, executive or board role in the Canadian Health Care system.


Katie Armstrong 2014 Mentor Medical Systems Canada Graduate Scholarship, the Division of Plastic & Reconstructive Surgery, University of Toronto, Ontario.

Katie Armstrong 2014 Student Paper Award, The American Telemedicine Association Annual Meeting, Baltimore, Maryland. Awarded to one student, based on the quality of their submitted paper and presentation to the ATA annual meeting where over 36 countries were represented.

Katie Armstrong 2014 Mentor Best Clinical Paper Award, Resident Research Day, University of Toronto, Toronto, Ontario.

Katie Armstrong 2015 – Present Innovation Fellow, Women’s College Hospital Institute for Health System Solutions and Virtual Care, Toronto, Ontario.

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.


Ryan Austin: American Society for Aesthetic Plastic Surgery Resident Travel Scholarship 2015

Ryan Austin: Aesthetic Surgery Journal, Editorial Board, Member (Resident).

Joseph Catapano: 2015 Frederick Banting and Charles Best Doctoral Research Award, CIHR

Joseph Catapano: 2015 Resident Clinical Paper Award, Annual Meeting of the American Society of Peripheral Nerve

Joseph Catapano: 2014 Hilda and William Courtney Clayton Paediatric Research Fund, School of Graduate Studies, UofT

Joseph Catapano: 2014 Peterborough K.M. Hunter Graduate Scholarship, School of Graduate Studies, UofT

Joseph Catapano: 2014 Edward Christie Stevens Fellowship, PGME, University of Toronto

Joseph Catapano: 2014 Joseph M. West Memorial Fund, PGME, University of Toronto


Joseph Catapano: 2014 Jul – 2015 Jul – Canadian Institutes of Health Research (CIHR) Foundation Scheme Pilot Program Grant. Program leader: Dr. Toni Zhong, Program experts: Baxter, Nancy; Hofer, Stefan; Jones, Jennifer; Macadam, Sheina; Metcalfe, Kelly; Panzarella, Tony; Porter, Geoff; Pusic, Andrea; Roberts, Amanda; Semple, John; Temple-Oberle, Claire; Webster, Fiona; Wei, Alice, Program experts (Knowledge-user): DeCoteau, M (Rethink Breast Cancer); Witkin, Natalie (Willow Breast & Hereditary Cancer Support). Partners: Institute for Clinical Evaluative Sciences, Canadian Breast Cancer Foundation. $860,006 CAD [Grants]

Memorial Fund, Student, Awardee Name: Joseph Catapano. The University of Toronto, Faculty of Medicine, Toronto, Ontario, Canada. (Specialty: Plastic and Reconstructive Surgery). Total Amount: 2,637.5 CAD.

2014 Jul - 2015 Jun: 2,637.5 CAD. Postgraduate Awards Committee at the Faculty of Medicine monetary award.


2014 Jul - 2015 Jun: 6,637.5 CAD. Postgraduate Awards Committee at the Faculty of Medicine monetary award.

Siba Haykal: 2014 Recipient of Women’s Microsurgery Group ViOptix Travel Scholarship at the American Society of Reconstructive Microsurgery


Dale Podolsky: 2015 May – Gallie-Bateman and McMurrich Resident Poster Research Competition, Awardee Name: Dr. Dale Podolsky

Dr. Dale Podolsky won first place for his poster presentation entitled Development of a robotic approach to cleft palate repair

David Sainsbury: W.K. Lindsay Research Prize, Division of Plastic & Reconstructive Surgery, Awardee Name: Sainsbury D, Fisher DM. 10th Annual Lindsay-Thomson Symposium in Pediatric Plastic Surgery, Toronto, Ontario, Canada

Dr. David Sainsbury was chosen for his presentation of “The role of intravital velocplasty in the von Langenbeck Palatoplasty”.

Jennica Platt: 2015 Best Basic Science Award – Annual Division of Plastic and Reconstructive Surgery Research Day

Jennica Platt: 08/2014 – present Resident representative, Surgical Foundations Committee, University of Toronto


Faculty Honours/Awards/Positions Held

Jamil Ahmad: Appointed as Vice-Program Chair for American Society for Aesthetic Plastic Surgery (ASAPS). This is a 3-year appointment before taking over the position as Program Chair for another 3 years.

Jamil Ahmad: Section Editor for the Breast Section of the Aesthetic Surgery Journal.

Dimitri Anastakis: Positions Held and Leadership Experience

2007 Jul 1 - present Consultant Staff. Surgery, Mount Sinai Hospital, Toronto, Ontario, Canada.

1997 Jan - present Consultant Staff. Division of Plastic Surgery, Surgical Services, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada.

2005 Jul 1 - present Associate Member. School of Graduate Studies, University of Toronto, Toronto, Ontario, Canada.

2002 Dec 13 - present Associate Member. Institute of Medical Science, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.

2012 Jul 1 - 2015 Jun 30 Vice Dean. Continuing Professional Development, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.

2011 May 1 - present Professor. Plastic and Reconstructive Surgery, Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.

2014 Oct - present Chair, BOD Nominating Committee. SIM-one, Ontario Simulation Network, Ontario, Canada.

2014 Sep - present Chair Board of Directors. SIM-one, Ontario Simulation Network, Toronto, Ontario, Canada.


2014 Jul 1 - 2015 Jun 30 Dean’s Cabinet, Toronto, Ontario, Canada.

Dimitri Anastakis: Invited Speaker. 2015 Jun 8 Presenter. A Longitudinal Study of Pain, Personality and Plasticity Following Peripheral Nerve Injury, Sunderland Society, Ann Arbor, Michigan, United States. Presenter(s): DJ Anastakis and MJ A Mallessy. - Describe the CNS changes that occur following PNI

- Describe the CNS changes that occur in patients with PNI and chronic neurogenic pain

- List potential patient specific cofactors that may contribute to chronic neurogenic pain following PNI. Jan. 25, 2015


Dimitri Anastakis: Invited Speaker. The Continuum of Medical Education and the Role of Advancement. Faculty of Medicine, Office of Advancement, Toronto, Ontario, Canada. Presenter(s): DJ Anastakis. Overview of the continuum of medical education provided along with explanation of the critical role advancement plays in supporting the learner at UofT. Feb 25, 2015


Oleh Antonyshyn: Patent: Method of Forming Patient-Specific Implant. Granted, Filing Date: 2011 Jun. Patents #: 8,974,535. United States. Joint Holder Name(s): James Mainprize, Glenn Edwards. Methods and apparatus are provided for forming a patient-specific surgical implant based on mold system. The apparatus comprises a forming tool and a mold that may be generated using imaging and processing techniques and rapid prototyping methods. The mold apparatus includes at least two non-adjacent surface features for securing an implant forming material (such as a titanium mesh) during the forming process, enabling the implant forming material to be stretched beyond its elastic and thus permanently deformed with the correct patient-specific curvature. The implant may include one or more anatomic surface features for guidance and registration when transferring the implant to a patient. March 2015


Oleh Antonyshyn: 2014 Nov 6 - 2014 Nov 16 Professional Innovation and Creative Excellence. Canada Ukraine Foundation/Operation Rainbow Canada Surgical Mission Kyiv 2014. Initiated, developed, organized and implemented a humanitarian surgical mission to Ukraine, comprising 25 Canadian volunteer medical professionals. Established 3 fully supported OR’s at the Central Military Hospital in Kyiv to complete 37 craniofacial and upper extremity reconstructions. First Humanitarian Surgical Mission ever conducted In addition to completing over 50 consultations and 37 procedures, this was a major educational effort with intraoperative teaching of host country surgeons, residents, and students. Documented through CTV, CBC, CNN

Oleh Antonyshyn: 2014 Jul - 2015 Jun Marvin Tile Distinguished Service Award, Sunnybrook Health Sciences Centre, Department of Surgery, Toronto, Ontario, Canada. (Distinction), given to an individual who has contributed significantly in the areas of teaching, research and professional activity within the Department of Surgery.

Oleh Antonyshyn: Positions Held and Leadership Experience

1996 Sep 1 - present Associate Scientist. Imaging/ Trauma Research, Sunnybrook Research Institute, Toronto, Ontario.

Head. Craniofacial Program, Sunnybrook Health Sciences Centre, Toronto, Ontario.


2011 May - present Professor. Plastic and Reconstructive Surgery, Surgery, University of Toronto, University of Toronto, Ontario, Canada.

1996 May 1 - present Professor. Surgery, University of Toronto, Toronto, Ontario.

1992 - present Member, Craniofacial Team, Department of Surgery.

1992 - present Member, Research Committee, Plastic Surgery, Department of Surgery.

Advanced Cranio maxillofacial Forum

2008 Jan - present Member, Research Board.

Advanced Cranio maxillofacial Forum / University of Toronto 2008 Jul - present Course Director, Craniofacial Symposium Organizing Committee.

AO International

2009 Feb - present Board Member, Cranio maxillofacial Clinical Priority Program Committee: Imaging and Planning in Surgery.

AO/ASIF

1995 Feb 1 - present AO Faculty Member, North American Maxillofacial Education Committee.

Ontario Society of Plastic Surgeons

2007 May - present Reviewer, Tariff Committee, Ontario Ministry of Health Fee Discrepancies for Craniofacial Surgery.

Sunnybrook Health Sciences Centre

2006 Jul 17 - present Member, Sunnybrook Division of Plastic Surgery Research Committee, Toronto, Ontario.


Paul Binhammer: Awarded Arnis Freiberg Faculty Teaching Excellence Award 2015.


Greg Borschel: 2015 Mar 5 Invited Speaker. New Eye Surgery - Corneal Neurotization. Interviewer: Marci Ien. Canada AM. CTV, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Doctors at Toronto’s Hospital for Sick Children have pioneered a new surgery that restores lost feeling in the eye. They have been able to successfully transfer a nerve from the patient’s leg into the eye. It’s a new approach to a medical problem that experts have been unable to solve for years. Abby Messner was the first person to have the new procedure in 2012.

Greg Borschel: 2015 Mar 5 Speaker. Restoring nerve sensations - Corneal Neurotization. CTV, CP24, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. Doctors at Toronto’s Hospital for Sick Children have pioneered a new surgery that restores lost feeling in the eye. They have been able to successfully transfer a nerve from the patient’s leg into the eye. It’s a new approach to a medical problem that experts have been unable to solve for years. Abby Messner was the first person to have the new procedure in 2012.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. Pioneering eye surgery - Corneal Neurotization. Global National, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. Doctors are calling it a pioneering technique to restore sensation to the eye. It is an innovation that could prevent blindness. A new nerve graft transplant has been used on several patients at Toronto's Hospital for Sick Children...What doctors have done is fairly remarkable. Imagine having no feeling in one eye, you would be able to see but you wouldn't be able to feel wind, dust or an infection. This leads to scratching and scaring of the cornea and eventually blindness. That was the scenario.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. Canadian doctors pioneer new technique that restores sensation to eye - Corneal Neurotization. Global National, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. You know when you have that feeling that there is something in your eye? It's the feeling that Abby Messner took for granted until she lost that feeling...It's a rare condition called corneal anaesthesia where a nerve in the eye doesn't work...Surgeons at SickKids hospital have pioneered a new surgery to restore that feeling by taking a nerve graft from the leg into the eye.

Total Hours: 1


Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. New surgery proves it's good to have "a lot of nerve". City TV, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. You've heard the saying 'eye for an eye,' but from a medical perspective that could be further from the truth. A radical new surgery that restores feeling in the eye, by taking a small nerve from a patient's leg...Eighteen year old Abby has a new nerve in her eye that was once in her calf. Exciting because she is the first one to undergo this new technique called corneal neurotization. It allows those with no feeling in their eye to regain sensation.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Article Feature: MetroNews, Hamilton Spectator, MyKawtha.com, Yahoo Canada News, News Locker, WesterlyNews.ca, Parksville Qualicum Beach, Fort Fra. Nerve from leg restores lost feeling in eye. Canadian Press - CTV, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory; Zuker, Ronald; Ali, Asim. Canadian pediatric surgeons have pioneered a technique to restore missing feeling in the eye - by taking a small nerve from a patient's leg and grafting it onto an existing healthy nerve in the face. The minimally invasive operation brings sensation back to children born without feeling in one or both eyes, or to those who have lost feeling due to injury or surgery to remove a brain tumour. Called corneal anesthesia...relatively rare - SickKids sees a handful of.

Total Hours: 1


Abby Messner tried injections to her eye, wearing specialized hard contact lenses, surgeries to remove scarring and even stitching part of her eye closed. Years ago, the 18-year-old lost feeling in her left eye - a condition called corneal anaesthesia after she had a brain tumour removed. Canadian scientists at the Hospital for Sick Children say they've pioneered an innovative surgery that restores feeling in the eye by transplanting a nerve from the patient's leg. The nerve is grafted to an existing healthy nerve in the face. The minimally invasive operation brings sensation back to children born without feeling in one or both eyes or to those who have lost feeling due to injury or surgery. A team at Toronto's Hospital for Sick Children developed the procedure and the hospital has so far performed the operation on eig.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. Restoring nerve sensations - Corneal Neurotization. CBC Radio One; Metro Morning, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. Doctors at Toronto's Hospital for Sick Children have not only saved a teen a younger vision, they've made a medical breakthrough and the procedure is now being picked up by other surgeons. It involves a unique nerve transplant. If eyes are indeed windows into the soul, eighteen year old Abby Messner has been reinvigorated. Seven years ago she had major surgery she was left with no feeling in her left eye...Doctor Asim Ali talked to plastic surgeons and together they came up with a procedure that.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. Restoring nerve sensations - Corneal Neurotization. 900 CHML Hamilton; Zoomer Radio AM740 Toronto - Health and Lifestyle report, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. Canadian pediatric surgeons have pioneered a new technique to restore missing feeling in the eye using a nerve taken from the patient's leg. The nerve is grafted to an existing healthy nerve in the face in the minimally invasive operation bringing sensation back to children born without feeling in one or both eyes or to those who have lost feeling due to injury or surgery. A team at Toronto's Hospital for Sick Children developed the procedure and the hospital has so far performed the operation on eig.

Total Hours: 1

Greg Borschel: 2015 Mar 5 Speaker. Restoring nerve sensations - Corneal Neurotization. Winnipegs Morning News; CJOB 68 Winnipeg and on CFRA 880 Ottawa, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H.; Zuker, Ronald; Ali, Asim. Canadian pediatric surgeons have pioneered a brand new technique to restore missing feeling in the eye and they're doing it by using a nerve taken from a person's leg. The nerve is grafted onto an existing healthy nerve in the face. The minimally invasive operation brings sensation back to children who were born without feeling and one or both eyes or to those who have lost feeling due to injury or surgery. It's called corneal anesthesia. The condition leaves patients unable to feel pain.

Total Hours: 1


Total Hours: 1


Howard Clarke: Positions Held and Leadership Experience
1987 - present Consulting Staff, Maxillo-facial Clinic. Holland Bloorview, Kids Rehabilitation Hospital, Toronto, Ontario.
1987 - present Active Staff Surgeon, Plastic Surgery. The Hospital for Sick Children, Toronto, Ontario.
2003 - present Clinical Professor. College of Medicine, Korea University, Seoul, Korea.
2003 - present Professor. Department of Physical Therapy, University of Toronto, Toronto, Ontario.
2014 - present Co-Chair, Promotions Committee, Department of Surgery.
2010 - 2014 Member, Promotions Committee, Department of Surgery.

American College of Surgeons
2013 - present Member, Advisory Council for Plastic and Maxillofacial Surgery.

American Society of Plastic Surgeons
2013 - present ASPN Representative, Board of Directors.
2007 - present Membro Correspondente.

Canadian Society of Plastic Surgeons
2015 - present President.
2014 - 2015 Vice President.
2013 - 2014 Vice-President Elect.

Royal College of Physicians and Surgeons of Canada
2012 - present Member, Specialty Committee in Plastic Surgery.
2001 - present Touchmark Theatre, Board of Directors

Jeff Fialkov: continues to work on craniofacial biomechanics and has filed for a patent related to a unique method of bone stabilization.

Craig Fielding: Craig Fielding continues as Division Head at St Joseph's, and has as well led four sessions on Medical Ethics/Professionalism during the Monday morning teaching series. He participated in a Surgical skills session on basic suturing and dissection, and presented his approach to the management of Gynecomastia at the U of T Aesthetic Symposium. He is a member of the PGME Internal Review Committee which oversees all the training programs in the university.

Joel Fish: recently joined the membership of the American Burn Association Certification Committee. This is a very prestigious appointment and Joel’s focus is to develop standard metrics for verification of pediatric burn units.

David Fisher: 2015 Mar Received the Fred Schudy Memorial Research Award, The American Association of Orthodontists Foundation. Understanding the enigmatic, dwarfed mandible in non syndromic Pierre Robin sequence, its morphology, growth, associated clinical burdens and implications.

2010 Jul 1 - present Associate Professor, Plastic and Reconstructive Surgery, Department of Surgery, University of Toronto, Toronto, Ontario, Canada
2005 Jan 1 - present Project Director, Population Health Sciences Program, The Hospital for Sick Children, Toronto, Ontario, Canada
2004 Jul 1 - present Active Staff, Medical Director, Cleft Lip & Palate Program, Division of Plastic & Reconstructive Surgery, The Hospital for Sick Children, Toronto, Ontario, Canada
2000 Jan 1 - present Courtesy Medical Staff, St. Joseph’s Healing Centre, Toronto, Ontario, Canada
2002 - present Volunteer Plastic Surgeon, Operation Smile 2014 - Bogota, Columbia 2013 - Guwahati, India

The Hospital for Sick Children
2012 Feb - present POCU Quality and Risk Management, Toronto, Ontario, Canada

University of Toronto, Faculty of Medicine
2002 May 31 - present Examiner, Objective Structured Assessment of Technical Skills for Surgical Residents

Transforming Faces Worldwide
2006 Jun 1 - present Medical Advisor, Medical Advisory Committee

Canadian Society of Plastic Surgeons
2015 Jun - present Senior Director, Educational Foundation Board, Canada

Editorial Boards
2009 Jan 1 - present Journal of Plastic, Reconstructive & Aesthetic Surgery
2009 Jan 1 - present Plastic and Reconstructive Surgery
2009 Jan 1 - present The Cleft Palate-Craniofacial Journal

Christopher Forrest: 2011 Sep - present Chair, Division of Plastic and Reconstructive Surgery, University of Toronto, Toronto, Ontario, Canada
2006 Mar 1 - present Professor, Surgery, University of Toronto, Toronto, Ontario, Canada
2003 Jan 1 - present Head, Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Toronto, Ontario, Canada
1999 Feb 10 - present Full Member, Cardiovascular Collaborative Sciences Collaborative Program, Toronto, Ontario, Canada
1999 Jan 1 - present Medical Director, The Centre for Craniofacial Care and Research, The Hospital for Sick Children, Toronto, Ontario, Canada
1998 May 29 - present Full Member, Institute of Medical Science, University of Toronto, Toronto, Ontario, Canada

University of Toronto
2011 Sep - present Member: Senior Advisory Committee, Faculty of Medicine, Dept of Surgery, Plastic Surgery, Toronto, Ontario, Canada.

OTHER
Christine Novak: Associate Editor: Journal of Hand Surgery (2012-2015); HAND 2006-present; Physiotherapy Canada (2003-2015)

Christine Novak: American Society for Peripheral Nerve, Council Member

Christine Novak: American Association for Hand Surgery, Member, Program committee

Christine Novak: Touching Hands Project, American Foundation for Surgery of the Hand, Haiti Adventist Hospital, Port au Prince, Haiti, July 6-13, 2014

Christine Novak: University of Toronto Centre for the Study of Pain, Executive Committee, 2013-present & Education Subcommittee, 2013-present

Christine Novak: Graduate Department of Rehabilitation Science, Admission & Awards Committee, 2013-present

Stefan Hofer: Had a great showing at the Ironman Triathlon Competition on March 22nd, 2015 in Sydney, Australia. Unbelievable achievement to finish this race which consists of a 2.4-mile (3.86 km) swim, a 112-mile (180.25 km) bicycle ride, and a marathon 26.2-mile (42.2 km) race in that order and without a break.

Joan Lipa: Sunnybrook Education Advisory Committee Patient and Family Education Print Funds Competition. Breast Reconstruction with the Latissimus Dorsi Flap: A Patient Resource $1000 (for patient educational resource development – not a research study)

Joan Lipa, Laura Snell, Catherine McMillan: Sunnybrook Education Advisory Committee Annual Education Grant: Supporting pre-operative education for patients pursuing immediate breast reconstruction: the impact of patient mentoring.

James Mahoney: Medical Director, Perioperative Services, St. Michael's Hospital.

James Mahoney: Received the Squires Hyland Trust Award in April 2015. “The award assists senior physicians as they continue to teach new generations in pursuit of medical excellence. A highlight for Dr. James Mahoney was his invitation to Saudi Arabia where he was a visiting professor.

Cho Pang: Congratulations to Senior Surgeon Scientist, Dr. Cho Y. Pang who officially retired from active scientific research and assumed Professor Emeritus status at the end of March 2015.

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.

Michael Weinberg: recently honored with a teaching award from the Mississauga Academy of Medicine.


Visitng Professors

Jamil Ahmad: Traveled Amman, Jordan with ISAPS-LEAP Surgical Relief Team 2015.

Jamil Ahmad: Invited speaker to Iranian Society of Plastic Surgeons to speak at the 8th International Congress of Advanced Rhinoplasty and Facial Plastic Surgery 2015.

Oleh Antonyshyn: Invited Lectures and Presentations

2015 May 16 Keynote Speaker. Panfacial fractures: Current management. Annual meeting of the Ukrainian Association of Craniofacial Surgeons, Kyiv, Kyiv, Ukraine. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 16 Keynote Speaker. Applicatons of 3D imaging, computer modeling, 3D navigation, and rapid prototyping in craniofacial surgery. Annual meeting of the Ukrainian Association of Craniofacial Surgeons, Kyiv, Kyiv, Ukraine. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 5 Invited Speaker. The fracture biomodel. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 5 Invited Speaker. Patient specific cranial vault reconstruction. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 5 Invited Speaker. Secondary orbital deformities: Analysis and reconstruction. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1


Toni Zhong: 2014 Sep - present Associate Professor Faculty, Health Policy, Management and Evaluation, Institute of Health Policy, Management and Evaluation, University of Toronto, Toronto, Ontario, Canada

Toni Zhong: 2015 Jan - present Adjunct Scientist, Institute for Clinical Evaluative Sciences, University of Toronto, Toronto, Ontario, Canada

Toni Zhong: CIHR NEW INVESTIGATOR AWARD 2015 Jul - 2020 Jun

Improving Access to Optimized Postmastectomy Breast Reconstruction through Health Services Research and Clinical Trials for Breast Cancer Survivors. Canadian Institutes of Health Research (CIHR). 300,000 CAD. Toronto, Ontario, Canada.


Ron Zuker: 2014 Jun CSPS Lifetime Achievement Award, Canadian Society of Plastic Surgeons, Montreal, Quebec, Canada. (Distinction)

Ron Zuker: 2014 Nov 2014 University of Toronto Research Award, University of Toronto, Faculty of Medicine. (Research Award)

Ron Zuker: 2014 Jul - 2015 Jun Lifetime Achievement Award, University of Toronto, Division of Plastic and Reconstructive Surgery. (Distinction)

Ron Zuker: 2015 - present Director of Alumni Relations, Division of Plastic and Reconstructive Surgery, University of Toronto, Toronto, Ontario, Canada

Ron Zuker: 2015 – present Member, Department of Surgery, University of Toronto, Alumni Committee

Ron Zuker: 2012 - present Team Lead, Vascularized Composite Allotransplantation Program, Department of Surgery, University of Toronto

Ron Zuker: 2006 - present Co-Chair, Vascularized Composite Allotransplantation Committee, Toronto, Ontario.


Ron Zuker: American Academy of Pediatrics 2002 - present Ex Officio, Past Chair, Executive Committee, Section on Plastic Surgery

Ron Zuker: American Society for Reconstructive Microsurgery 2011 Feb - present Endowment Committee, United States

Ron Zuker: International Registry of Hand and Composite Tissue Transplantation 2007 - present Section Coordinator, Lower Limb Transplantation

Ron Zuker: Moebius Syndrome Foundation 2002 - present Scientific Advisory Board, United States

Ron Zuker: Operation Smile International 2000 - present Member, Member, Plastic Surgery Council

Ron Zuker: World Society for Reconstructive Microsurgery 2010 - present Liaison for Canada, Liaison for Canada Member, Liaison for Canada

Ron Zuker: Canadian Magen David Adom for Israel 1996 - present Honorary Director, Executive Committee

2008 - present Editorial Board (Revised), Journal of Reconstructive Microsurgery

1996 - present Editorial Board, Journal of Craniofacial Surgery

1996 - present Honorary Director, Executive Committee

1996 - present Operation Smile International

2002 - present Scientific Advisory Board, United States

2006 - present Co-Chair, Vascularized Composite Allotransplantation Committee, Toronto, Ontario.

2013 – present Chairman, Clinical Ultrasound Standards Committee, The Hospital for Sick Children.

American Society of Plastic Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O, Mainprize J, Edwards G. Presenting to THE HONOURABLE GARY GOODYEAR, MINISTER OF STATE FOR THE FEDERAL ECONOMIC DEVELOPMENT AGENCY FOR SOUTHERN ONTARIO, AND JOHN CARMICHAEL, MEMBER OF PARLIAMENT FOR DON VALLEY. Total Hours: 1

Oleh Antonyshyn:

2015 May 5 Invited Speaker. The fracture biomodel. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 5 Invited Speaker. Patient specific cranial vault reconstruction. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 5 Invited Speaker. Secondary orbital deformities: Analysis and reconstruction. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1


2015 May 16 Keynote Speaker. Panfacial fractures: Current management. Annual meeting of the Ukrainian Association of Craniofacial Surgeons, Kyiv, Kyiv, Ukraine. Presenter(s): Antonyshyn O. Total Hours: 1

2015 May 16 Keynote Speaker. Applicatons of 3D imaging, computer modeling, 3D navigation, and rapid prototyping in craniofacial surgery. Annual meeting of the Ukrainian Association of Craniofacial Surgeons, Kyiv, Kyiv, Ukraine. Presenter(s): Antonyshyn O. Total Hours: 1


2015 Feb 5  **Keynote Speaker.** Surgical Mission to Kyiv. Queen’s University Ukrainian Student Association, Kingston, Ontario, Canada. Presenter(s): Antonyshyn O. Total Hours: 1

2014 Dec 2  **Invited Lecturer.** CUF/Rainbow Humanitarian Surgical Mission Kyiv 2014. Ukrainian Professional and Businessmen’s Association, Toronto, Ontario, Canada. Presenter(s): Antonyshyn O.


2014 Oct 14  **Lecturer.** Classification and decision-making in the management of facial fractures. Toronto, Ontario, Canada. Presenter(s): Antonyshyn O. Sunnybrook Trauma Rounds.


2015 May 5  **Keynote Speaker.** Panfacial fractures. Current approach. Royal Australasian College of Surgeons, 84th Annual Scientific Congress, Perth, Western Australia, Australia. Presenter(s): Antonyshyn O. Total Hours: 1

**Brett Beber:** Co-chair at the Annual Toronto Breast Symposium in April 2015.

**Brett Beber:** Invited speaker, American Society of Plastic Surgical Nurses Annual Meeting, May 2015 in Montreal

**Paul Binhammer:** has been travelling as Chair for the AO North American Hand Education Committee. Through this appointment he has been trying to raise the bar of AO Trauma seminars for Hand and Wrist Fracture Management held throughout North America.

**Greg Borschel:**

2015 Jun 7  **Moderator.** Session 1 - Imaging. Sunderland Society Meeting, Ann Arbor, Michigan, United States. Michel Kliot; Michael DiPietro; Jonathan Finnoff; Hemant Parmar. Total Hours: 1

2015 Jun 7  **Moderator.** Session 2 - Adult Brachial Plexus, Peripheral Nerve, Prosthesis. Sunderland Society Meeting, Ann Arbor, Michigan, United States. Paul Cederna; Mariano Socolovsky; Kevin C Chung. Total Hours: 1

2015 Jun 7  **Presenter.** Corneal Neurotization: A minimally invasive surgical approach to treat neurotrophic keratopathy. Sunderland Society Meeting, Ann Arbor, Michigan, United States. Borschel, Gregory H. Total Hours: 1

2015 Jun 7  **Presenter.** An engineered biocompatible drug delivery system enhances nerve regeneration after delayed repair. Sunderland Society Meeting, Ann Arbor, Michigan, United States. Borschel, Gregory H. Total Hours: 1

2015 May 15  **Moderator.** Plastic Surgery Research Council, Seattle, Washington, United States. Total Hours: 1

2015 May 12  **Invited Speaker.** SickKids experience with Gracillis and the cross face nerve graft. Royal Society of Medicine, London, London, City of, United Kingdom. Presenter(s): Borschel, Gregory H. Total Hours: 1

2015 Apr 17  **Presenter.** Electrical stimulation of the proximal stump. Techniques in Brachial Plexus Symposium, Paris, Paris, France. Presenter(s): Borschel, Gregory H. Total Hours: 1

2015 Apr 11  **Panelist.** Technology in Plastic Surgery: What’s cool, What’s Hot and What’s not. American Association of Plastic Surgeons, Scottsdale, Arizona, United States. Presenter(s): Borschel, Gregory H.; Dayan, Joseph; Selber, Jesse. Total Hours: 1

2015 Mar 22  **Conducting a Master Class.** What’s new in nerve reconstruction. World Society for Reconstructive Microsurgery, Mumbai, India. Presenter(s): Borschel, Gregory. Total Hours: 1

2015 Mar 22  **Invited Speaker.** Nerve Transfers and Reconstructions. World Society for Reconstructive Microsurgery, Mumbai, India. Presenter(s): Borschel, Gregory. Total Hours: 1

2015 Feb 28  **Presenter.** Multiple Syndactyly Releases: Update. Pediatric Hand Study Group, St. Louis, Missouri, United States. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Nov 21  **Invited Speaker.** Pediatric Microvascular Surgery. Craniomaxillofacial Surgery; Pediatric Reconstructive Surgery, New Orleans, Louisiana, United States. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Oct 29  **Invited Speaker.** Pharmacologic Rescue of Motor and Sensory Function Following Neonatal Peripheral Nerve Injury. American College of Surgeons, San Francisco, California, United States. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 20  **Invited Speaker.** Nerve Repair Research - Where are we today. American Society for Surgery of the Hand, Boston, Massachusetts, United States. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Invited Speaker.** Neonatal Brachial Plexus injury reconstruction. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Invited Speaker.** Corneal Neurotization. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Invited Speaker.** Same meeting: Deepithelialization and the role of the nerve prosthesis. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Chair.** Brachial Plexus and Hand, II and III. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Chair.** Unusual Reinnervations II. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 13  **Chair.** Free Flaps II. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

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**Total Hours:**

- 1
- 2
2014 Sep 12 Invited Speaker. Pharmacologic Rescue of Motor and Sensory Function by the Neuroprotective Compound P7C3 Following Neonatal Peripheral Nerve Injury in a Rat Model. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 12 Invited Speaker. A rat study of side-to-side bridging to promote nerve regeneration after delayed surgical repair of transected nerve. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Sep 12 Invited Speaker. Facial Paralysis in Children. Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil. Presenter(s): Borschel, Gregory H. Total Hours: 1


2014 Jul 11 Outcomes following lower extremity sarcoma resection and reconstruction with vascularized fibula flaps in a paediatric population. European Society of Plastic, Reconstructive and Aesthetic Surgery, Edinburgh, Scotland, United Kingdom. Presenter(s): Sainsbury, David. (Trainee Presentation) Total Hours: 0.5

2014 Jul 10 Presenter. Advances in Nerve Regeneration, Facial Paralysis and Cornea Reinnervation. Asaf Harofeh Medical Center, Kfar Adumim, Kfar Adumim, Israel. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Jul 10 Presenter. Corneal Neurotization. Asaf Harofeh Medical Center / Grand Rounds, Kfar Adumim, Kfar Adumim, Israel. Presenter(s): Borschel, Gregory H. Total Hours: 1


2015 Apr 29 Speaker. To Learn about classic and more recent aspects of the management of the hand in Apert Syndrome. The Hospital for Sick Children; Plastic and Reconstructive Surgery Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

2015 Jan 14 Invited Speaker. Nerve Transfers; use in nerve injury and spinal cord injury. The Hospital for Sick Children; Neurology Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Dec 18 Invited Speaker. Facial transplantation. The Hospital for Sick Children; Bioethics Grand Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Dec 5 Invited Speaker. New Approaches to Enhance Recovery After Nerve Injury. University of Toronto; Department of Surgery Grand Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. To identify barriers to successful nerve regeneration. Total Hours: 1

2014 Nov 5 Invited Speaker. Brachial Plexopathy. The Hospital for Sick Children; Neurology Round, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Nov 5 Invited Speaker. Nerve Transfers. The Hospital for Sick Children; Plastic and Reconstructive Surgery Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

2014 Oct 18 Lecturer. Surgical Skills Workshop. The Hospital for Sick Children; Pediatric Interventional Radiologist Symposium, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 7

2014 Jul 23 Invited Speaker. Pediatric hand trauma. The Hospital for Sick Children, Plastic and Reconstructive Rounds, Toronto, Ontario, Canada. Presenter(s): Borschel, Gregory H. Total Hours: 1

Mitch Brown:
4 Surgical technique: How to carry out an augmentation/mastopexy. London Breast Meeting Sept. 6, 2014 London, UK
5 Direct to implant breast reconstruction. Atlantic Society of Plastic Surgery Sept. 13, 2014 Fredericton, NB
7 Breast Reconstruction Awareness: Current options and approaches Wellspring. Sept. 15, 2015 Toronto, ON
9 Direct to implant breast reconstruction: Patient selection and technique. 31st Annual Atlanta Breast Surgery Symposium - Southeastern Society of Plastic and Reconstructive Surgeons. Jan. 22, 2015 Atlanta, Georgia
10 Implant malposition, prevention and correction. 31st Annual Atlanta Breast Surgery Symposium - Southeastern Society of Plastic and Reconstructive Surgeons. Jan. 22, 2015 Atlanta, Georgia
2015 Atlanta, Georgia
12 Single stage correction of the tuberous breast. 31st Annual Atlanta Breast Surgery Symposium - Southeastern Society of Plastic and Reconstructive Surgeons Jan. 22, 2015. Atlanta, Georgia
18 Webinar - Solving challenging cases in aesthetic breast surgery.. American Society of Aesthetic Plastic Surgery. March 23, 2015 Toronto
20 My most difficult case. Paris Breast Rendez-vous Mar. 27, 2015 Paris, France
22 The right plane: subglandular, subfascia or dual plane.. Paris Breast Rendez-vous. Mar. 28, 2015 Paris, France
23 The current status of fat injection to the breast. 15th Annual Toronto Breast Surgery Symposium. Apr. 23, 2015 Toronto


Howard Clarke:
Invited Lectures and Presentations

Presented Abstracts
2015 Jun 9 Outcomes following single root reconstruction of the upper trunk in Erb’s palsy. Sunderland Society, Ann Arbor, Michigan, United States. Presenter(s): Clarke HM.
2015 Jun 8 Pain in children following microsurgical reconstruction for obstetrical brachial plexus palsy. Sunderland Society, Ann Arbor, Michigan, United States. Presenter(s): Clarke HM.
2015 Jun 6 Functional outcomes following single-root reconstruction of the upper trunk in Erb’s palsy. Canadian Society of Plastic Surgeons, Victoria, British Columbia, Canada. Presenter(s): Davidge K, Ho E, Clarke HM.
2015 Jun 6 Pain in children following microsurgical reconstruction for obstetrical brachial plexus palsy. Canadian Society of Plastic Surgeons, Victoria, British Columbia, Canada. Presenter(s): Ho ES, Curtis CG, Clarke HM.
2015 Jan 24 Pain in children with obstetrical brachial plexus palsy and primary microsurgical reconstruction. American Society for Peripheral Nerve, Nassau, Bahamas. Presenter(s): Ho ES, Curtis CG, Clarke HM.
2015 Jan 24 Functional outcome following single-root reconstruction of the upper trunk in Erb’s palsy. American Society for Peripheral Nerve, Nassau, Bahamas. Presenter(s): Davidge K, Ho E, Clarke HM.

Instructional Course

Jeff Fialkov: invited lecturer at the Israel Society of Plastic and Aesthetic Surgery for their 40th Annual Meeting in Tel Aviv, Israel in November 2014.

Jeff Fialkov: invited lecturer for the 49th Annual Meeting of the Association des spécialistes en chirurgie plastique et esthétique du Québec in February 2015 in Mount Tremblant, Quebec.

David Fisher:
Christopher Forrest:


Marc Jescke: 2014 Sep  Invited Lecturer. Burn Induced Hyperglycemia - a journey over the last 2 decades with no end in sight. Burn and Shock Trauma Research Institute, Loyola University Chicago, Health Sciences Division. Chicago, Illinois, United States. Visiting Professorship.

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


2015 Mar 11 Visiting Professor. 23th Annual Walter Scott Brown Visiting Professor. University of Illinois at Chicago, College of Medicine, Department of Surgery. Chicago, Illinois, United States.


Continuing Medical Education

4th Annual Breast Reconstruction Awareness Day (BRA Day) was held on October 15, 2014 at the Centre for the Arts, St. Michael's College School. The event was co-hosted by the Willow Breast Cancer Support Group. 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 15th Annual Toronto Breast Symposium was held on April 23rd, 2015 at the Toronto Marriott Bloor Yorkville and welcomed Visiting Professors: Dr. Grant Stevens ASPS Visiting Professor Lecturer from Marina Del Rey, CA who spoke about Augmentation Mastopexy, Dr. Maurizio Nava, The University of Toronto Annual Lecturer, spoke about Maximizing Aesthetics in Reconstructive Breast Surgery. Dr. Nava is head of the Plastic Surgery Unit at the « Instituto Nazionale dei Tumori » in Milan and Mr. Douglas MacMillan, The Michael Drener Lecturer, who spoke about Therapeutic Mammaplasty in Breast Conserving Surgery. Mr. Macmillan is from The Nottingham Breast Institute in Nottingham, UK. This symposium was chaired by Dr. Mitch Brown and co-chaired by Dr. Brett Beber, Dr. Kyle Wanzel and Dr. Jamil Ahmad.

The 45th Annual Aesthetic Plastic Surgery Symposium was held from April 24-25th, 2015 at the Toronto Marriott Bloor Yorkville and welcomed visiting professors: Dr. Sherrell J. Aston, The W.R.N. Lindsay Lecturer “Anatomy based facelift techniques” from New York; Dr. H. Steve Byrd, The Walter J. Peters Lecturer “Consistent, unchanging techniques I use in rhinoplasty” from Dallas Texas; Dr. Foad Nahai, The University of Toronto Visiting Professor “Once you know EBM in aesthetic surgery” from Atlanta, Georgia and Dr. W. Grant Stevens as The University of Toronto Aesthetic Lecturer “Nonsurgical body contouring – What works and what doesn’t” from Marina Del Rey, California.

This symposium was chaired by Dr. Jamil Ahmad and co-chaired by Dr. Frank Lista and Dr. Tom Bell.

1st 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. In addition to this, we were honored to have Dr. Mark Urata, Head of the Division of Plastic Surgery at Children’s Hospital Los Angeles give a craniofacial lecture on May 29, 2015. Mark is currently the director of Craniofacial and Pediatric Plastic Surgery at Cedars-Sinai Medical Center and co-director of the Cleft Team at Shriner’s Hospital in Los Angeles. He specializes in complex craniofacial anomalies, including craniosynostosis, syndromic reconstruction and jaw deformities.

1st UoT GTA Lectureship Series

I am delighted to announce the start of a new initiative that is called the UoT-GTA PRS Dinner Lecture Series. In an attempt to bring academic and community partners together in a combined social and educational setting, we have started a series of dinner lectures to be held approximately 4 times a year on subjects that have broad appeal to the PRS community. These evenings will be held centrally at The University Club and will take advantage of inviting well-known experts in the field to share their expertise in an informal and enjoyable setting. The first dinner lecture has been arranged for December 1st, 2014 with Dr. Jeffrey Kinkel, Professor and Vice Chairman of the Department of Plastic Surgery at the University of Texas Southwestern Medical Center at Dallas who spoke on “The Evolution in the Plastic Surgical Care of the Weight Loss Patient”. The second dinner was held on March 30, 2015 with visiting speaker Dr. Jeffrey Janis, Executive Vice Chair and Professor of Plastic Surgery at the Ohio State University, Columbus, Ohio who spoke about “The Surgical Treatment of Migraine Headaches”. The third talk for the academic year was held on May 11, 2015 with visiting speaker Dr. Elizabeth Hall-Findlay from Banff, Canada who gave a talk on “Aesthetics and Breast Surgery Planning”.

2015 Hoyle Campbell Visiting Professor

The Division of Plastic and Reconstructive Surgery shone brightly at the 31st Annual Hoyle Campbell Annual Research Day on Friday February 20, 2015 at the Peter Gilgan Centre for Research and Learning. We were exceptionally fortunate to have Dr. Susan E. Mackinnon, Shoenberg Professor, Plastic and Reconstructive Surgery Chief, Washington University School of Medicine in St. Louis, MO. Her talk on “Innovation in Nerve Surgery. Bench Top to Clinic” was quite inspiring and a wonderful highlight of the day. The residents had a wonderful time with her during their yoga session!

13th Annual Ralph T. Manktelow Hand and Microsurgery Lectureship

This year’s Ralph T. Manktelow Hand Surgery Day was held on Friday October 17th, 2014. This year’s Visiting Professor was Dr. Douglas Ross, Professor, Division of Plastic & Reconstructive Surgery, Western University, London, Ontario and Rebecca von der Heyde, PhD, OTR/L, CHT Department Chair & Associate Professor of Occupational Therapy Concordia University, Mequon, Wisconsin. Dr. Ross’ keynote address was entitled, “Challenges of Tendon Injury”.

11th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

The Eleventh Annual Lindsay Thomson Day was held at the Peter Gilgan Research and Learning Tower on June 17th and former UoT graduate, Dr. Ken Wilson was this year’s Vale Lecturer with 70 plus registrants. The symposium was designed to provide a snapshot of what is developing and going on in the world of Pediatric Plastic and Reconstructive Surgery and is unique in its multi-disciplinary nature with presentations from Occupational Therapy, Nursing, Interventional Radiology, Social Work, Physiotherapy, Genetics as well as division members. The gamut of topics included burn care in the future, cosmetic surgery in children, application of patient reported outcome measures in cleft surgery and social work issues of internationally adopted children with clefts. This symposium was established to honor the contributions of Dr. William K. Lindsay and Dr. Hugh. G. Thomson for their years of service in the field of Pediatric Plastic Surgery. Dr. Wilson is an Associate Professor in the Department of Surgery, Dalhousie University, Halifax and after graduating from UoT medical school in 1972, he completed a residency in Plastic Surgery in Halifax and then subsequently completed fellowships in Chicago, Melbourne and SickKids. He has been on staff in the division of Plastic Surgery at Dalhousie University for 32 years and has mentored many of the country’s surgeons. Ken is a stalwart supporter of Operation Smile and has been a member since 1995, participating in more than 44 missions. He gave a terrific overview lecture, focusing on many aspects of Pediatric Plastic Surgery during his years in practice.

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 Montreal. 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 As-
sociation, 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.

Graduation Gala Event

The Division of Plastic and Reconstructive Surgery celebrated the successes of its graduating class of residents at the Windsor Arms Hotel on June 25th, 2015. This event has become a staple on the social calendar of the division and was a wonderful opportunity for recognition of the highlights of the past academic year. It was also a pleasure to meet the families of the graduating residents and see everyone out of scrubs for a change.

Royal College Fellowships

Homan Cheng successfully passed her RCPSC fellowship examination.
Paul Carter successfully passed his RCPSC fellowship examination.
Blake Murphy successfully passed his RCPSC fellowship examination.
Sheikhan Al-hashmi successfully passed his RCPSC fellowship examination.

We’ve upgraded our technology by revitalizing our website so that we now have improved efficiencies, the benefits of which have been realized by the public as well as the division and university.

Medical students looking to arrange an elective or observership should be directed to our website’s Education page. All pertinent information for electives, observerships, residency training and fellowships can be found there with clear instructions for each.

Our new website enjoys an increased interest from visitors who now spend 50% more time on the website than before, and view 8% more pages per visit. 70% of our visitors are from Canada, with the rest coming from USA, UK, India, Brazil, Saudi Arabia, Australia, and other countries.

I hope that you will take the opportunity to explore and see the new face of our division: http://www.uoftplasticsurgery.ca/ Take a look at our new webpage for the Resident Aesthetic Clinic as well: http://www.uoftplasticsurgery.ca/clinic/

Cho Pang PhD, Senior Scientist, The Hospital for Sick Children 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 the Division of Plastic and Reconstructive Surgery including 3 chairs and has been recognized by the American Society of Plastic Surgeons for his achievements.

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I hope that you will take the opportunity to explore and see the new face of our division: http://www.uoftplasticsurgery.ca/ Take a look at our new webpage for the Resident Aesthetic Clinic as well: http://www.uoftplasticsurgery.ca/clinic/
Dr. Marc De Perrot has led the development of the Surgical Pulmonary Hypertension over the last decade. He has built many aspects of this program, including recruitment of surgical fellows to train specifically for this procedure, development of an international reputation attracting observers from all over the world, a complementary research program in the lab with both basic and translational aspects, and important collaborations with pulmonary medicine and interventional radiology. This program received additional funding from the Ministry of Health, in recognition of its important position as a national resource. This program also attracted a large 5 year commitment for financial support from Bayer Inc, headquartered in Germany to continue to build this as a leading global program in Pulmonary Thromboendarterectomy.

The Division had a stellar year in regards to recognition of the quality of its teachers. Dr. Kazuhiro Yasufuku won an Individual Teaching Award from the Wightman-Berris Academy. Dr. Andrew Pierre won the Department of Surgery Tovee Award, also recognizing many years of commitment to teaching of surgery. Dr. Najib Safieddine, from Toronto East General Hospital, won the Dr. J.H. Fowler Excellence in Teaching Award from the Department of Family Medicine. Dr. Safieddine has also established the Department of Surgery Quality Improvement teaching curriculum for residents in surgical programs. Dr. Cypel won the George Armstrong Peters Prize for his success as a surgeon-scientist in the early phase of his career and also was awarded a Roscoe Reid Graham Scholarship to help fund that research. Dr. Gail Darling was appointed to a very important role within Cancer Care Ontario as the Clinical Liaison Lead for lung cancer, advising not only on surgery but all aspects of lung cancer care, including screening, radiation, and systemic treatments.

Dr. Keshavjee had an incredible year with numerous organizations recognizing his contributions to Thoracic Surgery. He was appointed to the Council for the American Association for Thoracic Surgery (for the second time). He was recognized with honorary degrees from both Queen's and Ryerson Universities. Most importantly, he was appointed as an Officer of the Order of Canada.

Teaching awards were awarded to Dr. Andrew Pierre (GAIL E. DARLING AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING) and Dr. Marcelo Cypel (ROBERT J. GINSBERG AWARD FOR EXCELLENCE IN POSTGRADUATE TEACHING). Dr. Jonathan Yeung won the F. GRIFFITH PEARSON AWARD FOR BEST RESIDENT/FELLOW TEACHER.

Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2015 and included the following Visiting Faculty: Dr. Milton Saute from Israel, Dr. Rob McKenna from Los Angeles, and Dr. Sean Grondin from Calgary.

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. Yolonda Colson from Brigham and Women's Hospital in Boston. Dr. Binniam Kidane won the Award for Best Clinical Research paper and Dr. Luis Borja won the Best Basic Science Research Award.
The Division of Urology has had a productive academic year. We currently span 27 geographic full-time faculty as well as 3 full-time PhD scientists, spanned over 6 fully affiliated University-based hospitals. We train over 42 students including 23 residents and 19 fellows.

Recruitment
We had no new recruits in the Division of Urology after many recent years of active growth.

Academic Promotion
Drs. Jason Lee and Dean Elterman were appointed to Assistant 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 5.5 million dollars:

- Robert Hamilton
- Girish Kulkarni
- Michael Jewett
- Andrew Matthew
- Bharti Bapat
- Neil Fleshner
- Alexandre Zlotta
- Robert Nam

Resident/Fellow Awards
Dr. Hanmu Yan was awarded the DR Wilson (best Resident Teacher across all surgical specialties) awards.

Faculty Awards
Dr. Laurence Klotz won the Harold O Warwick Prize from the Canadian Cancer Society and was awarded an Order of Canada. He was also elected as a Fellow of the Canadian Academy of Health Sciences. He also continues as Chair of the World Uro-Oncology Federation. He was also appointed as editor of Journal of Urology.

Dr. Neil Fleshner continues as Chair of the Canadian Uro-Oncology group and was re-appointed as the Love Chair at PMH.

Dr. Ethan Grober won the Wightman-Berris Academy Postgraduate award.

Dr. Jason Lee successfully completed his continuing appointment review.

Dr. Girish Kulkarni was awarded the Langer Prize at Gallie Day and successfully completed his continuing appointment review

Division Firsts
Dr. Jason Lee performed the first in-site robotic renal auto-transplant.

A record three residents (Drs. Mitchell Goldenberg, Alaina Gardens & Keith Lawson) have entered the surgical scientist training program.

Site Updates
Hospital for Sick Children
Dr. Martin Koyle continues as site Chief at the Hospital for Sick Children. He had numerous visits as visiting speaker/professor throughout the globe. He passed his continuing appointment review as well as his degree in Health Quality Improvement.

Dr. Darius Bagli continues 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 Ontario Research Foundation and Canadian Foundation for Computer-Assisted Intervention and Innovation. He has been an invited speaker both within and outside of North America. He was appointed as “Best Reviewer” from Journal of Urology.

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.

Mount Sinai Hospital
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 has been instrumental in his role as coordinator for the Urology School lecture series. He was awarded a Wightman Berris teaching award.

Dr. Keith Jarvi continues in his role as site Chief. In addition he heads the Male Infertility Program and is 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 Soci-
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 is an integral part of our annual Robson Research Day. He was an invited speaker in the U.S. and Canada.

Dr. Alexandre Zlotta 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. Bharati Bapat continued her work in epigenetics and cancer biology in bladder and prostate cancer. She has procured large amounts of peer-reviewed funding this year and has lectured throughout the globe.

**Sunnybrook Health Sciences Centre**

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 fundamental in the organization of our Journal Club seminars.

Dr. Sender Herschorn continued his clinical research in urinary incontinence, neurogenic bladder over-activity, and erectile dysfunction with projects funded by Allergan, Astellas, and Johnson and Johnson (Contura). He was invited lecturer around the globe. He also directed the 22nd annual U of T Urology Update.

Dr. Laurence Klotz continued his research in Uro-oncology. He continues as Chair of the CURC and the World Uro-Oncology Federation (WUOF) and the International Urologic Research Society. Dr. Klotz is a global leader for testicular cancer branch of the Movember Men’s Health initiative.

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**University Health Network (TWH)**

Dr. Magdy Hassouna continued his basic and clinical work in neuourology and neuromodulation. He has been an invited speaker in Asia, Middle East, Europe and North America.

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

Dr. Dean Elterman, in his role as surgeon-investigator completed his second year as faculty. His interests are in the spheres of men's health, incontinence and reconstructive surgery. He has been extremely busy with the Green Light program.

**St. Michael's Hospital**

Dr. Kenneth Pace continued as site chief at St. Michaels Hospital. His other administrative role is as Fellowship Coordinator for the Division. He remains busy in the area of clinical epidemiology, stone disease & minimally invasive surgery.

Dr. John Honey continues in his specialty of minimally invasive surgery. He maintains his clinical research studies in lithotripsy. He has been an invited speaker in North America.

**University Health Network (TGH/PMH)**

Dr. Neil Fleschner continued as site chief at the UHN. In addition he continues his clinical and basic research in prostate cancer with many major peer-reviewed grants from CIHR, OICR, CPCR, 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, Australia, Asia and Europe. He was re-appointed as 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. His funding sources include: CIHR, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC and Pfizer. He continued as the Wyeth/CIHR Clinical Research Chair in Oncology. He has been an invited speaker on many continents.

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 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 sources include: CIHR, Canadian Cancer Society Research Institute and Pfizer. He was invited to speak across North American and Europe.

He also served as chair of the 7th Annual Uro-Oncology Dialogue meeting in Niagara on The Lake.

Dr. Andrew Matthew, clinical psychologist, continued his work in outcomes after prostate cancer therapy, with the help of his peer-reviewed funding in prostate cancer survivorship. He has been prolific in securing peer reviewed funding. He has been invited to speak across the country.

Dr. Girish Kulkarni continues his epidemiological research in bladder and prostate cancer with peer-reviewed funding. He was awarded the Langer prize at Gallie day.

Dr. Robert Hamilton continues his work on statins, SNP’s and prostate cancer. He was an invited speaker throughout Canada. He is global leader for testicular cancer branch of the Movember Men’s Health initiative.

Dr. Robert Hamilton & Girish Kulkarni both received a Postgraduate Clinical Teaching Awards. In addition, Dr. Rob Nam received a Postgraduate Surgical Teaching Award. Again this
year, Dr. Ron Kodama was awarded the Undergraduate Teaching Award.
Drs. Frank Penna, Aiden Noon & Jaimin Bhatt all won Outstanding Fellow Research awards.
Drs. Chris Wallis & Madhur Nayan tied for first place for Outstanding Resident Research award. For the second year in a row, Dr. Yonah Krakowsky was awarded the Patrick Harty Award for Excellence in Patient Care.
All of our PGY5’s (Drs. Monica Farcas, Tyler Gray, Aziz Khambat & David Horovitz) were successful in completing their Royal College exams.

Miscellaneous Lectures

Ori Rotstein Lectureship in the IMS

SpineFest: Dr. Poul

Thoracic Surgery Refresher

General Surgery Assembly: C Swallow

Tovee lecture

Balfour Lecture
Division of Vascular Surgery

Thomas Forbes, Chair

General: The 2014/15 academic year was a busy year in the Division of Vascular Surgery, marked by change, renewed cohesiveness, and a transition in leadership. After a successful 11 year term, Dr. Thomas Lindsay stepped down as Division Chair in September. In February, 25 vascular surgeons from 5 hospitals (University Health Network, Sunnybrook, St. Michael’s, Trillium, Humber) came together for our first University Division strategic planning retreat. This was an unqualified success and resulted in a new collective energy of synergy and a shared vision of “United in a Tradition of Leadership, Discovery & Excellence”. This vision, and its mission statements will drive the Division forward over the next 5-10 years and is what it will be measured against.

Leadership: One of the Division’s strategic directions is to continue to lead nationally and internationally and to train tomorrow’s leaders. Dr. Thomas Lindsay continues as Chair of the Royal College of Physicians and Surgeons Specialty Committee in Vascular Surgery, while the Canadian Society for Vascular Surgery is aptly led by many U of T faculty. Dr. Thomas Forbes serves as the CSVS President, Dr. Graham Roche-Nagle is Chair of the Research Committee, Dr. Giuseppe Papia is Chair of the Education Committee and Dr. Jonathan Cardella is Member-at-Large. Dr. Forbes continues to be Associate Editor of the Journal of Vascular Surgery, The Vascular Care Working Group of the Cardiac Care Network contributes to the coordination of care throughout Ontario, Dr. Forbes chair’s this group and other participating U of T faculty include Drs. Lindsay, Andrew Dueck, K. Wayne Johnstone and Marc Pope. At UHN, Dr. Barry Rubin continues to lead the Peter Munk Cardiac Centre as Medical Director and Dr. George Oreopoulos, our Residency Program Director, was recently appointed the Director of Postgraduate Surgical Education.

Retirement & Recruitment: Dr. Vern Campbell retired from St. Michael’s Hospital after a long career that began at Toronto East General Hospital. We were pleased to recruit Dr. Elisa Greco to St. Michael’s with a clinical expertise in advanced limb salvage techniques and hemodialysis access as well as training and interest in medical education. Dr. John Byrne was recruited to UHN as a Surgeon-Scientist and will join a multidisciplinary basic science research group that will lead to better understanding of the biology of aortic disease. Dr. Kerry Graybiel was recruited from McMaster University as a new clinical appointment at the Humber River Hospital. We were sad to see 3 faculty members move on this past summer. Dr. Jonathan Cardella was recruited to Yale University, Dr. Tony Moloney left St. Michael’s to return to his home in Saskatchewan, and Dr. Mohammed Al-Omran had very productive years in the areas of clinical research and epidemiology. Dr. Roche-Nagle continues his leadership in quality and best practices related research, with UHN and St. Michael’s continuing to be the only non-US based hospitals participating in the Society for Vascular Surgery Vascular Quality Initiative. Imaging based research, specifically MR and peripheral vascular disease, continues to be a focus and strength of the Sunnybrook group led by Dr. Andrew Dueck.

Visiting Professors: Several surgeons visited us this year including Dr. Michael Moon from the University of Alberta and Dr. Tim Sarac from Yale who joined us for our City-Wide Grand Rounds. Other visitors included Dr. Giovanni Torsello from Munster, Germany and Dr. Thomas Hatsukami from the University of Washington. Dr. Ronald Dalman joined us as the 4th Annual K. Wayne Johnston Lecturer and gave two key note addresses at our annual Research Day. Dr. Dalman is the Chidester Professor of Surgery and Chief of Vascular Surgery at Stanford University.

Awards: Dr. Al Lossing received two major awards, the Squires-Hyland Trust James Waddell Mentoring Award from St. Michael’s Hospital and the Ontario Telemedicine Network’s Champion of Telemedicine Award. Ahmed Kayssi won the FitzGerald Academy Resident-Teacher Award from St. Michael’s Hospital. Our Surgeon Scientist Training Program residents received several awards, Dr. Trisha Roy won the best paper presentation at the Winnipeg Symposium and Mohamed Hussain received research awards from PSI and CIHR. Patrick McVeigh, U of T MD/PhD student won the poster competition at the international Society for Vascular Surgery Meeting in Chicago, beating out 100 other participants.

is revamping the curriculum. Dr. Mark Wheatcroft has taken over the Fellow’s Director position. The Division is excited about offering a new fellowship in Advanced Aortic Surgery, which is a collaborative effort between the three academic hospitals and the Divisions of Vascular Surgery and Cardiac Surgery. It is a unique offering that is not replicated elsewhere.

Research: It was a productive year on the research and innovation side with faculty members participating in many aspects of research. Among others, Dr. Byrne leads the basic science initiatives at UHN, while Dr. Wheatcroft also collaborates in this area at St. Michael’s. Both UHN, under Dr. Lindsay’s leadership, and St. Michael’s with Dr. Mohammed Al-Omran had very productive years in the areas of clinical research and epidemiology. Dr. Roche-Nagle continues his leadership in quality and best practices related research, with UHN and St. Michael’s continuing to be the only non-US based hospitals participating in the Society for Vascular Surgery Vascular Quality Initiative. Imaging based research, specifically MR and peripheral vascular disease, continues to be a focus and strength of the Sunnybrook group led by Dr. Andrew Dueck.
The Hospital For Sick Children
Christopher A. Caldarone,
Surgeon-in-Chief

The Hospital for Sick Children (SickKids) is Canada’s largest pediatric academic health science center. SickKids is often compared with London’s Great Ormond Street Hospital, Boston Children’s Hospital, and the Children’s Hospital of Philadelphia. SickKids treats the sickest and most complex children in Canada. In partnership with London’s Great Ormond Street Hospital, Boston Children’s Hospital, and the Children’s Hospital of Philadelphia, SickKids is often compared with London’s Great Ormond Street Hospital, Boston Children’s Hospital, and the Children’s Hospital of Philadelphia.

Cerebral Palsy and Developmental Medicine. Dr. Howard Clarke (Plastic and Reconstructive Surgery) was appointed as Head of the UofT Department of Surgery Promotions Committee. Dr. Priscilla Chiu (General and Thoracic Surgery) was appointed Chair of the Canadian Association of Paediatric Surgeons (CAPS) Program Committee in 2015. Dr. Howard M. Clarke was appointed President of the Canadian Society of Plastic Surgeons Dr. Walid Farhat was re-appointed as Associate Surgeon-in-Chief – Education. Dr. Darius Bigli (Urology) was re-appointed as Associate Surgeon-in-Chief – Clinical. Dr. Elise Heon was re-appointed as Associate-Surgeon-in-Chief-Research (Ophthalmology).

**Division Of Cardiovascular Surgery**
The Division of Cardiovascular Surgery continues to have a high profile in the international community of congenital heart disease. Dr. Ed Hickey presented novel patient care data at the plenary session of the American Association for Thoracic Surgery using NASA concepts of threat and error. This “flight plan” approach to each patient’s care has captured the interest of a number of major centers. Dr. Osami Honjo had his clinical outcomes research presented at nearly all the significant societal meetings in the past year. Drs. Hickey and Honjo’s clinical contributions have markedly enabled greater research productivity from the rest of the Division.

Dr. John Coles and his group secured approximately one million dollars of research funding over the course of the last two years, from various sources including commercial opportunities. In 2014 his work was published in Nature Communications. Dr. Chris Caldarone became Surgeon-in-Chief at SickKids and continues his CIHR-funded research on pulmonary vein stenosis. Dr. Glen Van Arsdell was the Marc De Leval Visiting Professor at the Great Ormond Street Hospital for Sick Children. In partnership with the McMaster Population Health Research Institute, he initiated an international, prospective, 15-20 site, 3000 patient study on tetralogy of Fallot. This is the first congenital cardiac surgical study of that scope.

**Promotions And Appointments:**
Drs. Armando Lorenzo and Walid Farhat (Urology) were promoted to Associate and Full Professors of Surgery, respectively. Drs. Sevan Hopyan and Andrew Howard (Orthopaedic Surgery) were promoted to Senior Scientist and Associate Professor, respectively. Dr. J. Ted Gerstle (General and Thoracic Surgery) was appointed Associate Member of the Institute of Medical Science. Dr. Unni Narayanan (Orthopaedic Surgery) was appointed as the 2nd Vice President of the American Academy of Orthopaedic Surgeons. Dr. John Coles and his group secured approximately one million dollars of research funding over the course of the last two years, from various sources including commercial opportunities. In 2014 his work was published in Nature Communications. Dr. Chris Caldarone became Surgeon-in-Chief at SickKids and continues his CIHR-funded research on pulmonary vein stenosis. Dr. Glen Van Arsdell was the Marc De Leval Visiting Professor at the Great Ormond Street Hospital for Sick Children. In partnership with the McMaster Population Health Research Institute, he initiated an international, prospective, 15-20 site, 3000 patient study on tetralogy of Fallot. This is the first congenital cardiac surgical study of that scope.

**Departures:**
Dr. James G. Wright, Orthopaedic Surgery stepped down from the role of Surgeon-in-Chief, Chief of Perioperative Services, and VP of Medical Affairs and accepted the post of Senior Clinical Research Fellow in the Botnar Research Centre, University of Oxford and Honourary Consultant Paediatric Orthopaedic Surgeon, Oxford University Hospitals NHS Trust, UK. We wish Jim well!

**New Staff:**
New recruits include Drs. Martin Gargan and Mark Camp (Orthopaedic Surgery), Frank Papanikilalou (part-time) and Joana Dos Santos (Urology), and Kristen Davidge (Plastic and Reconstructive Surgery). Welcome! A search is underway for a new member of the Division of General and Thoracic Surgery.

**Division Heads:**
Dr. Glen Van Arsdell - Cardiovascular Surgery
Dr. Agostino Pierro - General and Thoracic Surgery
Dr. James Drake - Neurosurgery
Dr. Martin Gargan - Orthopaedic Surgery
Dr. Christopher Forrest - Plastic and Reconstructive Surgery
Dr. Martin Koyle - Urology

Many of the clinical faculty members are world-renown scientists in their own right. Our teaching mission includes education and training for medical students, residents, fellows, graduate students aspiring to careers in delivery of pediatric care. We attract Fellows from around the world and fully trained clinicians regularly attend SickKids-sponsored Continuing Medical Education (CME) events.
Division Of General And Thoracic Surgery

Dr. Georges Azzie continues to promote development of a surgical curriculum at the School of Medicine of the University of Botswana. Dr. Priscilla Chiu is on the organizing committee of the 2015 International Congenital Diaphragmatic Hernia (CDH) Workshop and continues to collaborate internationally on CDH research. Dr Annie Fecteau is conducting clinical research on consent and is developing a transitional program for children with congenital surgical anomalies. Dr. J. Ted Gerstle has been awarded funding to start a new research program on the possible roles of MR-guided High Intensity Focused Ultrasound in the treatment of pediatric tumours and in utero malformations. Dr. Shariifa Himidan continues work on international initiatives led by the UofT Department of Surgery. She continues surgical innovation collaboration with many national and international centers in surgical robotics, smart tools and simulation. Dr. Himidan is a senior member of RCPSG Specialty Exam Board in pediatric surgery. She is enrolled to obtain an MBA from D’Amore McKim School of Business, Boston North Eastern University. Dr. Jack Langer serves as the Past-President of the Canadian Association of Paediatric Surgeons (CAPS). In addition to teaching and operating internationally, he is a founder and ongoing member of the Steering Committee for the Hirschsprung Disease Research Collaborative. 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. Agostino Pierro received from her Majesty the Queen the prestigious Officer of the Most Excellent Order of the British Empire (OBE) for his contribution to medicine and research. He continues to be the Chairman of the European Pediatric Surgery Association – EUPSA Network.

Division Of Neurosurgery

The Division received numerous funding awards totalling approximately $7,000,000 supporting a variety of projects. There have been 70 new publications this year alone and our staff have been invited and presented at over 52 venues and associations around the globe. We trained five fellows and 8 residents. Dr. James Rutka was honored with the prestigious Order of Canada, Officer (O.C.). He was awarded an Honourary Degree, PhD, from the Faculty of Medicine, Bahcesehir University in Istanbul Turkey, and was co-recipient of the 2015 Robert L. Noble Prize. He maintains his role as U of T Departmental Chairman of Surgery, and Editor of the Journal of Neurosurgery. Dr. James Drake, with his CIGITI colleagues recently were awarded first prize in the Robotics Challenge at the Hamlyn Medical Robotics Symposium, London, UK for project titled “Design and Evaluation of a Concentric Tube Robot for Minimally-Invasive Endoscopic Paediatric Neurosurgery”; V. Bodani, H. Azimian, T. Looi, J.M. Drake. He heads a multidisciplinary group within the MR-guided High Intensity Focused Ultrasound project with CIGITI in the treatment of bone tumors. They were the first in North America to treat a teenage boy with an osteoid osteoma. Dr. Peter Dirks had numerous invitations around the world to present his work on Moya Moya and Medulloblastoma along with other projects. Dr. Abhaya Kulkarni has been heavily involved in the success of the Hydrocephalus Clinical Research Network (HCRN) leading the group in two projects focused on Endoscopic Third Ventriculocscopy (ETV) vs. Shunts and ETV treatments. Drs. Drake and Kulkarni continue to be active members of the HCRN embarking on a North American clinical trial focusing on the entry site of shunts for first time pediatric patients with hydrocephalus. Dr. Michael Taylor received the William E. Rawls Prize, awarded to a researcher who has made exceptional contributions to research on cancer control and, along with Dr. Rutka, was the recipient of the 2015 Canadian Cancer Society Prize. The Bruce E. Hendrick Lectureship took place at SickKids on May 22, 2015, with Professor Mark Souweidane, Weill Cornell Medical College and Memorial Sloan-Kettering Cancer Center as the guest lecturer.

Division Of Orthopaedic Surgery

Two new members were welcomed; Dr. Martin Gargan (Division Head), from Bristol, UK in September 2014 with interests in paediatric orthopaedics and trauma, specifically surgery for hip dysplasia and cerebral palsy, and Dr. Mark Davidge (Division of Orthopaedics Service Scientist Program successfully obtaining her Master of Health Policy, Management, and Evaluation. The third Hugh Davidge Award. He completed his term as Surgeon in Chief and Chief of Perioperative Services on December 31, 2015. This year’s Robert B. Salter Visiting Professor was Dr. Benjamin Joseph, a paediatric orthopaedic surgeon at Medcare Orthopaedic and Spine Hospital in Dubai. We hosted Dr. David Roye, Director of Paediatric Orthopaedics at Morgan Stanley Children’s Hospital and an attending orthopaedic surgeon at NY-Presbyterian Hospital, as our Mercer Rang Visiting Professor. The Division hosted many visiting observers from countries such as Iran, New Zealand, Japan, UK. Division members were invited as primary investigators making them the highest proportion of CIHR-funded orthopaedic surgeons in any one division in the country, presented 94 lectures and other presentations, published 51 papers and hold 18 grants. The Division continues to build the Bone Health Centre which focuses on the care of children with musculoskeletal conditions requiring multidisciplinary care and collaborative research. This year the Centre received $230K in funding and was awarded Seed Grants to support various research projects related to children’s bone health.

Division Of Plastic And Reconstructive Surgery

It has been a terrific academic year for the Division of Plastic and Reconstructive Surgery, the largest group of full-time pediatric plastic surgeons in North America with a focus on transistions and innovation. Dr Ronald Zuker officially stepped down from active clinical practice in June 2015 to assume Professor Emeritus status and will transition to a new role as the Director of Alumni Relations for the University Division and will continue his work with SickKids International (SKI), global outreach and mentoring staff and fellows. The third and latest edition of his book, Principles and Practice of Pediatric Plastic Surgery with co-editors Michael Bentz and Bruce Bauer will be released in 2016. Senior Surgeon Scientist, Dr. Cho Y. Pang, also officially retired from active scientific research and assumed Professor Emeritus status at the end of March 2015. Dr. Kristen Davidge joined the Division as an Assistant Professor and Surgeon-Scientist-track in the SickKids Research Institute. She will develop her practice in the area of obstetrical brachial plexus palsy, peripheral nerve, upper extremity and microsurgery. Dr. Davidge had a very successful residency culminating in winning the Shafie S. Fazel Outstanding Resident Surgeon and Investigator Award. She graduated from the Surgeon Scientist Program successfully obtaining her Master of Science degree in Clinical Epidemiology at the UofT Department of Health Policy, Management, and Evaluation. The third Hugh G. Thomson Award was awarded to residents Drs. Blake Murphy and Kathryn Isaac. This award was established and funded by the Division members of SickKids and acknowledges Dr. Thomson’s values of collegiality, collaboration and simply being a good human being. The Eleventh Annual Lindsay Thomson Day was held at the Peter Gilgan Research and Learning Tower on June 17th and former U of T graduate, Dr. Ken Wilson, Associate Professor in the Department of Surgery, Dalhousie University, Halifax was this year’s Vale Lecturer. This symposium was established to honor the contributions of Drs. William K. Lindsay and Hugh. G. Thomson for their years of service in the field of Pediatric Plastic Surgery. Under the supervision of Dr. Joel Fish, the SickKids Burn Program has developed a Burn Laser Program focussed specifici-
cally on scar management following pediatric burns. This is the first of its kind in Canada. Dr. Fish recently joined the membership of the American Burn Association Certification Committee. This is a very prestigious appointment and Dr. Fish’s focus is to develop standard metrics for verification of pediatric burn units. Dr. Karen Wong continues to reinforce the SickKids focus on patient-reported outcome measures in the world of Pediatric Plastic Surgery. CLEFT-Q and FACE-Q are being developed as quality of life measures with the emphasis on the value of health care being dependent on what is important to the patient. Her work on the CLEFT-Q has been incorporated into the International Consortium on Health Outcomes Measurement (ICHOM) data set on cleft outcomes. In association with Great Ormond Street (London), Erasmus Children’s Hospital (Netherlands) and Boston Children’s Hospital, Dr. Christopher Forrest is developing a standard data outcomes set for the assessment of patients with craniofacial microsomia. This initiative is being organized through the International Consortium on Health Outcomes Measurement (ICHOM) and will focus on developing outcome metrics that can be benchmarked across institutions. Under the supervision of Drs. Christopher Forrest and James Drake, PhD candidate surgeon-scientist trainee, Dr. Dale Podolsky has developed a cleft palate surgical simulator that is unique and has attracted international attention. This initiative was developed through CIGITI and is tied in with the development of a robotic approach to cleft and craniofacial surgery. Drs. Greg Borschel and Ron Zuker were the focus of significant press attention with the development of an innovative approach to re-innervating the insensitive cornea. This new surgical paradigm was developed in conjunction with Dr. Asim Ali (Ophthalmology) and has been successfully performed for the first time in the world at SickKids.

**Division Of Urology**

Dr. Joana Dos Santos, a Brazilian-trained pediatrician, is completing the first “medical pediatric urology” fellowship in Canada and will join us as a full-time faculty member this summer. We also welcomed Dr. Frank Papanikilalou as our first full-time associate. Dr. Papanikilalou completed his residency and fellowship at U of T and SickKids and is in active practice at Credit Valley. Dr. Darius Bagli’s role as Associate Surgeon-In-Chief (Clinical) at SickKids continues to expand, as does his role in directing resident research within the UoFT Urology Residency Program. His own contributions and influence in basic research work has been recognized by the American Urological Association, and this year he will be similarly honored at the European Society for Pediatric Urology (ESPU). Dr. Walid Farhat successfully ran his 8th Annual Pediatric Urology Laparoscopy course for all pediatric urology fellows across North America and has continued to innovate in simulation and direct the fellowship program in addition to his role as Associate Surgeon in Chief (Education). Dr. Martin Koyle commenced a highly competitive research-based Master’s of Science in Quality Improvement and Patient Safety at the Institute of Health Policy, Management and Evaluation (IHPEM) at the U of T and was the invited guest lecturer to the urological Society of Australia and New Zealand (USANZ) in Adelaide. Dr. David Bloom was the second Robert Jeffs Visiting Professor in Pediatric Urology at SickKids and UofT. The Division attracted its top fellowship choices for both the American Board of Urology accredited and the international two-year spots, and also attracted new clinical research physician trainees who wish to augment their experience. As we welcome our new trainees and faculty, we recognize our three superb graduates of the fellowship, Drs. Paul Bowlin, Fahad Alyami, and Naif Al Qarni, who elevated this Division and will be assets to their new medical communities. We were also deeply saddened by the loss of our colleague and long-time SickKids and U of T surgeon, Dr. Gordon McLorie who passed away in January 2015.

**Education:**

The Department of Surgery continues to have an active education program training 46 clinical fellows and 111 residents originating from 22 countries worldwide.

**Research:**

Of 42 surgeons, 25 have a total of 107 funded research programs. The Department is engaged in a wide variety of clinical and basic research supervising 31 research fellows, 30 Masters students, and 9 PhD students.

*Data based on staff with Research Institute appointments and SickKids’ administered grants.

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**Division of Cardiac Surgery**

| Dr. C.A. Califarone | 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


Hickey, Edward: European Association of Cardiothoracic Surgery, Milan, Milano, Italy, 14-16 Oct 2014. Invited Speaker: 1) Experience with the stented pulmonary valve. 2) Should we (can we) delay intervention.


Hickey, Edward: American Heart Association Scientific Sessions, Chicago, Illinois, United States, Nov 2014. Presenter: 1) NASA model of “threat and error” in paediatric cardiac surgery: death typically results from cycles of error that originate in the operating room and are amplified by additional error in intensive care. 2) Tetralogy of Fallot with hypoplastic branch pulmonary arteries: aggressive patch augmentation improves short-term geometry but increases risk of late re-intervention.


Van Arsdel, Glen Scott: Great Ormond Street Hospital, London, City of, United Kingdom, 6-8 May 2015. Visiting Professor: 1) Is your congenital surgeon causing heart failure? 2) HLHS: is there a glass ceiling. 3) Data & Medical error: Is it a cause for strength?

Van Arsdell, Glen Scott: Aarhus University Hospital, Århus, Denmark, 5 Sep 2014. Invited Lecturer: 1) Tetralogy of Fallot: Does the Surgeon Matter? 2) Mortality: Is it the Patient or Medical Error?


Research and Investigations


Honours and Awards

Coles, John: Recipient of Blueline Biosciences Research Award 2015. 10 selected from more than 150 programs across Canada. 2015.

Coles, John: MaRS Innovation-Iricor Research Consortium Award. ILK as a dual cardiac and cancer target. 2015

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

Publications


Avitzur Y, Wang JY, de Silva NT, Burghardt KM, DeAngelis M, Grant D, Ng VL, Jones N, Wales PW. The Impact of


Invited Visits


Azzie, Georges R: Georgetown University Hospital, DC, Washington, United States, 18 May 2015. Invited Speaker: Perspective on Global Surgery and International Health.

Gerstle, Justin Theodore: Hamad Medical Corporation, Doha, Ad Dawhah, Qatar, 10 Nov 2014. Invited Speaker: Why should Qatar have a Pediatric Surgical and Imaging Innovation Institute.


Langer, Jacob Charles: Canadian Association of Paediatric Surgeons, Montreal, Quebec, Canada, 19 Sep 2014. Invited Speaker: Presidential address.


Langer, Jacob Charles: Pediatric Colorectal, Motility and Pelvic Reconstruction Conference, Columbus, Ohio, United States, 12 Nov 2014. Invited Speaker: 1) Management of the newborn with an anorectal malformation. 2) Surgical management of male ARM patients. 3) Problem cases and reoperations. 4) Medical management of inflammatory bowel disease. 5) Inflammatory bowel disease: surgical concerns. 6) Hirschsprung disease: diagnosis, medical and surgical treatment. 7) Management of the child with chronic intestinal pseudo-obstruction. 8) Problematic Hirschsprung disease.


Research and Investigations


Honours and Awards

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

Himidan, Sharifa: Special Acknowledgement Residents Teaching Award, University of Toronto, Dept of Surgery, Faculty of Medicine, Canada. Award for Highest Teaching Evaluation Scores in Resident Teaching. 2013 - 2014.


Pierro, Agostino: Officer of the Most Excellent Order of the British Empire (OBE), Her Majesty the Queen and the Government of the United Kingdom, United Kingdom. Feb 2015.
Wales, Paul: The Stanley J. Dudrick Research Scholar Award, American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.), Silversprings, Maryland, United States. Jun 2015.

Division of Neurosurgery

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

Publications


Invited Visits


Dirks, Peter Benjamin: Helmholtz Zentrum Munich, Munich, Germany, 26 Feb 2015. Invited Lecturer: Lineage Tracing Brain Cancer Hierarchies.


Dirks, Peter Benjamin: MD Anderson Cancer Center, Houston, Texas, United States, 6 Jan 2015. Invited Lecturer: The Brain Cancer Stem Cell Matrix John Blaffer Lecture Series.

Dirks, Peter Benjamin: Medulloblastoma in the Mountains, Lake Tahoe, California, United States, 9 Feb 2015. Invited Lecturer: Clonal tracking medulloblastoma origins and maintenance.

Dirks, Peter Benjamin: Oncology at the Limits Symposium, Amsterdam, Netherlands, 12 Feb 2015. Invited Lecturer: Stem Cells and the Molecular Biology of Paediatric Brain Tumors.


Kulkarni, Abhaya V: National Institute of Mental Health & Neuroscience, Bangalore, Karnataka, India, Jun 2015. Visiting Professor: Lessons learned from international collaborative studies in hydrocephalus.


Rutka, James T: Lviv Hospital, Lviv, Ukraine, 26 Jun 2015. Invited Lecturer: 1) Diagnosis and Management of Pineal Region Tumours. 2) The expanding role of endoscopy in neurosurgery.
Rutka, James T: McGill University, Montreal, Quebec, Canada, 10 Dec 2014. Invited Lecturer: Recent approaches to epilepsy surgery: The Sick Kids experience. 39th Annual Preston Robb Neuroscience Day Guest Lecturer.

Rutka, James T: National Cancer Institute of Ukraine, Kyiv, Ukraine, 22 Jun 2015. Invited Lecturer: 1) Establishment of the University of Toronto Brain Tumour Bank. 2) Understanding the molecular genetics of paediatric brain tumours with emphasis on clinical relevance.


Taylor, Michael David: Beyond the Genome: Cancer Genomics, Boston, Massachusetts, United States, 9 Oct 2014. Invited Lecturer: Epigenome alterations drive lethal posterior fossa ependymomas of infancy.


Taylor, Michael David: International Conference on Brain Tumor Research and Therapy (Asilomar), Lake Tahoe, California, United States, 22 Jul 2014. Invited Lecturer: CIMP+ve Ependymomas of Infancy.


Taylor, Michael David: Section of Neurosurgery, University Hospital, University of Verona, Verona, Italy, 18 Feb 2015. Invited Lecturer: Clinical Implications of Medulloblastoma Genomics for Clinical Practice.


Research and Investigations


BTRC Tumour Repository and Database or Tumours and Associated Patient Biologicals. Meagan’s Walk. Rutka JT. ($22,428.00 CAD, 2015).


Defining the Subgroup Specific Epigenetic Landscape of Medulloblastoma. Cancer Research Society. Taylor MD. ($60,000.00 2014 - 2016).


Magnetic Resonance Guided Focused Ultrasound for Noninvasive Pain Therapy of Osteoid Osteoma in Children- A

Magnetic resonance-guided high intensity focused ultrasound for palliation of painful skeletal metastases in children. *Sick Kids Hospital; Garron Family Cancer Center*. Drake JM. ($24,966.00 2015 - 2016).

**Molecular Heterogeneity Drives the Clinical Behavior of Childhood Medulloblastoma.**

Canadian Cancer Society Research Institute (CCSRI). Taylor MD. ($1,249,880.00 2015 - 2020).


Wnt signaling control of glioblastoma stem cell fate. *Canadian Cancer Society Research Institute (CCSRI)*. Dirks PB. ($198,278.00 2014 - 2016).

**Honours and Awards**


Rutka, James T: Robert L. Noble Prize, Canadian Cancer Society, Canada. 2015.


**Division of Orthopaedics**

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<th>Name</th>
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<tr>
<td>Dr. M. Camp</td>
<td>Assistant Professor</td>
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<td>Dr. M. Gargan</td>
<td>Associate Professor (Division Head)</td>
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<td>Dr. S. Hopyan</td>
<td>Assistant Professor</td>
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<td>Dr. A. Howard</td>
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<td>Dr. S. Kelley</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**


Invited Visits


Howard, Andrew: Duke University Global Health Institute, North Carolina, United States, 1 Oct 2014. Visiting Professor: Why is Surgery a Neglected Field in International Health?

Howard, Andrew: International Skeletal Dysplasia Society, Lausanne, Vaud (fr), Switzerland, 9 Jul 2014. Presenter: Spondyloepimetaphyseal dysplasia with Leptodactyly; PTHLH Mutation with a new skeletal phenotype.

Howard, Andrew: Parachute, Canada, 7 Feb 2014. Invited Speaker: ‘Kids That Click’ - Carseat video A national educational resource for parents which will be used in pre-natal classes and car seat clinics across Canada for the next five years. Co-sponsored by General Motors, and Parachute which is Canada’s national injury prevention organization.

Howard, Andrew: Sabara Paediatric Hospital, São Paulo, Brazil, 14 Sep 2014. Keynote Speaker: 1) Paediatric Road Trauma in Brazil: The Paediatrician’s Role in Prevention. 2) Evidence Based Medicine: Its contribution to managing children’s orthopaedic conditions.

Howard, Andrew: University of Sao Paulo Department of Orthopaedics, Sao Paulo, Sao Paulo, Brazil, 12 Sep 2014. Visiting Professor: Evidence Based Orthopaedics; Osteogenesis Imperfecta.


Wright, James G: CAPHC, Calgary, Alberta, Canada, 18 Oct 2014. Invited Speaker: Canadian Paediatric Surgical Wait Times (CPSWT) Project: Power to Partnerships!

Wright, James G: Hospital for Special Surgery, New York, New York, United States, 3 Oct 2014. Visiting Professor: Surgeons are Human; Surgeon decision making in the era of evidence based medicine.

Wright, James G: Orthopaedic Grand Rounds Tachjian Visiting Professor, Chicago, Illinois, United States, 19 Sep 2014. Visiting Professor: 1) Beyond evidence based orthopaedics; 2) Getting surgeons to change their behaviour or how to make yourself unpopular with your peers; 3) Strategies to change a specialty from practice-based evidence to evidence-based practice; 4) New evidence in treatment of scoliosis and using evidence to help families make decisions; 5) Management of "simple" bone cysts.

Wright, James G: University of Oxford Girdlestone Visiting Professor, United Kingdom, 6 Dec 2014. Invited Speaker: 1) Surgeons Are Human: Surgeon Decision Making in the Era of Evidence Based Medicine, or How to make yourself unpopular with your peers; 2) A Clinical Epidemiologist in an Hospital Administrative role; Implementing an Agenda for Quality, Safety, and Efficiency Strategies to Change a Specialty from Practice-based Evidence to Evidence-based Practice.


Research and Investigations


Honours Received

**Kelley, Simon:** McMurrich Research Award - 2nd Prize, Gallie Day, Department of Surgery, The University of Toronto, Toronto. Award for best manuscript and oral presentation of scientific research performed as part of PhD at Gallie Day. Jul 2014 - Jun 2015.

**Narayanan, Unni G:** Pedal-With-Pete Foundation Award, American Academy for Cerebral Palsy and Developmental Medicine. 2014.

**Wedge, John Hall:** Doctor of Laws (L.LD) (Hon.), University of Saskatchewan. Jun 2014

**Wright, James G:** 2014 Herbie Fund Doctor of the Year, The Hospital for Sick Children, Toronto, Ontario, Canada. Nov 2014.

**Wright, James G:** Lifetime Achievement Award, The Hospital for Sick Children, Toronto, Ontario, Canada. Nov 2014.

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**Division of Plastic and Reconstructive Surgery**

| Dr. G.H. Borsch | Associate Professor |
| Dr. H. Clarke  | Professor          |
| Dr. K. Davidge | Assistant Professor |
| Dr. J.S. Fish  | Associate Professor |
| Dr. D. Fisher  | Associate Professor |
| Dr. C. Forrest | Professor (Division Head) |
| Dr. J. Phillips| Associate Professor |
| Dr. K. W-Y Won | Assistant Professor |
| Dr. R. Zuker   | Professor          |

**Publications**


Invited Visits


Borschel, Gregory H: Dr. Fausto Viterbo / UNESP, Sao Paulo State University, Botucatu, Sao Paulo, Brazil, 12-13 Sep 2014. Invited Speaker: 1) Neonatal Brachial Plexus injury reconstruction. 2) Corneal Neurotization. 3) Pharmacologic Rescue of Motor and Sensory Function by the Neuroprotective Compound P7C3 Following Neonatal Peripheral Nerve Injury in a Rat Model. 4) A rat study of side-to-side bridging to promote nerve regeneration after delayed surgical repair of transected nerve. 5) Facial Paralysis in Children. 6) Chair: Brachial Plexus and Hand, II and III.


Clarke, Howard: Sunderland Society, Ann Arbor, Michigan, United States, 8-9 Jun 2015. Presenter: 1) Outcomes following single root reconstruction of the upper trunk in Erb’s palsy. 2) Pain in children following microsurgical reconstruction for obstetrical brachial plexus palsy.


Fish, Joel Steven: Canadian Association of Wound Care (CAWC), Toronto, Ontario, Canada, 1 Nov 2014. Invited Speaker: The Future of Burn Care.


Forrest, Christopher: Birmingham Children's Hospital Craniofacial Rounds, Birmingham, United Kingdom, 4 Nov 2014. Invited Lecturer: 1) Syndromic Craniosynostosis: A management plan. 2) Positional Plagiocephaly.


Wong, Karen Wing-Yin: Pediatric Grand Rounds, McMaster University, Hamilton, Canada, 30 Oct 2014. Invited Speaker: Measuring Outcomes that Matter to Patients: An International Study to Develop and Validate a Patient-Reported Outcome (PRO) Instrument for Cleft Lip and/or Palate: The CLEFT-Q.

Wong, Karen Wing-Yin: Pre-Conference Symposium, 72nd Annual Meeting of the American Cleft Palate-Craniofacial Association (ACPA), Palm Springs, United States, 20-21 Apr 2015. Invited Panel Presenter: 1) Taking our pulse – evaluating our teams’ individual and team outcome goals. 2) Pulling it together – developing a road map/playbook to bring this back to our team. 3) Invited Speaker: CLEFT-Q - Whose ideal is it anyway.

Wong, Karen Wing-Yin: Symposium on Challenges in Craniofacial Registries, European Craniofacial Conference, Goteborg, Sweden, 26 Jun 2015. 1) Invited Panel Presenter: CLEFT-Q: Measuring patient-reported outcomes in children and young adults with cleft lip and/or palate. 2) Presenter: A patient-reported outcome measure for patients with cleft lip and/or palate: field-testing the CLEFT-Q.

Wong, Karen Wing-Yin: Texas Children's Hospital, Houston, Texas, United States, 1 May 2015. Invited Lecturer: Measuring what matters: development of the CLEFT-Q.


Zuker, Ronald: Cleveland Clinic, Weston, Florida, United States, 10 Feb 2015. Invited Lecturer: 1) Facial Paralysis Reconstruction in Children. 2) The Broad Brush of Pediatric Microsurgery.

Zuker, Ronald: Ichilov Hospital, Tel Aviv, Israel, 18 Nov 2014. Invited Lecturer: Reconstruction in Extensive Facial Congenital Nevi.


Zuker, Ronald: Texas Children's Hospital Grand Rounds, Houston, Texas, United States, 4-5 Dec 2014. Invited Lecturer: 1) Conjoined Twins: Etiology, Classification, Surgical Separation and Lessons Learned. 2) Facial Reanimation.


Research and Investigations


Enhancement of nerve regeneration with controlled release of neurotrophic factors. CIHR. Borschel G, Gordon T, Shoichet MS. ($20,000.00 2014-2016)

Honours Received


Zuker, Ronald: 2014 University of Toronto Research Award, University of Toronto, Faculty of Medicine. Nov 2014.


Division of Urology

Dr. D.J. Bägli Professor
Dr. W.A. Farhat Professor
Dr. M.A. Koyle Professor (Division Head)
Dr. A.J. Lorenzo Associate Professor

Publications


Invited Visits


Koyle, Martin Allan: Royal Children’s Hospital, Melbourne, Australia, 8 Apr 2015. Visiting Professor: Current Perspectives on Surgical Management of Pediatric Renal Tumors.
Koyle, Martin Allan: Urological Society of Australia and New Zealand, 68th Annual Scientific Meeting, Adelaide, South Australia, Australia, 13-14 Apr 2015. 1) Invited Lecturer: Where will pediatric urology be in 2025? 2) Facilitator: Transition of Paediatric patients to adult urologists: pitfalls and other challenges. 3) Facilitator: What to do when the baby isn’t a boy or a girl? 4) Facilitator: The current management of the duplex kidney, ureterocele and ectopic ureters in children. 5) Facilitator: Pediatric urology training in the USA, how do we do it? 6) Invited Lecturer: Guidelines to doing harm and avoiding these.

Lorenzo, Armando J: Caja del Seguro Social, Panama, Panama city, Panama, Panama, 28 Feb 2015. Visiting Professor: Current management of bladder extrophy: Lecture and surgical workshop.

Lorenzo, Armando J: Children’s Hospital Boston, Boston, Massachusetts, United States, 8 Sep 2014. Invited Lecturer: 1) Case discussion, pediatric urology. 2) Antenatal hydronephrosis: Our current tendencies in medical and surgical management. 3) Surgical issues in pediatric renal transplantation: The value of a team approach.


Research and Investigations


Honours Received

PGY1 Welcome Party
Mount Sinai Hospital

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

Division of General Surgery
Publications – 57
New Grants – 14
Awards - 1

Division of Orthopaedics
Publications – 37
New Grants – 5
Awards – 3

Division of Urology
Publications – 29
New Grants – 13
Awards - 2

Division of General Surgery

Cohen, Zane Professor
Easson, Alexandra M. Assistant Professor
Gladly, Rebecca Assistant Professor
Govindarajan, Anand Assistant Professor
Gryfe, Robert Neil Assistant Professor
Kennedy, Erin D. Associate Professor
MacRae, Helen M Professor
McCart, Judith Andrea Associate Professor
McLeod, Robin S. Professor
Swallow, Carol Jane Professor (Division Head)

Publications


Leon-Carlyle M, Schmocker S, Victor JC, Maier BA, O'Connor BI, Baxter NN, McLeod RS, Kennedy ED. Prevalence of physiologic sexual dysfunction is high following treatment for rectal cancer: but is it the only thing that matters? Diseases of the Colon and Rectum. 2015.


Sandhu L, Tomlinson G, Govindarajan A. NSAID Use is Associated with an Increased Risk of Anastomotic Leak after Colorectal Surgery: Results of a Frequentist and Bayesian Meta-Analysis. 2015.


**Invited Visits**

Gladdy, Rebecca: 10th Annual Canadian General Surgery Review, Toronto, Ontario, Canada, 27 Feb 2015. Presenter:
Soft Tissue Sarcomas.


Kennedy, Erin D: American Society of Colon and Rectal Surgeons, Boston, Massachusetts, United States, May 2015. Speaker: Are patients willing to accept an increased risk of local recurrence for deferral of surgery relative to abdominal perineal resection following complete clinical response for low rectal cancer?


Research and Investigations


Precision Sarcoma Research Program for Soft Tissue Sarcoma (Personalized Precision Medical Treatment for Patients with Soft Tissue Sarcoma) at Mount Sinai Hospital. Carlo Fidani Foundation. Wunder J, Gladdy RA, Andrusis I. ($1,500,000.00 Feb 2014 - Mar 2018).


Honours Received

McLeod, Robin S: 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

Invited Speaker: 1) Personalized Approach to the Painful Aseptic Total Knee Arthroplasty. 2) Video Techniques in Revision Total Knee Replacement Lecture pertaining to use of distal femoral replacement for periprosthetic fractures.


Invited Speaker: A Recipe for Radical Curricular Change in Postgraduate Surgical Training.

Ferguson, Peter: Beijing Cancer Centre Sarcoma Symposium, Beijing, China, 14 Mar 2015. Visiting Professor: Building a Better Bone - Evolution of Endoprosthetic Design for Primary Bone Tumours.


Ferguson, Peter: Dewar Club, San Francisco, California, United States, 6 Feb 2015. Speaker: Complex Reconstruction of the Acetabulum for Metastatic Disease.

Ferguson, Peter: Shenyang Cancer Centre Sarcoma Symposium, Shenyang, China, 15 Mar 2015. Visiting Professor: Building a Better Bone - Evolution of Endoprosthetic Design for Primary Bone Tumours.


Kuzyk, Paul: Canadian Arthroplasty Society 2014 Annual Meeting, Toronto, Ontario, Canada, 22 Nov 2014. Presenter: Up to Five Year Follow-Up of a Focal Constrained Acetabular Liner used for Revision Total Hip Arthroplasty.


Safir, Oleg: COA, Vancouver, British Columbia, Canada, 18-19 Jun 2015. Presenter: 1) Up to Five Year Follow-Up of a Focal Constrained Acetabular Liner used for Revision Total Hip Arthroplasty. 2) A biomechanical comparison of four methods of treatment for periprosthetic distal femur fractures. 3) Comparison of arthroplasty to cephalomedullary nailing for perprosthetic hip fractures.

Safir, Oleg: V International Conference “INNOVATIVE EDUCATIONAL TECHNOLOGIES IN MEDICINE”, Moscow, Russian Federation, 26 Sep 2014. Invited Speaker: Competency Based Curriculum.


Wunder, Jay Steven: EMSOS 2015 - 28th Annual Meeting of the European Musculo-Skeletal Oncology Society, Athens, Greece, 1-3 May 2015. Distinguished Speaker: 1) Identification of CD146 as a marker of tumor-propagating cells in human sarcomas leads to novel treatment opportunities. 2) Navigated joint sparing bone tumor resections. 3) Efficacy of Denosumab with special reference to its role in joint preservation as an adjuvant in the management of giant cell tumor of bone. 4) Giant cell tumor of the distal radius: is resection better?
Wunder, Jay Steven: McGill University, Montreal, Canada, 14 May 2015. Visiting Professor: 1) Soft Tissue Sarcoma: The Therapeutic Ratio. 2) From the Lab to the Mouse to the Patient: Advances in Orthopaedic Oncology. 3) Cemented vs Unemented Stems in Oncology: A Toronto/Montreal Rivalry.


Wunder, Jay Steven: Musculoskeletal Tumor Society AAOS, Las Vegas, United States, 28 Mar 2015. Invited Speaker: Clinical and Translational Molecular Data of Denosumab in GCT.

Research and Investigations


Engineering of irradiation-sterilized skeletal allografts for improved clinical outcomes. CIHR. Willett T, Sone ED. ($100,000.00 2014-2015).


Honours Received


Gross, Allan: Award of Fellowship Ad Hominem, The Royal College of Surgeons of Edinburgh, Birmingham, Edinburgh, City of, United Kingdom. Oct 2014

Safir, Oleg: Faculty of Medicine Awards for Excellence in Postgraduate Medical Education – Development & Innovation, University of Toronto, Toronto, Ontario, Canada. Recognition of Excellence in Education for Surgical Prep Camp. 2014.

Division of Urology

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

Publications


Zlotta AR, Kuk C. Prevalence of prostate cancer across the globe: what can autopsy studies teach us about this peculiar disease? Arch Esp Urol. 2014. 67(5):400-408.

Invited Visits

Jarvi, Keith: American Society of Andrology, Salt Lake City, Utah, United States, 20 Apr 2015. Chair: Special Concerns for Older Fathers.


Zlotta, Alexandre: Society of Urologic Oncology, Maryland, United States, 5 Dec 2014. Moderator: Bladder Cancer Session II.


Research and Investigations


Promoting Physical and Mental Health in Men Facing Fertility Issues. (Co-Investigator). Canadian Institutes of Health Research (CIHR). Boy’s and Men’s Health. Lo KCL, Zelkowitz P, Dr. Benard, Dr. Chan, Da Costa D, Dr. Dennis, Dr. Eells, Dr. Josepy, Dr. Loiselle, Dr. Rosberger, Dr. Semenic, Dr. Takefman, Dr. Tulandi, Dr. Holzeris. ($1,265,478.00 CAD, Nov 2014 - Apr 2019).


Zlotta, Alexandre: 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

Zlotta, Alexandre: Basic Science Research Award, University of Toronto/2014 Charles J. Robson Research Day, Canada. Associated with (mentor) Basic Science Research Award -1st Prize A non-invasive urine-based epigenetic urinary biomarker panel for the detection of bladder cancer and the discrimination of high-grade and low-grade disease. 2014 -
This is the first report for North York General Hospital to be included in the University of Toronto, Department of Surgery Annual report. North York General Hospital is a busy community teaching hospital. The hospital is a very popular choice for learners of all types, but in particular for those interested in surgery. The hospital has been among the most requested rotations for general surgery residents over the last number of years.

The Division of General Surgery is our largest division and consists of twelve surgeons with various subspecialty interests. The division head is Dr. Nancy Down. The pillars of our division consist of breast cancer, GI oncology, abdominal wall reconstruction, and acute care surgery (ACS). The number of residents has been steadily increasing based on very strong evaluations of the program. Based on the positive feedback, we have implemented new core rotations in ACS and breast surgery. This year Dr. Peter Stotland won the Bob Mustard Mentorship Award which is given by all the final-year general surgery residents to the staff surgeon who provided the most mentorship to them. Dr. Stan Feinberg is a former winner of this same award and is currently the Assistant Program Director for the University of Toronto, Division of General Surgery. Dr. Brian Pinchuk organized a very well received mock oral exam session for the graduating residents. The breast cancer group under Dr. Nancy Down recruited Dr. Fahima Osman to join our division. Fahima has an interest in oncoplastic breast surgery. This same group was the first in the GTA to start using radioactive seed localization for nonpalpable breast lesions.

The Division of Plastic Surgery is headed by Dr. Bernd Neu. It consists of six plastic surgeons who provide full-service plastic surgery. The group recruited Dr. Ron Somogyi this year to formalize a breast reconstruction program. Plans are formulated to start a microvascular free flap program in the near future.

The Division of Orthopaedics is one of the busiest in the city. The division head is Dr. Hossein Mehdian. The division consists of eight orthopaedic surgeons with subspecialty interests in hip and knee arthroplasty, shoulder and upper extremity, foot and ankle, and sports orthopaedics. They perform approximately 1400 hip and knee replacements annually. The group along with our Anesthesia Department started a program of same-day discharge for shoulder arthroplasty patients this year.

The Division of Urology is a busy clinical division of five surgeons. The division head is Dr. Roger Buckley. The division offers a very popular elective for urology residents. The group is well known for advanced MIS urology. The group started an Acute Care Surgery (ACS) program in Urology this year with protected daytime OR access two days per week for urgent and emergency cases.

Overall this has been a very good year for us at NYGH. We are looking forward to the challenges and opportunities that this next year will bring.

Farewell Dinner for Dean Whiteside
Clinical excellence in surgery as well as an outstanding educational experience for undergraduate, graduate and post-graduate trainees continues to be the hallmark of the Department of Surgery at St. Joseph’s Health Centre. Our surgical priority programs (hepatobiliary, thoracic surgery, bariatrics, arthroplasties) continue to maintain or grow in volumes. There has been a significant increase in the number of clinical clerks from the University of Toronto who rotate through the surgery program at St. Joseph’s. 2015 marks the establishment of a unique outpatient surgical teaching clinic. Developed in parallel with the establishment of a general surgery ‘acute care service’ the clinic is supervised by the surgical chief resident and provides a prospective opportunity for learners to see patients in follow-up that they have evaluated in the emergency department and, often, have operated on. This is felt to be an excellent longitudinal educational experience that prepares trainees for transition to surgical practice.

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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<tr>
<td>Orthopedic Surgery</td>
<td>Amr El Maraghy</td>
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<tr>
<td>Plastic Surgery</td>
<td>Craig Fielding</td>
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Education

Dr. Tom Harmantas (General Surgery), and Dr. Amr El Maraghy (Orthopedic Surgery) were promoted to the level of Associate Professor.

Dr. Shiva Jayaraman was director of this year’s Canadian Surgical Forum held in Quebec City.

Dr. Chris Compeau was appointed to chair of the Thoracic Surgery Royal College examination committee.

Dr. Kyle Wanzel (Plastic Surgery) was a recipient of the ‘Above and Beyond’ surgical award.

Divisional teaching award winners 2014:

General/thoracic surgery – Dr. M. Blitz
Urology – Dr. A. Chawla
Plastic surgery – Dr. R. Levine
Orthopedic surgery – Dr. A. El Maraghy

Division of General Surgery

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<tr>
<td>Dr. C. Compeau</td>
<td>Assistant Professor</td>
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<td>Dr. T.A. Harmantas</td>
<td>Associate Professor</td>
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<td>Dr. R.S. Hart</td>
<td>Lecturer</td>
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<td>Dr. S. Jayaraman</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. D.R. Lindsay</td>
<td>Lecturer</td>
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<td>Dr. P.A. Sullivan</td>
<td>Lecturer (Division Head)</td>
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Division of Orthopaedics

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<tr>
<td>Dr. W.A. El Maraghy</td>
<td>Assistant Professor (Division Head)</td>
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<td>Dr. M. Kliman</td>
<td>Lecturer</td>
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<td>Dr. M. Roscoe</td>
<td>Assistant Professor</td>
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<td>Dr. G. Vincent</td>
<td>Assistant Professor</td>
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<td>Dr. M. Wood</td>
<td>Lecturer</td>
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Division of Plastic and Reconstructive Surgery

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<tr>
<td>Dr. C. Fielding</td>
<td>Lecturer (Division Head)</td>
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<td>Dr. L. Kasrai</td>
<td>Assistant Professor</td>
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<td>Dr. R.H. Levine</td>
<td>Professor</td>
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<td>Dr. R.K. Wanzel</td>
<td>Assistant Professor</td>
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Division of Thoracic Surgery

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<tr>
<td>Dr. Maurice Blitz</td>
<td>Division Head</td>
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<td>Dr. Michael Ko</td>
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In April, St. Michael’s Hospital officially broke ground on a new construction project, The Peter Gilgan Patient Care Tower. This will be a 17-storey patient care tower that will house many patient care areas including areas for those that are critically ill. We have begun the planning for our new state-of-the-art operating rooms. There will also be renovations to the existing Shuter, Bond, and Cardinal Carter buildings that will enlarge and modernize the current size of the Emergency Department, as well as enhance some other patient care areas. This past year, St. Michael’s Hospital and our partners have been working hard to implement the goals and objectives of our 2015-2018 strategic plan. This plan focuses on our vision of leadership in urban health and focuses on three patient priority areas such as caring for our critically ill, providing comprehensive care to our urban community, and advancing systems of care for disadvantaged patients.

We welcomed two new faculty members to St. Michael’s Hospital this past academic year. Dr. Adena Sheer joined the Division of General Surgery. Adena completed her general surgery residency at the University of Ottawa before embarking on a Surgical Oncology Fellowship at the University Toronto. As part of her fellowship she training in Paris, France, gaining experience in oncoplastic breast surgery. Her area of clinical expertise is in breast surgical oncology and oncoplastic breast surgery. Her research focuses is on decision support and knowledge translation with emphasis on shared decision making.

Dr. Elisa Greco joined the Division of Vascular Surgery. Dr. Greco completed her general surgery residency, followed by a residency and fellowship in Vascular Surgery through the University of Toronto. During that time she completed a research fellowship and obtained her Master’s Degree in Education through the Ontario Institute for Studies in Education at the University of Toronto. Dr. Greco’s clinical focus is renal access, wound care and limb salvage, open and endovascular intervention for peripheral arterial disease. Her research interests include vascular enhanced recovery, research in education, and wound management of diabetic foot ulcers.

In December 2015, Dr. Vern Campbell retired. Dr. Campbell joined the Department of Surgery at St. Michael’s Hospital in 2005 when the Toronto East General Hospital Division of Vascular Surgery amalgamated with Division of Vascular Surgery at St. Michael’s Hospital. Dr. Campbell had a natural talent for teaching, and focused his clinical practice on access surgery for hemodialysis patients. His research interest was in the area of improving outcomes. We wish him all the best as he embraces retirement.

This year we celebrated the 10th Annual St. Michael’s Hospital Physician Achievement Awards. These awards are given to those who have dedicated their time and commitment to the educational mission at many levels over the past year. Dr. Ori Rotstein won the Donald J. Currie Teaching Award in Undergraduate Education; Dr. Jesse Wolfstadt won the McGooey Teaching Award in Orthopaedic Surgery; Dr. Michael McKee won the William Horsey Postgraduate Teaching Award; Dr. Michael Cusimano won the Jameel Ali Award in Continuing Education Award in Surgery; Dr. Daniel Abramowitz won the Leo J. Mahoney Resident Teaching Award and Dr. R. John Honey was honoured with the Squires-Hyland Trust, James Waddell Mentoring Award. Many other faculty have won various awards and accolades in the areas of teaching, clinical, and research. In the research realm, Dr. Teodor Grantcharov was awarded a Canada Research Chair in Simulation and Surgical Safety. Drs. Emil Schemitsch, Aaron Nauth and Mike McKee were awarded a CIHR Operating Grant, and Dr. Joao Rezende was awarded a CIHR Proof of Principle Grant. Dr. Nancy Baxter has received the Institute of Health Services and Policy Research Article of the Year from the Canadian Institutes of Health Research. In the clinical realm, Dr. Mark Peterson and his team were the first in North America to replace a narrowed aortic valve through a neck incision, rather than the chest or groin.

Six of our faculty members were successfully promoted this year. Dr. Nancy Baxter, Dr. Tim Daniels, Dr. Teodor Grantcharov, Dr. Wolfgang Kuebler and Dr. David Latter have all been promoted to the rank Full Professor. Promoted to the rank of Associate Professor was Dr. Tom Schweizer.

As we move into the next academic year, we look forward to the opportunities and collaborations with our partners.
Division of Cardiac Surgery

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

Publications


Invited Visits


Peterson, Mark: Faculty at 25th Annual International Symposium on Adult Congenital Heart Disease, Faculties of Oregon Health & Science University, Cincinnati Children’s Hospital Medical Center, University of Cincinnati, University Health Network, University of Toronto, Toronto, Ontario, Canada, 4 Jun 2015. Invited Speaker: Surgical Approaches to Hereditary Aortopathies: When is Surgery Indicated and What are the Surgical Options?


Research and Investigations

Division of General Surgery

Dr. N. Ahmed Associate Professor
Dr. J. Ali Professor
Dr. N. Baxter Associate Professor (Division Head)
Dr. J.M.A. Bohnen Professor
Dr. M.J. Burnstein Associate Professor
Dr. S. de Montbrun Assistant Professor
Dr. R. George Associate Professor
Dr. T. Grantcharov Associate Professor
Dr. A. Kapus Professor
Dr. W. Kuebler Associate Professor
Dr. B. Lawless Assistant Professor
Dr. J.C. Marshall Professor
Dr. J. Rezende-Neto Associate Professor
Dr. S. Rizoli, Professor
Dr. O. Rotstein Professor
Dr. A.S. Scheer Assistant Professor
Dr. J.S. Simpson Lecturer
Dr. K. Szaszi Associate Professor

Publications


Ziesmann MT, Alotaiby N, Al Abassi T, Rezende-Neto JB. Gallstone Ileus Obstructing Within an Incarcerated Lumbar Hernia - An Unusual Presentation of a Rare Diagnosis. British Medical Journal - Case Reports. 2014 Dec; doi: 10.1136/bcr-2014-208213.

Invited Visits


George, Ralph: Huntsville District Memorial Hospital, Huntsville, Ontario, Canada, 27 May 2015. Invited Speaker: Challenges in treating breast cancer in young and elderly woman.


Grantcharov, Teodor: European Colorectal Congress, Munich, Germany, 3 Dec 2014. Invited Speaker: Initiatives to Enhance Surgical Performance in the Operating Room.


Marshall, John C: 35th Surgical Infection Society Meeting, April 16-18, 2015, Westlake Village, California, United States, Apr 2015. Invited Speaker: From inflammation to the Multiple Organ Dysfunction Syndrome.


Rezende-Neto, Joao: American College of Surgeons Trauma Quality Improvement Program Annual Meeting - 2014, Chicago, Illinois, United States, 9 Nov 2014. Speaker: Venous Thromboembolism Prophylaxis in Trauma: How are we doing?


Rotstein, Ori: Trauma Association of Canada, Calgary, Alberta, Canada, 10 Apr 2015. Presenter: Three indications for the ‘Open Abdomen’ anatomical, logistical and physiological: How are they different?


**Grants, Contracts and Clinical Trials**

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).


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


Long-term live fluorescent imaging system for monitoring site-specific functions in epithelia. NSERC. Kapus A. ($900,000 2014-2020)


Surgical coaching - using tele-mentoring to provide error debriefing, behavioral modeling and error recognition to enhance surgical skills. *Association for Surgical Education (ASE).* Grantcharov TP. ($15,000.00 USD, Apr 2015 - Apr 2015).

Temperature, Heart and Respiratory Rate Investigation with Variability Evaluation and Serum Biomarkers THR-RIVES) to provide early and specific warning of infection. *The Ottawa Hospital Academic Medical Organization.* Marshall JC, Seely AJE. (CAD, Oct 2014 - Sep 2017).


The development of feasible, reliable and valid in-training milestones as a means to assess technical and non-technical competence in General Surgery trainees. *PSI Foundation.* Szasz P, Grantcharov TP. ($19,000.00 CAD, Feb 2015 - Feb 2016).


The Inference From Observational Research Methods (INFORM) Project. *Canadian Institutes of Health Research (CIHR).* Urbach D, Baxter NN, Bell CM, Gagliardi AR, Tomlinson GA. ($501,724.00 CAD, Oct 2014 - Sep 2018).

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 and Awards**

**Baxter, Nancy:** Institute of Health Services and Policy Research Article of the Year, Canadian Institute of Health Research (CIHR), Ottawa, Ontario, Canada. 2015.

**George, Ralph:** Cause Leadership Award, Canadian Breast Cancer Foundation, Canada. Jul 2014 - Jun 2015.

**Grantcharov, Teodor:** Honorary Member of the Danish Surgical Society, Danish Surgical Society, Copenhagen, København City, Denmark. Nov 2014.

**Grantcharov, Teodor:** Jameel Ali Continuing Education Award, St. Michael’s Hospital, General Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Jul 2014.

**Marshall, John C:** Academia Colombiana de Medicine Critica. 2014.

**Marshall, John C:** Squires-Hyland Trust Teaching Award, St. Michael’s Hospital. Dept of Surgery, Faculty of Medicine. 2015.


**Rotstein, Ori:** Jeffrey C. Lozon Physician Leadership Award, St. Michael’s Hospital, Ontario, Canada. Dec 2014.

**Simpson, Jory S:** Certificate of Recognition to Speciality Clinic, St. Michael’s Hospital. Dedication to providing care to women with breast cancer. Apr 2015.
Division of Neurosurgery

Dr. M.D. Cusimano  Professor
Dr. S. Das  Assistant Professor
Dr. H. Ginsberg  Assistant Professor
Dr. R. Macdonald  Professor
Dr. R.G. Perrin  Associate Professor
Dr. T.A. Schweizer  Assistant Professor
Dr. J. Spears  Assistant Professor (Interim Division Head)

Publications


Invited Visits

Cusimano, Michael David: 680 News, Ontario, Canada, 29 Sep 2014. 1 in 5 Ontario teens suffer concussion or brain injury that could lead to chronic issues.

Cusimano, Michael David: Counsel and Heal, Ontario, Canada, 26 Nov 2014. Teens with Traumatic Brain Injury are more likely to Abuse Drugs.


Cusimano, Michael David: Medical Xpress, Ontario, Canada, 11 Dec 2014. One in six Ontario adults say they have had a traumatic brain injury in their lifetime Media Article in response to Associations between a history of traumatic brain injuries and current cigarette smoking, cannabis use, nonmedical opioid use, and elevated psychological distress in a population sample of Canadian adults.

Cusimano, Michael David: Medical Xpress, Toronto, Ontario, Canada, 26 Nov 2014. Teens with a history of TBI are nearly 4 times more likely to have used crystal meth.

Cusimano, Michael David: NHL, United States, 29 Apr 2015. Lawyers seek all NHLers’ records since 1967 “One study published by Michael Cusimano, a neurosurgeon at St. Michael's Hospital in Toronto, found that the number of concussions and suspected concussions rose to 84 during the 2011-12 season, up from 44 two years earlier in 2000-10”.

Cusimano, Michael David: NOW, Toronto, Ontario, Canada, 15 Jan 2015. 740 homeless people have died on Toronto streets since 1985. We think.

Cusimano, Michael David: Ottawa Citizen, Ottawa, Ontario, Canada, 20 Dec 2014. 'It's tragic': Smiths Falls' Neil Doef latest potential case of hockey spinal trauma.
Cusimano, Michael David: Science Codex, Toronto, Ontario, Canada, 26 Nov 2014. Teens with a history of TBI are nearly 4 times more likely to have used crystal meth.


Cusimano, Michael David: The Toronto Star, Toronto, Ontario, Canada, 26 Nov 2014. Teens with brain injury are more likely to abuse drugs.


Ginsberg, Howard: Jikei University Hospital, Tokyo, Tôkyô [Tokyo], Japan, 22 Sep 2014. Visiting Professor: Naviga - tion and Ultrasound Improve Quality and Outcomes in Spinal Surgery.


Research and Investigations


Resting state functional MRI as a predictor of cognitive outcome after brain tumour resection. St. Michael's Hospital, MR Steering Committee. Das S, Graham A, Schweizer T. ($10,000.00 CAD, Feb 2015 - Feb 2016).


Ultrasound Navigated Spinal Fusion Surgery”. NSERC. Ginsberg H. ($120,000.00 CAD, Apr 2014 - Apr 2015).


Honours and Awards

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


Invited Visits

Research and Investigations

A randomized trial of retrograde nailing versus locked plated for periprosthetic fractures of the distal femur. Orthopaedic Trauma Association (The) (OTA). Nauth A, Schemitsch EH. ($80,000.00 CAD, Jan 2015 - Dec 2017).

A retrospective cohort study of short and long-term reoperation rates after proximal humerus fracture management in the elderly. Orthopaedic Trauma Association (The) (OTA). McKeel M, Bonyun ME. ($19,600.00 CAD, Jan 2015 - Dec 2015).

Biomechanical determination of the optimal overlap between a sliding hip screw plate and retrograde intramedullary nail for repairing an ipsilateral intertrochanteric and femur shaft fracture. Orthopaedic Trauma Association (The) (OTA). Schemitsch EH, Olsen M, Zdero R. ($19,980.00 CAD, Jan 2015 - Dec 2015).

Endothelial progenitor cells for the biological augmentation of rotator cuff repair. PSI Foundation. Schemitsch E. ($20,000.00 2014-2015).


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).


Omega Fellowship Grant in Adult Reconstruction. Omega Foundation. Schemitsch EH. ($48,000.00 CAD, Jan 2014 - Dec 2016).

Omega Fellowship Grant in Trauma. Omega Foundation. Schemitsch EH. ($10,000.00 CAD, Jan 2014 - Dec 2015).

Omega Residency/General Education Grant. Omega Foundation. Schemitsch EH. ($3,045.00 CAD, Jan 2014 - Dec 2015).


The use of antibiotics combined with an induced membrane technique for bone defect healing. Orthopaedic Trauma Association (The) (OTA). Schemitsch EH, Watt E. ($20,000.00 CAD, Jan 2014 - Dec 2015).

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).


Honours and Awards


Bogoch, Earl R: IOF Capture the Fracture Gold Award, International Osteoporosis Federation, Switzerland. For the Osteoporosis Exemplary Care Program, St. Michael's Hospital, Toronto, Canada, for meeting the Gold Level criteria of the Capture the Fracture programme. 2014

Bogoch, Earl R: Squires-Hyland Trust Teaching Award (Orthopaedics), Squires-Hyland Trust. 2015

Daniels, Timothy: 2014 Roger A. Mann Award (Best Clinical Paper), AOFAS (American Orthopaedic Foot & Ankle Society), Chicago, Illinois, United States. “Multi-Center prospective comparison of PROMIS physical function CAT to traditional instruments for foot and ankle disorders”. Sep 2014

Division of Plastic and Reconstructive Surgery

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

Grants, Contracts and Clinical Trials


Division of Urology

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

Publications


Lee JY, Yousef GM. Profilin-1 Expression is Associated with High Grade and Stage and Decreased Disease-Free Survival in Cell Renal Cell Carcinoma. Human Pathology. 2014.


Invited Visits


Research and Investigations


Is Extracorporeal Shockwave Lithotripsy for the Treatment of Kidney Stones a Risk Factor for Developing Diabetes Mellitus? *Department of Surgery, University of Toronto, Roscoe Reid Graham Scholarship In Surgical Science*. Ordon M. ($25,000.00 CAD, Jul 2014).


Honours and Awards


Lee, Jason: Peritoneal Dialysis Centre of Excellence, Ontario Renal Network. St Michael's Hospital Peritoneal Dialysis Program has been awarded the Distinction of Peritoneal Dialysis Centre of Excellence. Jan 2015.


Division of Vascular Surgery

Dr. M. Al-Omran  Professor (Division Head)
Dr. V. Campbell  Assistant Professor
Dr. E. Greco  Assistant Professor
Dr. A. Moloney  Assistant Professor
Dr. W. Tanner  Assistant Professor
Dr. M.D. Wheatcroft  Assistant Professor

Publications


The 2014-15 academic year within the Department of Surgery at Sunnybrook provided an opportunity to achieve greater focus with our new strategic plan for the Trauma Program, involving heavily the Divisions of General, Orthopaedic, and Neurosurgery. In addition, we expanded our quality improvement activities within the American College of Surgeons (ACS) National Surgical Quality Improvement Program and began participation in the Trauma Quality Improvement Program. We have advanced our academic mission through the recruitment of three surgeon-investigators and a scientist, achieving greater alignment with the research activities within Sunnybrook Research Institute. We have bolstered our undergraduate surgical education activities with a new Lunch with the Professor series and brought the TEAM (Trauma Evaluation and Management®) (TEAM®) course to Sunnybrook campus. Lastly, we were fortunate to host the Tile Lecture in Trauma with Dr. James Kellam (University of Texas, Houston), speaking on Orthopedic Trauma: An Evolution of Care.

Recruitment

Dr. Julie Hallet was recruited to the Division of General Surgery as a surgeon investigator with a clinical focus on hepatobiliary oncology and expertise in health services research. Dr. Hallet will advance our activity in minimally invasive surgery.

Dr. Patrick Henry was recruited to the Division of Orthopaedic Surgery as a surgeon investigator with a clinical focus on upper extremity and trauma. His primary research priorities include sporting injuries to the shoulder and rotator cuff tears.

Dr. David Wasserstein was recruited to the Division of Orthopaedic Surgery as a surgeon investigator with a clinical focus on soft tissue and ligament reconstruction and sports medicine. The focus of Dr. Wasserstein’s research is the clinical outcomes of soft tissue injury, surgery and reconstruction.

Dr. Saied Nik was recruited to the Burn Centre and the Division of Plastic and Reconstructive Surgery as a scientist at Sunnybrook Research Institute (Biological Sciences Platform) with a focus on stem cells and skin regeneration.

Departures

Dr. Manuel Dibildox, from the Division of Plastic and Reconstructive Surgery and Ross Tilley Burn Centre moved on to the Mayo Clinic to undertake a training program in plastic surgery.

Division Reports

Cardiac surgery

Dr. Stephen Fremes won the Department of Surgery Charles H. Tator Surgeon-Scientist Mentoring Award for his remarkable track record mentoring graduate students over his career.

Neurosurgery

Dr. Victor Yang’s innovations in surgical navigation were highlighted by the CBC and the Royal College. Dr. Leo Da Costa was promoted to Associate Professor.

General Surgery

Dr. Shady Ashamalla assumed the role of Division Head, General Surgery (interim). Dr. Natalie Coburn was named the Hanna Chair in Surgical Oncology. Dr. Frances Wright was named the Temerty Chair in Breast Surgery. Dr. Homer Tien was awarded the Department of Surgery Undergraduate Teaching Award. Dr. Paul Karanicolas was the recipient of the Department of Surgery’s Roscoe Reid Graham Scholarship.

Plastic and Reconstructive Surgery

Dr. Oleh Antonyshyn received the Marvin Tile Award for his outreach activities in the Ukraine. His work was also recognized by Canada’s Minister of Foreign Affairs, Rob Nicholson who committed $1.2 million in support of this initiative. The Division and the Department of Surgery invested in critical equipment in the surgical skills laboratory to develop a simulator for microvascular reconstruction to the benefit of all trainees across the city. Dr. Shar Shahrokhi was promoted to Assistant Professor.

Urology

Dr. Laurie Klotz received the Canadian Cancer Society’s O. Harold Warwick Prize for his significant advances in cancer control. He was also appointed as a member of the Order of Canada for his contributions to the treatment of prostate cancer, notably for leading the adoption of active surveillance as a standard aspect of patient care. Dr. Sender Herschorn received a presidential citation from the American Urological Association for his contributions related to his research for the treatment of urinary incontinence and over active bladder.

Orthopaedic Surgery

Dr. Richard Jenkinson successfully passed his continuing appointment review and recognizing his research productivity, was reclassified as a surgeon investigator. Dr. John Cameron won the Thomas R. Loudon Award honouring him for his outstanding service in the advancement of athletics related to his contributions to sports medicine.

Vascular Surgery

Dr. Giuseppe Papia and Dr. Andrew Dueck were featured on CTV news (Canada AM) for their innovative work on lower extremity angioplasty and limb salvage.
Division of Cardiac Surgery

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

Publications


Deb S; Fremes SE. To bypass or stent? The changing rules of an advancing game. JTCVS. 2015 Mar; 149(3): 679-81.

Deb S; Fremes SE. Are you ever too old? JTCVS. 2015 Jan; 149(2): 485-86.


Invited Visits

Grants, Contracts and Clinical Trials
A simulation-based Curriculum for Training in OPCAB. Sunnybrook Education research Funds. Moussa F. ($10,000.00 CAD, Mar 2013).
Sodium Selenite Administration IN Cardiac Surgery (SUSTAIN CSX®-trial). Canadian Institutes of Health Research (CIHR). Frenses S, Heyland DK. ($232,415.00, Jan 2014 - Jan 2016).
Honours and Awards
Frenses, Stephen: Charles H. Tator Surgeon-Scientist Mentoring Award, The Surgeon Scientist Program (SSP) at the University of Toronto. Dept of Surgery, Faculty of Medicine. May 2015

Division of General Surgery

Dr. S. Ashamalla Assistant Professor
Dr. F.D. Brenneman Associate Professor
Dr. P.T.Y. Chu Associate Professor
Dr. N. Coburn Associate Professor (Division Head)
Dr. D. Fenech Assistant Professor
Dr. J. Hallet Assistant Professor
Dr. C. Holloway Associate Professor
Dr. P.J. Karanicas Assistant Professor
Dr. C. Law Professor
Dr. N.J. Look Hong Assistant Professor
Dr. B. Nascimento Assistant Professor
Dr. A.B. Nathens Professor
Dr. T.M. Ross Associate Professor
Dr. A.J. Smith Professor
Dr. H. Tien Associate Professor
Dr. L. Tremblay Assistant Professor
Dr. F. Wright Associate Professor

Publications


Gagliardi AR, Nathens AB. Exploring the characteristics of high-performing hospitals that influence trauma triage and transfer. J Trauma Acute Care Surg. 2015 Feb;78(2):300-5.


Metcalfe KA, Zhong T, Narod SA, Quan ML, Holloway C, Hofer S, Bagher S, Semple J. A prospective study of mastectomy patients with and without delayed breast reconstruction: Long-term psychosocial functioning in the breast cancer


Invited Visits


Hallet, Julie: Canadian Centre for Applied Research in Cancer Control, Montréal, Quebec, Canada, 15 May 2015. Speaker: Health System Costs of the Pre-diagnosis Phase in Neuroendocrine Tumours.


Holloway, Claire: Cancer Care Ontario, Toronto, Ontario, Canada, 30 Jan 2015. Invited Speaker: The Disease Pathway Management Approach to Cancer Care Delivery.


Karabicolas, Paul Jack: University of Saskatchewan, Saskatoon, Saskatchewan, Canada, 5-6 Mar 2015. Invited Speaker: 1) VTE Prophylaxis Following Major Cancer Surgery Department of OB/Gyn Grand Rounds. 2) VTE Prophylaxis Following Major Cancer Surgery Hematology Rounds. 3) Contemporary Management of Colorectal Liver Metastases General Surgery Resident Half Day. 4) VTE Prophylaxis Following Major Cancer Surgery Department of Surgery Grand Rounds.


Nascimento, Barto: CIRV FM 88.9, Toronto, Ontario, Canada, 10 Jan 2015. Radio show guest: The Life of a Trauma Physician.


Nathens, Avery B: Southwest Trauma & Acute Care Symposium, Phoenix, Arizona, United States, Nov 2014. Invited Speaker: TBI management for the Trauma Surgeon.


Tien, Homer: CAWC and CAET, Toronto, Ontario, Canada, 1 Nov 2014. Invited Speaker: Trial and Tribulations from the Military Field Wounds and Wounding Patterns from Canada’s War in Afghanistan.


Wright, Frances: Canadian Association of General Surgeons, Vancouver, British Columbia, Canada, 19 Sep 2014. Invited Speaker: General surgery graduates feel prepared for practice but is there a practice available?


Wright, Frances: Update in MCCs, LHIN 8, Markham, Ontario, Canada, 25 Nov 2014. Invited Speaker: Update on MCCs in Ontario.

Research and Investigations


Trauma system development in Ontario: a survey of potential barriers and enablers for an inclusive system. Sunnybrook Health Sciences Centre General Surgery Associates Research Grant. Nathens AB. ($10,000.00, Apr 2015 – Mar 2016).


Honours Received

Coburn, Natalie: Sherif and Mary Lou Hanna Chair for Surgical Oncology Research. Endowed Chair. Jan 2015

Fenech, Darlene: The Bruce Tovee Award for Undergraduate Teaching, Dept of Surgery, Faculty of Medicine. 2014


Nathens, Avery B: Carolyn Tuohy Impact on Public Policy Award, University of Toronto, Toronto, Ontario, Canada. 2014.

Nathens, Avery B: de Souza Chair in Trauma Research, Sunnybrook Health Sciences Centre & the University of Toronto. May 2014


Division of Neurosurgery

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

Publications


Invited Visits

Research and Investigations


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


Honours Received

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

Division of Orthopaedics

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<tr>
<th>Name</th>
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<tr>
<td>Dr. T.S. Axelrod</td>
<td>Professor</td>
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<tr>
<td>Dr. H.U. Cameron</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. J.C. Cameron</td>
<td>Assistant Professor</td>
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<td>Dr. J.A. Finkelstein</td>
<td>Associate Professor</td>
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<td>Dr. M. Ford</td>
<td>Assistant Professor</td>
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<td>Dr. J. Golish</td>
<td>Assistant Professor</td>
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<td>Dr. R. Holtby</td>
<td>Assistant Professor</td>
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<td>Dr. R. Jenkinson</td>
<td>Assistant Professor</td>
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<td>Dr. H.J. Kreder</td>
<td>Professor (Division Head)</td>
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<td>Dr. P. Marks</td>
<td>Associate Professor</td>
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<td>Dr. J.J. Murnaghan</td>
<td>Associate Professor</td>
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<td>Dr. D. Nam</td>
<td>Assistant Professor</td>
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<td>Dr. M. Nousiainen</td>
<td>Assistant Professor</td>
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<td>Dr. R.R. Richards</td>
<td>Professor</td>
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<tr>
<td>Dr. D.J.G. Stephen</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. V.M.R. Wadew</td>
<td>Associate Professor</td>
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<td>Dr. D. Wasserstein</td>
<td>Assistant Professor</td>
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<td>Dr. C. Whyne</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. C.S. Wright</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. A. Yee</td>
<td>Professor</td>
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Publications


Finkelstein J. Handbook of Bone Metastases, Second Edition. Bedard, Gillian; Wong, Erin; Goh, Philiz; Chow, Edward. (eds), 2nd Edition. 2014. Canada: Odette Cancer Centre, Sunnybrook Hospital. This book was printed with the support of an educational grant from Bayer HealthCare Pharmaceuticals Inc. Editor.


Holuby R, Boljanovic D, Wright S, Murnaghan JJ. Association between Neuropathic Pain and Reported Disability Following total Knee Replacement. 2015 Jan 7.


Jenkinson R, Canadian Orthopaedic Trauma Society. “A prospective multicentre randomized controlled trial comparing the Less Invasive Stabilization System (LISS) to the minimally invasive Dynamic Condylar Screw system (DCS)”. J Orthop Trauma. 2015.

Jenkinson R. Chapter 9: Principles of Plate fixation: Rib fracture applications. In: Mckee; Schemitch (eds), Injuries to the Chest Wall. 2015. Springer.


John J Murnaghan MD, Lorcan McGonagle MD. Blood Management Strategies in Lower Limb Arthroplasty. Ortho-


Yang W, Yee AJ. Versican 3'-untranslated region (3'UTR) promotes dermal wound repair and fibroblast migration by regulating miRNA activity. Biochim Biophys Acta. 2014 Jul; 1843(7): 1373-85.

**Invited Visits**


Axelrod, Terry S: AO North America Basic Principles of Fracture Management Course, AO Trauma North America,
Markham, Ontario, Canada, 20-23 Nov 2014. 1) Chair. 2) Speaker: The history of fracture care.


Finkelstein, Joel A: International Association for Quality of Life Annual Meeting, Berlin, Germany, 16 Oct 2014. Invited Speaker: What can content analysis of the medical record tell us about the physician-patient communication?

Finkelstein, Joel A: Liaoning Cancer Hospital and Institute, Dalian University, Shenyang, China, 15 Mar 2015. Invited Speaker: Minimally invasive approaches to metastatic disease to the spine.


Kreder, Hans Juergen: AO Trauma North America, Toronto, Ontario, Canada, 14-17 May 2015. Invited Lecturer: 1) Outcomes of Pelvic Trauma Management and Avoidance of Complications Discussion of the potential complications involved in managing pelvic trauma and how to minimize manage them, 2) Anterior Surgical Approaches to the Pelvis and Acetabulum Guiding surgeons through an understanding of the application and execution of the anterior pelvic approaches with a view to managing complex pelvic and acetabular fractures. 3) Acute Management of High Energy Pelvic Trauma Discussion aimed at improving understanding and management of the patient who presents in shock with multiple complex system injuries and a pelvic ring injury.

Kreder, Hans Juergen: AO Trauma: Fellows Cadaver Symposium, Las Vegas, Nevada, United States, 24 Jan 2015. Invited Lecturer: Surgical Approaches to the Elbow and Forearm: The Dorsal Thompson Approach Advanced surgical exposures for trauma fellows. This module was on the surgical exposures about the elbow and forearm.


Nousiainen, Markku: Department of Orthopaedic Surgery, University of Texas Medical School, Houston, Texas, United States, 19 Dec 2014. Presenter: “Am I a competent resident? 5 Years of Competency Based Training in the Orthopaedic Surgery Residency Training Program at the University of Toronto” Departmental Grand Rounds.


Wadey, Veronica Marie Rita: New Territories Command of Hong Kong St. John Ambulance Brigade, Hong Kong, 1 Sep 2014. Invited Speaker: “Pre-hospital management of open fractures”.

Yee, Albert: Liaison Cancer Hospital and Institute, Dalian University - The First International Summit Forum Musculoskeletal Oncology of North East China, Beijing, Liaoing, China, 15 Mar 2015. Distinguished Speaker: Translating Research from the Bench to Clinic: Multimodal therapy in vertebral metastasis -- preliminary results of a Phase I Clinical Trial of Vertebral Metastasis.

Yee, Albert: Sarcoma Professional Committee, Chinese Anti-Cancer Association - Second International Summit Forum of New Concept in MSK Oncology, Beijing, China, 14 Mar 2015. Distinguished Speaker: (Keynote Speaker) Translating Research from the Bench to Clinic: Multimodal therapy in vertebral metastasis -- preliminary results of a Phase I Clinical Trial of Vertebral Metastasis.

Yee, Albert: Sarcoma Professional Committee, Chinese Anti-Cancer Association - Second International Summit Forum of Bone and Soft Tissue Tumor, Beijing, China, 14 Mar 2015. Distinguished Speaker: (Keynote Speaker) Translating Research from the Bench to Clinic: Multimodal therapy in vertebral metastasis -- preliminary results of a Phase I Clinical Trial of Vertebral Metastasis Summit forum with audience of 100 orthopaedic surgeons specialized in musculoskeletal tumour from all around China.

Research and Investigations

Application of thermal cycling to minimize biofilm formation on orthopedic metal implants. Katchky R, Bellisario E, Akens M, Kreder H, Finkelstein J. ($20,000.00 CAD, Apr 2015 - Apr 2016).


The Assessment of Entrustable Professional Activity's (EPA's) using simulation. OMeGA Medical Grant. Nousiainen M, Dwyer T. ($8,909.00 USD, May 2014 - present).


Treatment of Periprosthetic Distal Femur Fractures: A Randomized Controlled Trial of Locking Plate Osteosynthesis versus Retrograde Intramedullary Nailing. Orthopaedic Trauma Association (The) (OTA), Zimmer/OTA. Nauth A. ($78,749.00 CAD, Jan 2015 - Dec 2016).

Honours Received


Nam, Diane: Clinician Investigators Award in the Holland Musculoskeletal (HMSK) program, Toronto, Ontario, Canada. $75,000.00 CAD. 2014 - 2017.

Nousiainen, Markku: Howard Rosen Table Instructor Award, AO North America, AO North America, Toronto, Ontario, Canada. Nov 2014.

Division of Plastic and Reconstructive Surgery

Dr. O.M. Antonyshyn  Professor  
Dr. P. Binhammer  Assistant Professor (Division Head)  
Dr. R. Cartotto  Associate Professor  
Dr. M. Dibildox  Lecturer  
Dr. J.A. Fialkov  Associate Professor  
Dr. M.G. Jeschke  Professor  
Dr. J.E. Lipa  Associate Professor  
Dr. A.D. Rogers  Assistant Professor  
Dr. S. Shahrokhi  Assistant Professor  
Dr. L. Snell  Assistant Professor  

Publications


**Invited Visits**


Jeschke, Marc G: Burn and Shock Trauma Research Institute, Loyola University Chicago, Health Sciences Division, Chicago, Illinois, United States, Sep 2014. Invited Lecturer: Burn Induced Hyperglycemia: a journey over the last 2 decades with no end in sight Visiting Professorship.


Jeschke, Marc G: Canadian Association of Wound Care, Toronto, Ontario, Canada, 1 Nov 2014. Distinguished Speaker: The future of burn care.


Lipa, Joan Elizabeth: Eighth Annual QMP Reconstructive Surgery Symposium, Chicago, Illinois, United States,
1-3 Nov 2014. 1) Faculty: Inframammary Fold Position in Implant-Based Surgery. 2) Faculty: Master Classes: Implant-Based Breast Reconstruction: Techniques, Adjunctive Procedures (ADM & Fat Grafting), Complications, Secondary Exchanges, & Salvage of the Failed Breast Implant Reconstruction. 3) Session Moderator: Pearls and Pitfalls Panel: Top Pitfalls and Mistakes that People Make in My Area of Focus and How to Fix Them - Solutions to Challenging Problems. 4) Faculty: Optimizing Donor Site Aesthetics Following DIEP Flap Harvest. 5) Faculty: Melanoma: Current Concepts on Treatment.


Research and Investigations


Honours Received

Division of Urology

| Dr. L.K. Carr | Associate Professor |
| Dr. S. Herschorn | Professor |
| Dr. L. Klotz | Professor |
| Dr. R.T. Kodama | Professor (Division Head) |
| Dr. R.K. Nam | Professor |
| 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. Lipid Insights. 2015 Feb.


Venier N., Yamamoto T., Fleshner NE., Sugar L.M., Klotz LH, Venkateswaran V.. Capsaicin may reduce the metastatic burden in the transgenic adenocarcinoma of the Mouse Prostate (TRAMP) model. The Prostate. 2015.


Invited Visits
Klotz, Laurence: Brazilian Urologic Oncology Symposium, Sao Paolo, Sao Paulo, Brazil, 10 Apr 2015. Keynote Speaker: ‘The future of urologic oncology’ and other topics.
Klotz, Laurence: Hong Kong Urological Society, Hong Kong, Hong Kong, 6 Nov 2014. Distinguished Speaker: Cardiovascular Morbidity with LHRH agonists vs antagonists.
Klotz, Laurence: SIU, Glasgow, United Kingdom, 15 Oct 2014. Chair: Master Class on Active Surveillance.
Klotz, Laurence: University of Hong Kong Dept of Surgery, Hong Kong, 10 Nov 2014. Invited Lecturer: Active Surveillance in Asian populations.

Nam, Robert K: Laval University, Quebec City, Quebec, Canada, 5 Feb 2015. Visiting Professor: Prostate Cancer treatment complications.

Venkateswaran, Vasundara: Shandong University School of Medicine, Jinan, Shandong, China, Oct 2014. Visiting Professor: Impact of diet, dietary agents and exercise in prostate cancer progression.

Research and Investigations


The role of Radium 223 in the management of men with high risk PSA recurrent non-metastatic prostate cancer initiating intermittent androgen deprivation therapy: An investigator sponsored study. Bayer Pharmaceuticals. Klotz L, Multicentre national trial (15 collaborating sites). ($1,800,000.00, Dec 2014 - Dec 2018).

The xViva CTC capture chip: A device for tumor cell sorting and classification. CIHR. Nam RK, Kelley SO. ($160,000.00 2014-2015)

Honours Received
Klotz, Laurence: Fellow, Canadian Academy of Health Sciences. May 2015
Klotz, Laurence: Lister Prize, Department of Surgery, University of Toronto. May 2014 - Jul 2014.
Division of Vascular Surgery

Dr. A. Dueck  Assistant Professor (Division Head)
Dr. D.S. Kucey  Assistant Professor
Dr. R. Maggisano  Associate Professor
Dr. G. Papia  Assistant Professor

Publications


Invited Visits

Dueck, Andrew: Tremblant Vascular Group, Mont Tremblant, Quebec, Canada, 14 Feb 2015. Invited Speaker: When and Why to use covered stents.

Papia, Giuseppe: Canadian Association of Wound Care (Collaboration with the Memorial University of Newfoundland on a Prevention and Management of Diabetic Foot Complications Symposium), Newfoundland, Newfoundland and Labrador, Canada, 20 Sep 2014. Invited Speaker: Key Expert Session.

Papia, Giuseppe: Canadian Association of Wound Care, Toronto, Ontario, Canada, 31 Oct 2014. Invited Speaker: The 20th Annual Conference of the Canadian Association of Wound Care (CAWC) in collaboration with the Canadian Association for Enterostomal Therapy (CAET).


Honours Received

Dueck, Andrew: Undergraduate Award for Excellence in Teaching, Sunnybrook Health Sciences Centre, Vascular Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. May 2014 - Jun 2015.

Neurosurgery Softball Team in Central Park NYC
Our vision is simple – we want Toronto East General Hospital (TEGH) to be the best place to work as a community surgeon, the best place for our loved ones and patients to receive surgical care and the best place for our surgical learners to train.

The Department of Surgery at TEGH has 4 core divisions, a shared division of critical care and a pediatric dentistry program. This past year has been a very active year for all divisions. The Surgical Health Service completed 11,644 operative cases in Fiscal Year (FY) 2013/14 (compared to 11,319 in FY 2012/13). We are on-track this FY to complete over 11,700 cases. The Department of Surgery accounts for the largest proportion of cases within the Health Service.

Along with the rest of the organization, we support patient safety initiatives such as falls prevention, skin ulcer prevention, ventilator-associated pneumonia prevention and blood borne central line-related infections. Our Department embodies the spirit of “Setting a New Standard” by focusing our scholarly activity to the following areas:

1. Quality integrated surgical care
2. Multidisciplinary oncology care
3. Teaching
4. Patient engagement
5. Innovation

Quality integrated surgical care: Dr. Mary-Anne Aarts continues as site lead for BPIGS that includes 8 other hospitals in the GTA (15 hospitals in Ontario), which encompasses multiple safety and quality initiatives standardized across the University of Toronto hospitals. These include initiatives targeted towards reducing antibiotic usage prior to surgery, bowel preparation prior to colorectal surgery and normothermia during abdominal surgery. Mary-Anne has been instrumental in launching the Enhanced Recovery after Surgery (ERAS) initiative that is a multi-disciplinary initiative to improve recovery and reduce hospital stay and complications following colorectal surgery at TEGH and throughout Toronto. This is supported by a grant from Colon Cancer Canada. This initiative has been successful at TEGH mainly due to the tremendous collaboration between the Departments of Surgery, Anesthesia and Nursing.

Our Division of Orthopedic Surgery sets the standard for fiscally responsible quality patient-focused care. Our surgeons, anesthesiologists and nursing partners have been successful in dropping the number of patients waiting for surgery following hip fracture to one of the lowest levels in the city.
We have been working with mobile technology start-up companies to develop SMS alerts and mobile device educational material for patients undergoing lung surgery. Pre-operatively patients get alerted to stop certain medications or to prepare overnight bags. Post operatively patients can access educational material and enter data into a digital logbook that alerts patients if self-reported symptoms indicate a complication. The data is captured and surgeons can collect data on patients returning to ER, calling the office for assistance or going to the family doctor for problems.

**Innovation:** Dr. R. Singal live-tweeted a robotic-assisted prostatectomy and continues to lead our Department in social media influence, which has heightened our profile. He has successfully co-ordinated case reviews, journal club discussions and topic reviews on Twitter.

We have re-located the endoscopy suite, bronchoscopy suite and recovery rooms, cystoscopy and minor surgery to the 6th floor creating a self-contained “surgicentre”. This was a combined effort from Departments of Surgery, Medicine, Anesthesia and Nursing and as a result we have been able to maximize efficiency in staff and equipment thereby driving down our costs and mak-
ing a “one-stop shop” for patients in our community. Our efforts were recognized by the MOHLTC as “innovative and groundbreaking”.

We are expanding our telemedicine focus. We have been participating in Ontario Telehealth Network (OTN) clinics, which requires both patient and physician at OTN centres. We have successfully launched Personal Computer Video Conferencing (PCVC) which enable the physician to be anywhere while the patient still registers at OTN clinics. We have now embarked on SecureVideo that is completely secure 2-way video conferencing enabling patients and physicians to meet from anywhere.

I am very grateful to have the opportunity to outline the accomplishments of our Department and I am looking forward to working with all of our University colleagues and partners in the future.

Division of General Surgery

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

Division of Orthopaedics

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

Division of Plastic and Reconstructive Surgery

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

Division of Urology

Dr. R. Groll  Lecturer
Dr. R.K. Singal  Assistant Professor
Dr. P. Vlaovic  Lecturer

Dinner with Michael Dan
The Division of Cardiovascular Surgery at the Peter Munk Cardiac Centre continues to enjoy strong growth in its clinical and academic programs. During the 2014-15 academic year, the division recruited two new surgeons: Dr. William Stansfield is a graduate of the University of North Carolina surgical training program and will augment our advanced heart failure team. He is a Surgical-Scientist with a research interest in myocardial remodeling. Dr. Mitesh Badiwala is a graduate of our training program and completed an advanced fellowship in valvular repair at Northwestern University in Chicago. He has assumed the surgical leadership of our cardiac transplant program and his research interests involve the development of an ex-vivo cardiac perfusion system for cardiac transplant. The adult congenital surgeons, under the direction of Dr. Edward Hickey, have successfully launched an innovative program to provide long-term mechanical circulatory support to patients with complex congenital heart disease.

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. We have recently recruited Dr. Cedric Manlhiot to spearhead our clinical epidemiology unit and leverage our IT infrastructure within the institution. Dr. Ouzounian has solidified a multidisciplinary team to provide surgical management for thoracic aortic disease. Several members of the Division continue to serve in key administrative roles including the Provincial Chair of Cardiac Surgery for the Cardiovascular Care Network (Dr. Chris Feindel), director of the Trillium Gift of Life Network (Dr. Vivek Rao) and Dr. Hugh Scully serves as a rare 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.

The Division of General Surgery proudly acknowledges another successful year, with several faculty awards and accomplishments in clinical, teaching, and research. A number of faculty members were recipients of prestigious grants and awards. Mark Cattral received a Canada Foundation for Innovation (CFI) grant to establish a Centre for Islet Research and Therapeutics. Anand Ghanekar was awarded the Cancer Research Society Grant for his project: Phenotypic and Transcriptional Characterization of Tumor-Inhibiting Cells in Primary Human Hepatocellular Carcinoma. Two faculty members were awarded AEF Innovation Fund Grants: Tulin Cil: An Online Enhanced Education Tool for Young Women Newly Diagnosed with Breast Cancer and Timothy Jackson: Development and Implementation of a Surgeon Cost Report Card: Behavioural Economics Applied to Surgical Cost Containment. Catherine O’Brien’s work on Targeting colorectal cancer-initiating cells by Activation of RIG-1/MDA5 Pathway was awarded a grant by the The Princess Margaret Cancer Centre Foundation.

The Frank Mills Award for Excellence in Teaching by a Faculty Member was awarded to Catherine O’Brien, who also received the Early Researcher Award (ERAs) from the Ontario Ministry of Economic Development and Innovation. Timothy Jackson was awarded the David Fear Fellowship. David Urbach received the CIHR Article of the Year Award for his publication in the New England Journal of Medicine titled “Introduction of surgical safety checklists in Ontario, Canada”.

Steven Gallinger was honoured with The Joseph and Wolf Lebovic Chair in HPB Surgery. Markus Selzner was promoted to Associate Professor. The Division of General Surgery was well represented outside the University Health Network / University of Toronto as well. Timothy Jackson became the Provincial Lead for the Ontario Surgical Quality Collaborative. Alice Wei was appointed Lead, Quality and Knowledge Transfer, Surgical Oncology.
The Orthopaedic Division has had an exceptionally productive year with several key milestones being achieved. Under the leadership of Dr. Raj Rampersaud the Inter professional Spine Assessment Centre (ISAEC) project successfully showed improvement in access and outcomes for the management of patients with low back pain while at the same time saving money. The MOH LTC has now decided to roll out the ISAEC model across the province as their strategy for the management of low back pain. Dr. Rampersaud has also been asked to co-chair the Provincial QBP panel for low back pain. Dr. Jas Chahal in collaboration with the other members of the Division is leading the first North American clinical trial of autologous Mesenchymal Stem Cell’s for the treatment of knee osteoarthritis. Dr. Rajiv Gandhi was selected to be the 2015 American British Canadian (ABC) travelling fellow. This is the most prestigious Orthopaedic travelling fellowship in the world for mid-career academic Orthopaedic surgeons. Dr. Christian Veillette established a big data analytics program in collaboration with Dr. Igor Jurissica leveraging the successful development of the DADOS IT platform that was completed last year. Overall, the division published over 100 peer reviewed publication and was successful in obtaining peer reviewed funding from numerous agencies including CIHR. Collectively the Division continued its fundraising efforts and to date the Campaign to Cure Arthritis has raised $40 million.

Division Of Plastic Surgery

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

The breast program at UHN is planning to become a National Accreditation Program for Breast Centers (NAPBC)-accredited program of excellence in quality care, patient satisfaction, staff support, and clinical outcomes. Agnes Wisniewski (UHN Breast Reconstruction CNC) and Dr. Toni Zhong attended the Workshop in Denver in April 2015.

Dr. Brent Graham of the TWH – Hand Program has been appointed as the Editor in Chief of The Journal of Hand Surgery and Dr. Steve McCabe was appointed a Visiting Plastic Surgery Professor by the American Society for Surgery of the Hand. The Upper Extremity Update and UHN’s Manktelow Day – Hand Therapy Program have come together this year October 16-17, 2015 to provide a centralized forum for orthopaedic surgeons, plastic surgeons, nurses & occupational/physical therapists to collaborate and learn. Dr. Stefan Hofer co-organized the Wharton Research Day at the Princess Margaret Hospital Cancer Centre. Dr. Anne O’Neill and Dr. Toni Zhong were invited speakers at several Breast Cancer Awareness events throughout the GTA.

Dr. Toni Zhong received Canadian Breast Cancer Foundation (CBCF) grant funding 2015 – 2018, was awarded with the CIHR New Investigator Award and the CIHR Foundation Scheme Program Grant 2013 – 2020 for the Development of a National Quality Improvement Program in Postmastectomy Breast Recon-
The Division of Urology has had a productive academic year. We currently have 11 geographic full-time faculty and 1 full-time Psychologist/Researcher. We train over 24 students including 13 residents and 11 fellows. We had no new recruits in the Division of Urology after many recent years of active growth. Dr. Dean Elterman was appointed to Assistant Professor. The Division of Urology had a solid year in terms of peer-reviewed grant capture. The following faculty served as Principle Investigators or Co-Principal Investigators on peer-reviewed grants totaling over 3.5 million dollars. Dr. Girish Kulkarni successfully completed his Continuing Appointment Review. Dr. Neil Fleshner continues as Chair of the Canadian Uro-Oncology Group and was re-appointed as the Love Chair at PMH. Dr. Girish Kulkarni was awarded the Langer Prize at Gallie Day. We had two Visiting Professors for this year; Dr. Brian Lane was our Menkes’ lecturer and Dr. Peter Albertsen was our Robson Professor.

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 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 Wilson/CIHR Clinical Research Chair in Oncology. Dr. Michael Robinet 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, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC and Pfizer. He continued as Chair of the 6th Annual Uro-Oncology Dialogue meeting in Niagara-on-the-Lake. Dr. Girish Kulkarni continued his excellent research as a Junior Investigator/Surgeon Scientist securing peer-reviewed grants from Canadian Urologic Association and CIHR as well as 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 Princess Margaret funds. He continues his work on statins, SNP’s and prostate cancer. Dr. Magdy Hassouna continued his basic and clinical work in neuro-urolgy and neuromodulation. 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.
Division Of Vascular Surgery

J. Byrne, MD  B. Rubin, MD
W. Johnston, MD  L. Tse, MD
T. Lindsay, MD  D. Wooster, MD
G. Oreopoulos, MD  T. Forbes, MD
G. Roche-Nagle, MD

The Division was active in recruitment over the past year, hiring Dr Thomas Forbes who has assumed the role of University Chair of Vascular Surgery succeeding Dr Lindsay’s eleven year term. Dr John Byrne, a surgeon scientist, was recruited, who will be working with Dr Clint Robbins, on mechanisms of aortic aneurysm wall expansion. The Division also supported the hiring of Dr Yassin Abdulrehman to Thunder Bay Regional Health Science Center (TBHSC) to renew the vascular surgical program in Thunder Bay. Drs Rubin and Lindsay have lead the development and planning of a ‘One program two site model’ for the delivery of cardiac and vascular surgery care in Northwestern Ontario, as announced by Minister Hoskins in July 2015. This joint CV program will extend the Peter Munk Cardiac Center’s reach to re-establish local vascular care and support the development of a local Cardiac surgical service. In the interim the UHN Peter Munk Cardiac center will be the site for EVAR cases performed by TBHSC surgeon(s). A new joint program in open thoraco-abdominal aneurysm repair has been created in conjunction with the Cardiac Surgery Division at UHN. This expanded the scope of treatment available for arch, thoraco-abdominal aneurysms and juxtarenal aneurysms complementing the advanced EVAR program. The Division continues to have a focus on safety and quality improvement through the SVS sponsored Vascular Quality Imitative which is coordinated by Dr Roche-Nagle. Dr Wooster received the Colm Wolff Award for Long Term Contributions to Continuing Education from the University of Toronto Division of CEPE. His Vascular Imaging Toronto Program - VITO course celebrated its 15th annual meeting. The Division’s members continue to have significant leadership positions Dr Forbes (University Chair, Associate Editor Journal of Vascular Surgery, President of CSVS, Chair CCN Vascular Working Group), Dr Lindsay (Royal College Speciality Chair), Dr Oreopoulos (became the Director of Postgraduate Surgery Education Director in addition to his responsibilities as Vascular Surgery Program Director), Dr Roche-Nagle (Chair of the Radiation Safety Committee), Dr Rubin (Program Head, Peter Munk Cardiac Center, Chair of UHN MSH Academic Medical Organization), Dr Tse (Royal College Vascular Surgery exam committee) and Dr. Wooster (Chair, ACS CPD Committee). Dr Rasheed Osman completed a research fellowship with the Division publishing on the hospital costs of branched and fenestrated EVAR cases.

Division of Cardiac Surgery

Dr. M. Badiwala  Assistant Professor
Dr. S.J. Brister  Associate Professor
Dr. R. Cusimano  Associate Professor
Dr. T.E. David  Professor
Dr. C. Feindel  Professor
Dr. R-K Li  Professor
Dr. M. Ouzounian  Assistant Professor
Dr. A.C. Ralph-Edwards  Lecturer
Dr. V. Rao  Professor (Division Head)
Dr. H. Scully  Professor
Dr. W.E. Stansfield  Assistant Professor
Dr. R. Weisel  Professor
Dr. T.M. Yau  Professor

Publications


Blackstone EH, Weisel RD. The conclusion of papers published in the journal should be supported by an appropriate statistical analysis. Journal of Thoracic Cardiovascular Surgery. 2014 Dec; 148(6): 2479.


Cusimano, Robert: Department of Cardiovascular Surgery, 1st Affiliated Hospital, Xinxiang Medical University, Xinxiang, Henan, China, 3-10 Nov 2014. Invited Lecturer: 1) Physiologic Basis for Use of Intra Aortic Balloon Pump Over Inotropes for Myocardial Ischemia. 2) Valve Insertion, Principles and Practice. 3) Basic Clinical Skills: Mitral Valve Insertion Lab. 4) Prosthetic Valve Orientation in Cardiac Surgery. 5) Aortic Valve Replacement in 2014 - Beyond the Standard operation.


David, Tirone E: Ministry of Health of Sao Paulo, Dante Pazzanese Institute of Cardiology, Sao Paulo, Sao Paulo, Brazil, 27 Nov 2014. Invited Speaker: Aortic valve repair. Valve replacement: mechanical or bioprosthetic?


Li, Ren-Ke: 2nd Cardiovascular Forum for promoting centers of Excellence and Young Investigators, University of Manitoba, Winnipeg, Manitoba, Canada, 6 Sep 2014. Invited Speaker: A non-invasive technique for targeted gene delivery to enhance cardiac regeneration.

Li, Ren-Ke: Amity University - 7th International Conference on Recent Advances in Cardiovascular Sciences, Delhi, Uttar Pradesh, India, 10 Mar 2015. Invited Speaker: Uterine angiogenic stem cells for regeneration of ischemic cardiomyopathy.

Li, Ren-Ke: Harbin Medical University, Harbin, China, 1 Jul 2014. Invited Speaker: Microbubble for gene therapy to regenerate cardiac tissue: Non-invasive, targeted and repeatable.


Li, Ren-Ke: Shobhaben Pratapbhai Patel School of Pharmacy & Technology Department, Mumbai, Maharashtra, India, 16 Mar 2015. Invited Speaker: Angiogenic stem cell for tissue regeneration: Cross talk between organs.

Li, Ren-Ke: University of Hong Kong, Department of Ophthalmology, Hong Kong, 6 Nov 2014. Visiting Professor: Heart, Brain, Hormone and Health Aging Research Centre.
Weisel, Richard: Harbin Medical University, Harbin, China, 2 Jul 2014. Presentation: Tissue engineering for cardiac restoration.

Weisel, Richard: Zhongshan Hospital affiliated with the Fudan University, Shanghai, Shanghai, China, 7 Jul 2014. Presentation: Stem cell therapy for cardiac regeneration.


Yau, Terrence M: Canadian Cardiovascular Society, Vancouver, British Columbia, Canada, 26 Oct 2014. Invited Speaker: MPC LVAD Phase I/Phase II.


Yau, Terrence M: Heart Failure Symposium, Montreal, Quebec, Canada, 30 May 2015. Invited Speaker: Current Status of Stem Cell Therapies for Heart Failure.


Research and Investigations


Division of General Surgery

Dr. M.S. Cattral Professor
Dr. S.P. Cleary Associate Professor
Dr. J. Escallon Associate Professor
Dr. A. Gagliardi Associate Professor
Dr. S. Gallinger Professor
Dr. A. Ghanebar Assistant Professor
Dr. D. Grant Professor
Dr. P. Greig Professor
Dr. T. Jackson Assistant Professor
Dr. W.L. Leong Assistant Professor
Dr. D. McCready Professor
Dr. I. McGilvray Associate Professor

Dr. C-A.E. Moulton Associate Professor
Dr. C. O’Brien Assistant Professor
Dr. A. Okrainec Associate Professor (Division Head)
Dr. T. Penner Assistant Professor
Dr. F.A. Quereshy Assistant Professor
Dr. M. Reedijk Associate Professor
Dr. L.E. Rotstein Professor
Dr. E. Shlomovitz Assistant Professor
Dr. M. Selzner Assistant Professor
Dr. D. Ubachs Assistant Professor
Dr. A. Wei Associate Professor

Publications


Racz JM, Blackstein M, Quereshy FA. Gastrointestinal Stromal Tumours. In: Surgical Oncology Manual, University of Toronto. 2014. Toronto, Canada: General Surgical Oncology Fellowship Program.


Invited Visits


Escallon, Jaime: Colombian Association of Surgery, Cartagena, Bolivar, Colombia, 27 Jul 2014. Distinguished Speaker: DCIS Cancer o No Cancer ?


McCready, David: 40 Latin American and International Chapter Meeting of the American College of Surgeons, Cartagena, Colombia, Jul 2014. Invited Speaker: 1) Management of BRCA positive patients. 2) What is the appropriate margin width for breast conserving surgery for breast cancer?


Moulton, Carol-anne Evelyn: Northern Constellations, Sudbury, Ontario, Canada, 27-28 Mar 2015. 1) Invited Speaker: Peeking behind the curtain: Surgical judgment beyond cognition. 2) Keynote Speaker: Slowing down when you should: Moving from the routine to the effortful.


Research and Investigations


Targeting colorectal cancer-initiating cells and anti-EGFR therapeutic resistance by manipulating levels of the reactive aldehyde, 4-hydroxynonenal. CIIHR. O’Brien GA. ($35,000.00 2014-2019).


Honours and Awards


Greig, Paul: Francis Moore Excellence in Mentorship in the Field of Transplantation Surgery Award, American Society of Transplant Surgeons (ASTS). 2014.

Jackson, Timothy: David Fear Fellowship Award, University of Toronto Faculty of Medicine Education Achievement, Toronto, Ontario, Canada. Jul 2014 - Jun 2015.

Jackson, Timothy: Frank Mills Award for Excellence in Teaching by a General Surgery Faculty Member, University Health Network, General Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Jul 2014 - Jun 2015.

Quereshy, Fayez A: CAME New Educator Award, Canadian Association of Medical Education. Dept of Surgery, Faculty of Medicine. May 2015.

Quereshy, Fayez A: Wightman-Berris Academy Individual Teaching Award, University of Toronto, Dept of Medicine, Faculty of Medicine, Ontario, Canada. 2014 - 2015.

Division of Neurosurgery

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

Publications


Invited Visits

Davis, Karen Deborah: 5th International Congress on Neuropathic Pain: Neuropathic Pain (Special Interest Group of IASP), Nice, France, May 2015. 1) Speaker: Brain imaging of treatment effects in chronic pain conditions workshop talk. 2) Chair: Brain Imaging in Neuropathic Pain: Role in assessing mechanisms & treatment effects workshop.

Davis, Karen Deborah: BrainMap Seminar Series; Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital and Harvard Medical School, Boston, Massachusetts, United States, Jun 2015. Invited Lecturer: Imaging abnormalities and treatment effects in chronic pain: insights from individual differences.


Davis, Karen Deborah: University of Waterloo, Vision Science Graduate Student Conference, Waterloo, Ontario, Canada, Apr 2015. Invited Lecturer: Brain representations of pain sensitivity: Your Brain is Not My Brain!


Fehlings, Michael: 6th Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine (AACPDM), San Diego, California, United States, 12 Sep 2014. Invited Speaker: Neural Stem Cells as a Potential Therapeutic Approach for Developmental Brain Disorders: What Does the Clinician Need to Know Instructional Course.


Fehlings, Michael: ASIA/ISCOS Joint Scientific Meeting, Montreal, Quebec, Canada, 15-16 May 2015. Keynote Speaker: 1) Efficacy and safety of Riluzole in acute spinal cord injury. Rationale and design of AOSpine phase III multicentre double blinded randomized trial. 2) Quantitative MRI techniques and their applications to spinal cord injury. 3) Emerging concepts in the pathology and clinical management of degenerative conditions of the spine causing spinal cord dysfunction.


Fehlings, Michael: Cere Stem Cell Symposium, EVER Neuro Pharma GMBH, Salzburg, Austria, 10 Nov 2014. Invited Speaker: Repair and regeneration of the injured spinal cord: From molecule to man.


Fehlings, Michael: EANS European Congress, Prague, Czech Republic, 13-16 Oct 2014. 1) Invited Speaker: Metastasis: Should we be aggressive. 2) Chair: Current concepts in the management of central cord injury. 3) Invited Speaker: Repair and regeneration of the injured spinal cord: From molecule to man.

Fehlings, Michael: Neuroscience Grand Rounds, Massachusetts General Hospital, Boston, Massachusetts, United States, 16 Apr 2015. Visiting Professor: Repair and regeneration of the injured spinal cord: From molecule to man.


Hodaie, Mojgan: 12th International Stereotactic Radiosurgery Society Congress, Yokohama, Japan, 7-9 Jun 2015. 1) Invited Lecturer: Imaging in Functional Radiosurgery. 2) Invited Moderator: Pre-Congress Basic Educational Course Session.


Tymianski, Michael: British Neurovascular Meeting, East Sussex, United Kingdom, 2 Feb 2015. Invited Speaker: 1) Multidisciplinary management of unruptured anterior circulation aneurysms by open minicraniotomy for endovascular therapy: analysis of costs and outcomes. 2) Indications for high and flow EC-IC bypass in the modern era. 3) Development of PSD95 inhibitors for the treatment of iatrogenic and spontaneous stroke-a bench to bedside to curbside story.

Tymianski, Michael: Dalhousie University, Halifax, Nova Scotia, Canada, 24 Apr 2015. Visiting Professor: 2015 Dr. Bethune Visiting Professor Translation of PSD95 Inhibitors from target discovery to phase 3 trials for the treatment of stroke.
Tymianski, Michael: Gordon Research Conference 2015: Oxidative Stress + Disease, Ventura, California, United States, 4 Mar 2015. Discussion Leader: Novel Oxidases and Disease GRC on Oxidative Stress + Disease: The Redox Biology of Age-related disease.

Tymianski, Michael: Neurological Emergencies Treatment Trials Ctr, Dept of Emergency Medicine, University of Michigan Health System, Detroit, Michigan, United States, 14 Jan 2015. Invited Speaker: Update on the Frontier trial Pre-hospital stroke trial meeting.


Tymianski, Michael: St Luke’s Medical Center, Quezon, Philippines, 4 Dec 2014. Invited Speaker: 1) Development of PSD95 inhibitors for the treatment of stroke-from Bench to Phase 3 trials. 2) Carotid Disease: when to treat and with what. 3) The natural history and surgical management of complex AVMs. 4) Surgical management of complex aneurysms.

Tymianski, Michael: XXV International Symposium of Neurosurgery, Colombian Association Neurosurgery, Cartagena, Distrito Capital de Bogotá, Colombia, 26 Mar 2015. Invited Speaker: 1) Microsurgery for complex aneurysms. 2) Microsurgery for AVMs: indications, techniques and complications. 3) After Aruba; which unruptured brain AVMs should be treated? The point of view of the neurosurgeon. 4) EC-IC bypass surgery: indications and techniques. What is the future?

Valiante, Taufik: Workshop at Amrita institute along with Cleveland Clinic Epilepsy, Amrita Institute, Cochin, Kerala, India, 21-22 Nov 2014. 1) Invited Speaker: Subdural/depth electrodes implantation and resection planning in a case of MRI normal epilepsy. 2) Keynote Speaker: Epilepsy surgery: past, present, and future.


Zadeh, Gelareh: Joint conference organized with Professor Kaye, President of Australasia Society and Chair of Surgery, Australia, Nov 2014. Invited Speaker: Management of Atypical Meningiomas: Role of Surgery.


Research and Investigations


Alterations in spinal respiratory networks after cervical SCI. Paralyzed Veterans of America (PVA) Research Foundation. Fehlings M. ($145,044.00 USD, Jan 2015 - Dec 2016).


Brain and Spinal Cord Injury Translational Clinical Research Unit. Private donor. Fehlings M. ($1,000,000.00 CAD, Jul 2014 - Jun 2015).

Cerebral Palsy Research Fund. Private donor. Fehlings M. ($100,000.00 CAD, Jan 2014 - Dec 2015).


Development of a next-generation PSD95 inhibitor for the treatment of acute ischemic stroke. NIH, NINDS Translational research cooperative agreement. Tymianski M. ($3,771,814.00 USD, Sep 2014 - Sep 2017).


Inhibition of MMPs in Malignant Meningiomas. Adam Coules Research Grant. Zadeh G. ($50,000.00 CAD, 2014).


Molecular Mechanisms Underlying the Development of Neuropathic Pain in Mouse Model of Disc Herniation Radiculopathy. Canadian Pain Society, Early Career Investigator Pain Research Grant. Shamji, MF. ($50,000.00 CAD, May 2014 - Apr 2015).

Optical coherence tomography, optical topographical imaging and fluorescence guided surgical laser ablation. NSERC. Yang V. ($35,000.00 2014-2019).


Preventing neurological decline in cervical spondylotic myelopathy with intravenous IgG. PSI Foundation. Fehlings MG. ($82,750.00 2014-2016).


The Frontier Trial- Field Randomization of NA-1 treatment in early responders. Brain Canada. Tymianski M, Morrison L. ($6,600,000.00 CAD, Sep 2014 - Sep 2014).


Validation of monitoring changes in brain synchrony to anticipate seizures and implement feedback stimulation to stop seizure occurrence. Ontario Brain Institute. Valiante T, Velazquez P, Genov. ($125,000.00 CAD, Jan 2015 - Jan 2016).

**Honours and Awards**


Fehlings, Michael: Elected Fellow, Canadian Academy of Health Sciences, Canada. Sep 2014.


Lozano, Andres M: Cloward Award, Western Neurosurgical Society. 2014.


Lozano, Andres M: Honoured Guest, Annual meeting of the Neurosurgical Society of the Virginias. 2014.

Lozano, Andres M: Innovations Award, Canadian College of Neuropsychopharmacology, Canada. 2014.
Zadeh, Gelareh: Bernard Langer Surgeon-Scientist Award, University of Toronto, Toronto, Ontario, Canada. 2014.
Zadeh, Gelareh: Ross Fleming Surgical Educator Award, University of Toronto, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. 2014.

Division of Orthopaedics

Dr. R.S. Bell Professor
Dr. J.R. Davey Associate Professor
Dr. M. Erwin Assistant Professor
Dr. R. Gandhi Assistant Professor
Dr. P. Henry Assistant Professor
Dr. J. Lau Assistant Professor
Dr. S. Lewis Associate 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 Assistant Professor
Dr. C. Veillette Assistant Professor

Publications


Invited Visits


Davey, J. Roderick: The Canadian Arthroplasty Society, Toronto, Ontario, Canada, 27 Nov 2014. Presenter: The routine use of topical tranexamic acid in total hip arthroplasty provides clinical and economic benefits without increasing the incidence of venous thromboembolic events.


Lau, Johnny: Canadian Orthopedic Foot & Ankle Society, Whistler, British Columbia, Canada, 31 Jan 2015. Invited Speaker: Round Table Seminar Leader: Ankle OCD.


Lau, Johnny: Pasqua Hospital, Zimmer Institute, Saskatoon, Saskatchewan, Canada, 11 Jul 2014. Invited Lecturer: Zimmer Total Ankle Arthroplasty.


Lewis, Stephen: Anchorage, Alaska, United States, 10 Sep 2014. Presenter: 1) Tension Pneumothorax as a Complication of Inadvertent Pleural Tears during Posterior Spinal Surgery. 2) Modified Hemivertebrectomy for Persistent High Left Shoulder following Surgery for Double Thoracic Scoliosis.


Lewis, Stephen: Stryker Spine, Stryker Spine Deformity Symposium, California, United States, 13 Dec 2014. Presenter: 1) Classification of Adult and Pediatric deformities with XIA3 and XIA 4.5. 2) Defining Scoliosis in the Pediatric Patient. 3) Deformity Correction with an MIS Approach with ES2. 4) Why do I operate on Young Adults?


Rampersaud, Yoga Raja: McGill Centre of Expertise in Chronic Pain, Montreal, Quebec, Canada, 8 May 2015. Invited Speaker: Evaluation of the provincial model to address the gaps in care of low back pain: Was it successful? What were the barriers and facilitators to implementation? How can it serve as a model for the larger healthcare system?


Rampersaud, Yoga Raja: Society for Minimally invasive Spine Surgery, Miami, Florida, United States, 19-21 Sep 2014. 1) Invited Speaker: How applying MISS can positively affect value – emphasis on patient outcome / cost. 2) Invited Speaker: Comparative Clinical And Economic Outcomes Of Minimally Invasive Surgery For Posterior Lumbar Fusion: A Systematic Review And Meta-Analysis. 3) Moderator: Patients Undergoing Revision Surgery. 4) Moderator: Trauma / Tumor / Revision. 5) Invited Speaker: Minimally Invasive Decompression in Focal Lumbar Spinal Stenosis With or Without Stable Spondylolisthesis - Comparative Outcomes and Re-Operation Rates at 2 Years and Beyond.


Research and Investigations

Arthritis Health System Innovation Change Lab. Toronto General & Western Hospital Foundation, Arthritis Program. Veillette CJH, Rampersaud, YR. ($2,000,000.00 CAD, Oct 2014 - present).

UNIVERSITY OF TORONTO 176

Health Services Evaluation of a Comprehensive Multidisciplinary Delirium Care Pathway in Hip Fracture Patients. Academic Health Sciences Centres (AHSCs) (UK), Alternate Funding Plan Innovation Fund (UK). Rampersaud YR. ($123,000.00 CAD, Mar 2014 - Mar 2015). Funded.

Inter-professional Spine Assessment and Education Clinic (ISAEC) Pilot Extension. Ontario Ministry of Health and Long-Term Care. Rampersaud YR. ($1,100,000.00 CAD, May 2014 - Feb 2015).


Notochordal Cell-Secreted Factor/Disc-Derived Stem Cell Based Rescue of the Intervertebral Disc/Disc Derived Stem Cells for the Treatment of Degenerative Disc Disease and Related Disorders. Erwin WM. ($1,000,000.00 USD, Jul 2014 - Jun 2015).

Patient-centred interprofessional shared care model for low back pain management. Canadian Institutes of Health Research (CIHR), Knowledge Synthesis. Rampersaud YR. ($100,000.00 CAD, Mar 2014 - Feb 2015).


Validation of a Screening and Referral Strategy for a Primary Care Low-Back Pain Inter-Professional Model of Care for Patients with Inflammatory Back Pain (IBP). Arthritis Society (The). Rampersaud YR. ($301,400.00 CAD, Oct 2014 - Sep 2017).

Wearable technology in precision medicine: developing non-invasive predictive models in degenerative musculoskeletal disease. Toronto General & Western Hospital Foundation, Arthritis Program. Veillette CJH. ($100,000.00 CAD, Jul 2014 - present).

Honours and Awards

Bell, Robert Stuart: Dr. Robert S. Bell Chair in Health Research, Toronto General & Western Hospital Foundation, Toronto, Ontario, Canada. May 2014 - present.

Gandhi, Rajiv: ABC Traveling Fellowship, Canadian Orthopaedic Association. Apr 2015


Division of Plastic and Reconstructive Surgery

Dr. D. Anastakis  Professor
Dr. P. Bray  Assistant Professor
Dr. B. Graham  Assistant Professor
Dr. S. Hofer  Professor (Division Head)
Dr. S.J. McCabe  Associate Professor
Dr. C.B. Novak  Associate Professor
Dr. A.C. O’Neill  Assistant Professor
Dr. H.P. von Schroeder  Associate Professor
Dr. T. Zhong  Associate Professor

Publications


Hof, Stefan: 1st London Breast Meeting, London, City of, United Kingdom, 4-5 Sep 2014. 1) Invited Lecturer: Tips, tricks and pearls in reconstruction - How to mark a DIEP flap. 2) Session chair: Breast conservation failure: completion mastectomy and reconstruction or partial defect reconstruction? 3) . Invited Lecturer: Allied therapy in breast reconstruction - Flap Monitoring. 4) Session chair: Risk reducing mastectomy (RRM) and reconstruction.


Hof, Stefan: EURAPS Research Council Meeting, Edinburgh, City of, United Kingdom, 28 May 2015. Invited Speaker: Establishing High Quality Academic Output from a Microsurgical Practise & Where Future Research Should be
Focused Symposium: Microsurgery as a Model for Implementing Tissue Engineering into Clinical Practice.

**Hofer, Stefan:** European Society of Plastic and Aesthetic Surgery Meeting, Edinburgh, City of, United Kingdom, 7-10 Jul 2014. 1) Session Chair: Basic Science and Tissue Engineering. 2) Invited Lecturer: How to publish your paper in a scientific medical journal.


**Zhong, Toni:** American Society for Reconstructive Microsurgery, Atlantis, Paradise Island, Bahamas, 26 Jan 2015. Break out Panel Moderator: 1) Perioperative Pain Control. 2) Flap Choice and Outcome in Breast Reconstruction: Evaluation with the Breast Q and What Really Matters to Patients?

**Zhong, Toni:** Annual Breast Educational Dinner. Markham-Stouffville Hospital/ Central LHIN, Toronto, Ontario, Canada, 25 Sep 2014. Invited Speaker: State of Breast Reconstruction in Ontario: Where we have been, where we are now, and where we are headed?

**Research and Investigations**


**Honours and Awards**


**McCabe, Steven J:** William K Lindsay Faculty Research Mentor Award, University of Toronto, Division of Plastic Surgery. Dept of Surgery, Faculty of Medicine. 2014.


**Division of Thoracic Surgery**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Dr. M. Cypel</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. G.E. Darling</td>
<td>Professor</td>
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<tr>
<td>Dr. M. de Perrot</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. R.M. Goriczynski</td>
<td>Professor</td>
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<tr>
<td>Dr. S. Keshavjee</td>
<td>Professor</td>
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<tr>
<td>Dr. M. Liu</td>
<td>Professor</td>
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<tr>
<td>Dr. P. Pierre</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. T.K. Waddell</td>
<td>Professor (Division Head)</td>
</tr>
<tr>
<td>Dr. K. Yasufuku</td>
<td>Associate Professor</td>
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Publications


Invited Visits


Cypel, Marcelo: European Society of Organ Transplantation (ESOT), Budapest, Hungary, Oct 2014. Invited Lecturer: Immunomodulation of Lung Grafts During EVLP.


Gorczynski, Reginald M: FOCIS, San Diego, United States, 24 Jun 2015. Invited Speaker: 1) Comparison of immunity in mice cured of primary/metastatic growth of EMT6 or 4THM breast cancer by chemotherapy or immunotherapy. 2) Effect of infusion of mAbs to TNFRSF25 on skin graft survival in mice receiving autologous marrow transplantation.


Gorczynski, Reginald M: Clinique La Prairie, Switzerland, Sep 2014. Invited Speaker: 1) HBFy- Specific Elisa Scientific Meeting of the CLPR Group in Clarens. 2) Experimental Basis of O2-Transport to stem cell niches and stem cell differentiation / Activation.

Keshavjee, Shaf: 10th Vail Cardiothoracic Transplantation: 20 Years of Updates and the Transition to Personalized Transplant Care, Vail, Colorado, United States, 21 Feb 2015. Invited Lecturer: 1) Therapeutics gases to treat the donor lung 2) Mesenchymal Stem Cell to Repair the Donor 3) Research and Clinical Applications of EVLP.


Keshavjee, Shaf: Clifton F Mountain Distinguished Lecture. MD Anderson Cancer Center, Houston, TX, United States, 30 Sep 2014. Lecturer: The impact of ex vivo lung perfusion on lung transplant, cancer and lung regeneration.


Keshavjee, Shaf: Yale University, Human and Translational Immunology Department, Newhaven, CT, Ontario, Canada, Sep 2014. Invited Speaker: The Future of Transplantation: Personalized Medicine for the Organ”.


Liu, Mingyao: Shanghai Chest Hospital, Shanghai Jiao Tong University, Shanghai, China, 2 Jul 2014. Invited Speaker: Translational research in lung injury and transplantation.

Liu, Mingyao: Changhai Hospital, Second Military Medical University, Shanghai, China, 2 Jul 2014. Invited Speaker: Translational research in lung injury and transplantation.
Liu, Mingyao: Wuxi People's Hospital, Jingga University, Jiangsu, China, Jul 2014. Invited Speaker: Translational research in lung injury and transplantation.


Research and Investigations


Cone-beam CT guided microcoil localization of pulmonary nodules during VATS. Yasufuku K. (Mar 2015 - present).

Cost-effectiveness and health related outcomes comparison of ambulatory definitive management of malignant pleural effusion (MPE) with talar pleurodesis and indwelling pleural catheter. MSH-UHN AMO. Yasufuku K. ($180,000.00 CAD, Apr 2015 - Mar 2017).


EBUS as the first line investigation for isolated mediastinal lymphadenopathy. Yasufuku K. (2014 - present).


Lobectomy vs Thorascoscopic Lobectomy for Lung Cancer: A pilot randomized controlled study in a single-player healthcare system. Intuitive Surgical, Clinical Robotics Research Grant. Yasufuku K. ($50,000.00 CAD, Jan 2015 - Dec 2015).

Malignant pleural effusion (MPE) management through the Rapid Assesment of Complex Pleural Effusion (RACE) Program. Canadian Cancer Society. Yasufuku K. ($516,000.00 CAD, Feb 2015 - Jan 2017).


Minimally invasive sentinel lymph node mapping with ICG during robotic lung cancer surgery - phase I trial. Intuitive Surgical, Clinical Robotics Research Grant. Yasufuku K. ($50,000.00 CAD, Jan 2015 - Dec 2015).


Restaging the mediastinum with EBUS-TBNA: Feasibility and correlating findings with PET-CT scan. Yasufuku K. (Sep 2014 - present).


Science Operating Room Extension (ScORE). *Canada Foundation for Innovation (CFI)*. Yasufuku K. ($1,997,099.00 CAD, 2014 - 2018).


**Honours Received**

Cypel, Marcelo: George Armstrong Peters Award, University of Toronto 2015.


Cypel, Marcelo: Robert J. Ginsberg Award for Excellence in PostGraduate Teaching. Thoracic Surgery, Dept of Surgery, Faculty of Medicine. 2015.

Darling, Gail Elizabeth: Gail E. Darling Award for Excellence in Undergraduate Teaching. Thoracic Surgery, Dept of Surgery, Faculty of Medicine. 2014

Keshavjee, Shaf: Canadian Academy of Health Sciences Fellowship, Canadian Academy of Health Sciences. 2014

Keshavjee, Shaf: Doctor of Science honoris causa, Ryerson University. 2014

Keshavjee, Shaf: Doctorate of Science – Honorary, (DSC Hon), Queen’s University, Kingston, ON, Canada. Dec 2014

Keshavjee, Shaf: Officer of the Order of Canada (OC). Dec 2014

**Division of Urology**

Dr. D.S. Elterman Assistant Professor
Dr. A. Finelli Associate Professor
Dr. N.E. Fleschner Professor (Division Head)
Dr. R. Hamilton Assistant Professor
Dr. M.M. Hassouna Professor
Dr. M.A.S. Jewett Professor
Dr. G. Kulkarni Assistant Professor
Dr. A. Matthew Assistant Professor
Dr. S.B. Radomski Professor
Dr. M. Robinette Associate Professor
Dr. J. Trachtenberg Professor

**Publications**


Invited Visits

Elterman, Dean S: United States, 8 Oct 2014. Invited Speaker: Men's Health Show, Doctor Radio, Sirius XM Radio USA.


Elterman, Dean S: The 2nd Friends of Israel – Urological Symposium (FOIU), Tel Aviv, Israel, 1-3 Jul 2014. Invited Speaker: 1) Late initiation of 5 alpha reductase inhibitors. 2) Post-Prostatectomy Erectile Dysfunction. 3) Male Urethral Slings. 4) Chair: Erectile Dysfunction.


Elterman, Dean S: Wasser Pain Management Centre Educational Rounds, Toronto, Ontario, Canada, 4 Sep 2014. Invited Lecturer: Chronic Pelvic Pain and Sacral Neuromodulation Review Chronic Pelvic Pain Syndrome (CPPS) and Interstitial Cystitis (IC); Diagnostic and Therapeutic Options: Review Sacral Neuromodulation (SNM); Learn application of SNM to CPPS.


Finelli, Antonio: Congress of the Société Internationale d’Urologie, Glasgow, United Kingdom, 14 Oct 2014. Invited Speaker: 1) Surveillance in GU Oncology Master Class. 2) What is the Natural History of Small Renal Masses?


Fleshner, Neil Eric: Canadian Urological Association, Prostate Cancer Preceptorship Program for visiting Japanese, Toronto, Ontario, Canada, 17-18 Sep 2014. 1) Speaker: Adjuvant and neoadjuvant hormonal treatment. 2) Speaker: Lunch with the Experts: Discussions with PMH faculty; Biology of CRPC: What are the data gaps and how to solve them? 3) Discussion Leader: Interactive clinical cases discussion CRPC (includes management of side effects and assessment of response and progression of Abiraterone) and locally advanced disease. 4) Speaker: Radical prostatectomy for localized prostate cancer. 5) Speaker: Hormone therapy. 6) Speaker: Focal therapy for prostate cancer.

Fleshner, Neil Eric: CBC National TV, Toronto, Ontario, Canada, 27 Oct 2014. Speaker: PSA screening. The prostate-specific antigen, or PSA, is the most commonly used blood test to detect prostate cancer. New guidelines from the Canadian Task Force on Preventive Health Care recommend the test should no longer be used as it can cause more harm than benefit. However, not all health-care workers agree with the new guidelines. The guidelines are flawed and are a setback for men's health. URL: http://www.cbc.ca/player/News/TV%20Shows/The%20National/ID/257435605/

Fleshner, Neil Eric: CBC News Online, Toronto, Ontario, Canada, 27 Oct 2014. Speaker: PSA test should be abandoned as screen for prostate cancer, task force says. The blood test most commonly used to screen for prostate cancer can cause more harm than good and should be dropped, says the Canadian Task Force on Preventive Health Care. The main problems associated with the test -- which is known as the prostate-specific antigen or PSA -- are over-diagnosis and false-positive results. Despite its potential flaws, the PSA test is critical in detecting cancers early and saving lives. URL: http://www.cbc.ca/news/health/cpsa-test-should-be-abandoned-as-screen-for-prostate-cancer-task-force-says-1.2571496

Fleshner, Neil Eric: Central East Regional Cancer Program (CERP), 2nd Annual Primary Care CME Event, Prostate Cancer Across the Cancer Journey, Cancer Care Ontario, Ajax, Ontario, Canada, 14 Dec 2014. Invited Speaker: Risk Reduction of Prostate Cancer: Lessons Learned and Where to From Here?


Fleshner, Neil Eric: Friends of Israel Urological Symposium (FOIU), Tel Aviv, Israel, 2-3 Jul 2014. 1) Panelist: What do we agree/disagree about including active surveillance in the management of prostate cancer? 2) Presenter: Local control of prostate cancer/high risk cancer. 3) Presenter: What can we learn and apply to urological malignancies?

Fleshner, Neil Eric: Men's Health Summit, Canadian Urological Association., Toronto, Ontario, Canada, 17 Jan 2015. 1) Chair: Men's Urologic Health-Where are we today? 2) Chair: Men's Health-What parts are relevant? 3) Presenter: Men's Health-Looking to the future: Diabetes/Metabolic Syndrome.


Hassouna, Magdy M: Montreal, Canada, 8 Jun 2015. 1) Invited Speaker: Neuromodulation of Pelvic Floor Disorders. 2) Distinguished Speaker: Neuromodulation for Urologic Diseases.


Jewett, Michael A. S: Department of Urology at University of Zurich Hospital, Zürich (de), Switzerland, 29 Jan 2015. Invited Speaker: Management of Small Renal Masses.


Jewett, Michael A. S: NYU School of Medicine, New York, New York, United States, 12 Dec 2014. Invited Speaker: Up to date Management of High Risk Superficial Bladder Cancer.


Kulkarni, Girish: Canadian Urological Association/Canadian Urologic Oncology Group, Montreal, Quebec, Canada, 21 Nov 2014. Invited Speaker: Optimizing Outcomes in High Risk NMIBC.


Research and Investigations


Improving the patient experience for prostate cancer patients through better symptom management – Pilot implementation of the EPIC patient reported outcome measurement tool. *Cancer Care Ontario. Matthew A, Macedo A.* ($40,000.00 CAD, Sep 2014 - Aug 2015).


Honours and Awards

Fleshner, Neil Eric: Ride To Conquer Cancer Hall of Fame Award, Princess Margaret Cancer Centre. 2014.

Hamilton, Robert: Honour Your Hero Award, Princess Margaret Cancer Foundation. Feb 2015.


Kulkarni, Girish: Bernard Langer Surgeon-Scientist Award, University of Toronto. Apr 2015.

Kulkarni, Girish: Faculty Postgraduate Teaching Award, Clinical, University of Toronto. Urology, Dept of Surgery, Faculty of Medicine. Jul 2014 - Jun 2015.

Trachtenberg, John: Doctor of Science - Honoris causa, University of Guelph, Toronto, Ontario, Canada. For his leadership and contributions to the treatment of Prostate Cancer. Jan 2015

Division of Vascular Surgery

Dr. J.S. Byrne: Assistant Professor
Dr. T.L. Forbes: Professor
Dr. K.W. Johnston: Professor
Dr. T.F. Lindsay: Professor (Division Head)
Dr. G. Oreopoulos: Assistant Professor
Dr. G. Roche-Nagle: Assistant Professor
Dr. B.B. Rubin: Professor
Dr. L. Tse: Assistant Professor
Dr. D.L. Wooster: Professor

Publications


Invited Visits

Forbes, Thomas Lawrence: Canadian Society for Vascular Surgery, Toronto, Ontario, Canada, Sep 2014. 1) Invited Lecturer: Open repair of thoracoabdominal aneurysms is superior to fenestrated EVAR: For the motion. 2) Plenary Session Moderator.


Lindsay, Thomas F: Canadian Endoluminaries Symposium, Canada, Dec 2014. Presenter: Staging Thoracoabdominal Aneurysms: What is the evidence?

Lindsay, Thomas F: Canadian Society of Vascular Nursing (CSVN), Toronto, Ontario, Canada, Sep 2014. Presenter: Advanced Endovascular Interventions for Aortic Pathology.
Lindsay, Thomas F: Canadian Society of Vascular Surgery, Toronto, Ontario, Canada, Sep 2014. Presenter: Debate: “Endovascular Repair of Thoracoabdominal Aneurysms is Superior to Open Repair”.


Research and Investigations

Online Surgical Education: Does It Continue to Play a Role? University of Toronto, David Fear Fellowship. Wooster D. ($2,000.00 CAD, May 2014 - Apr 2015).


The Peter Munk Cardiac Center, Innovation Fund Grant. Byrne JS. ($37,000.00 CAD, 2014).

Honours Received
Oreopoulos, George: University of Toronto Surgical Skills Centre at Mt Sinai Hospital Education Award, University of Toronto, Vascular Surgery, Dept of Surgery, Faculty of Medicine, Toronto, Ontario, Canada. Jul 2014


Tse, Leonard: Cook Research Award, Canadian Society for Vascular Surgery. 2015


Division Heads:
Orthopedic Surgery: Dr. John Theodoropoulos
Plastic Surgery: Dr. John Semple

Division Of Plastic Surgery
Dr. John Semple
Dr. Mitchell Brown

Division Of Orthopedics
Dr. John Theodoropoulos
Dr. Ogilvie-Harris
Dr. Jaskarndip Chahal
Dr. Lucas Murnaghan
Dr. Tim Dwyer

Division Of General Surgery
Dr. Tulin Cil
Dr. Karen Devon

Division Of Urology
Dr. Ethan Grober

Important Accomplishments

CLINICAL: The Surgical Services Program is a dynamic innovative program that is responsive to an internal and external environment. Our mandate is to be a leader in Academic Ambulatory Surgery. The program is built on the partnerships with internal and external stakeholders which facilitate our ability to be leaders in Ambulatory Surgery. Women’s College Hospital is a designated facility for ambulatory surgery in the Toronto Central LHIN. Surgical programs with a focus in Ambulatory Care, continue to be a dominant focus in the structure of Women’s College Hospital as this institution continues to develop as an Academic Ambulatory Surgical Centre that is fully integrated with the hospital’s primary ambulatory strategic plan and current services.

RESEARCH: Through 2014-2015, the eight core surgeons at Women’s College Hospital have over 18 active research grants (including CIHR) and over 64 publications. As in previous years they are all engaged in a variety of clinical, educational and basic research activities. Several of them supervise residents and fellows in projects and graduate degree programs.

TEACHING: The experience rated by undergraduate, residents, fellows and the Continuing Medical Education (CME) continues to rate as excellent with our teaching volumes steadily increasing. They continue to make their surgical mark in the Department of Surgery as our residents and fellows have been honored with numerous awards in recognition of their research and education in patient care and development. 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. An active teaching program specifically for fellows has been introduced with both evidence based rounds and case presentations with a CME opportunity. Dr. Karen Devon and Dr. Tulin Cil have developed a new ambulatory general surgery rotation with introduction of weekly guided reflective practice. Dr. Devon has developed multiple educational activities including the Endocrine Surgery Journal Club, Department of Surgery Book Club, Ethics Quality of Care Rounds. The Division of Plastic Surgery continues to host fellows through the Allergan Breast Fellowship Program.

New Programs
With the capacity to expand our surgical programs with ten state of the art operating rooms, WCH continues to grow though its various partnerships including collaboration with the Toronto Central LHIN around alleviating pressure points within the system. New programs that will be commencing in the fall include Otolaryngology, Hand Program and Soft Tissue.

Recruitments
Tim Dwyer, Orthopedic, Sports Medicine and Arthroscopy surgeon has joined Women’s College Hospital with a cross appointment at Mt. Sinai Hospital. Tim’s surgical practice encompasses open and arthroscopic surgery of the knee and shoulder. His primary research focus is on the assessment of surgical competence in Competency Based Medical Education, which is the basis of his PhD thesis at IMS.

Retirements
After 40 years at Women’s College Hospital (WCH), Dr. Lavina Lickley, surgeon, researcher and co-founder of the Henrietta Banting Breast Centre was honored for her services with a retirement tea on November 28th 2014. Dr. Lickley has been recognized for several professional and academic accomplishments, including co-founding the Henrietta Banting Breast Centre in 1977 and leading two breast cancer prevention trials – as well as supporting many other studies. In addition to her thyroid and breast surgical duties, she later became a professor at U of T and a breast cancer researcher. Dr. Lickley, who held the position of Chief of Surgery at WCH from 1989-1998, considers her proudest academic moment becoming the first female surgeon in Canada to become a full professor in 1991.
Division of General Surgery

Dr. T. Cil  Assistant Professor
Dr. K.M. Devon  Assistant Professor

Publications


Devon KM. What does caring mean when it comes to social media in medicine. AMS Pheonix (eds), 2015 Feb 17. Canada. The AMS Pheonix Project Blog. URL: http://theamsphoenix.ca/blog/?p=100.


Invited Visits

Cil, Tulin: Association for Medical Education in Europe (AMEE), Milan, Italy, Aug 2014. Invited Speaker: The “F” Word in Medical Education Research: Bring back Sex/Gender and Feminism into the conversation.


Research and Investigations


An Online Enhanced Education Tool for Young Women Newly Diagnosed with Breast Cancer. Women’s College AFP. Cil T, Stephen J, Quan ML. ($29,985.00 CAD, May 2015 - May 2016).


Honours Received

Division of Orthopaedics

Dr. J. Chahal  Assistant Professor
Dr. T. Dwyer  Assistant Professor
Dr. J. Theodoropoulos  Assistant Professor (Division Head)

Publications


Invited Visits


Research and Investigations


Division of Plastic & Reconstructive Surgery

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor (Division Head)

Publications


Invited Visits

Brown, Mitchell Howard: 31st Annual Atlanta Breast Surgery Symposium - Southeastern Society of Plastic and Reconstructive Surgeons, Atlanta, Georgia, United States, 23 Jan 2015. Invited Speaker: 1) Implant malposition, prevention and correction. 2) Direct to implant breast reconstruction: Patient selection and technique. 3) Single stage correction of the tuberous breast. 4) Observer and commentator - live surgery - Breast Reconstruction with synthetic mesh, implants and fat grafting.


Research and Investigations

Division of Urology

Dr. E. Grober  Assistant Professor

Publications


Invited Visits


Research and Investigations


Symptomatic and Biochemical Response to Testosterone Replacement Therapy among Men with Low-Normal Testosterone Levels. Paladin Labs. Grober ED. ($5,000.00 CAD, Jan 2015 - Dec 2015).

Dinner with the Skeptical Scalpel
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

Publications


Laprade J. Reversing the Bend so we don’t Break. Canadian Physiotherapy Association’s 30 Reqs Series (online) (eds), 2015 Mar 11.


Li Z, Mogk JPM, Lee D, Bibliowicz J, Agur AM. Development of an architecturally comprehensive database of forearm flexors and extensors from a single cadaveric specimen. Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization. 2015 Jan; 3(1).


Invited Visits

Laprade, Judi: Alberta PT Association, Alberta, Canada, 19 Feb 2015. Invited Speaker: Physiotherapy’s role in the management of osteoporosis and on the Bone Fit program.

Laprade, Judi: Barrie, Ontario, Canada, 25 Apr 2015. Lead instructor: Bone FitTM

Laprade, Judi: Calgary, Alberta, Canada, 12 Jul 2014. Lead instructor: Bone FitTM


Laprade, Judi: Kingston, Ontario, Canada, 31 Jan 2015. Lead instructor: Bone FitTM

Laprade, Judi: London, Ontario, Canada, 8 Nov 2014. Lead instructor: Bone FitTM

Laprade, Judi: Markham, Ontario, Canada, 30 May 2015. Lead instructor: Bone FitTM

Laprade, Judi: Mississauga, Ontario, Canada, 5 Jul 2014. Lead instructor: Bone FitTM


Laprade, Judi: Owen Sound, Ontario, Canada, 7 Mar 2015. Lead instructor: Bone FitTM.

Laprade, Judi: Peterborough, Ontario, Canada, 15 Nov 2014. Lead instructor: Bone FitTM

Laprade, Judi: Sault Ste Marie, Ontario, Canada, 13 Sep 2014. Lead instructor: Bone FitTM.

Laprade, Judi: St Catharines, Ontario, Canada, 21 Mar 2015. Lead instructor: Bone FitTM.

Laprade, Judi: Toronto, Ontario, Canada, 17 Apr 2015. Lead instructor: Bone FitTM.

Laprade, Judi: Toronto, Ontario, Canada, 6 Dec 2014. Lead instructor: Bone FitTM.

Laprade, Judi: Waterloo, Ontario, Canada, 7 Feb 2015. Lead instructor: Bone FitTM.

Laprade, Judi: Windsor, Ontario, Canada, 13 Jun 2015. Lead instructor: Bone FitTM

Sun, Hong-Shuo: Brock University, St. Catharine, Ontario, Canada, 16 Dec 2014. Invited Speaker: Hypoxic preconditioning provides neuroprotection in neonatal hypoxic-ischemic brain injury.

Sun, Hong-Shuo: Chinese University of Hong Kong, Hong Kong, 14 Nov 2014. Invited Speaker: Drug Development Targeting Ion Channels for Neuroprotection against Stroke.

Sun, Hong-Shuo: Eye Research Center, Sun Yat-Sen University, Guangzhou, Guangdong, China, 12 Nov 2014. Invited Speaker: Drug development for potential treatment in neonatal hypoxic-ischemic brain injury.

Sun, Hong-Shuo: Federal University of Sao Paulo, Sao Paulo, Brazil, 18 Mar 2015. Invited Lecturer: In-vivo models for studying neuroprotection in cerebral ischemia and stroke.

Sun, Hong-Shuo: Nanjing Medical University, Nanjing, Jiangsu, China, 10 Nov 2014. Invited Speaker: Targeting Ion Channels for Potential Stroke Treatment.

Sun, Hong-Shuo: Southern Medical University, Guangzhou, Guangdong, China, 11 Nov 2014. Invited Speaker: Ion Channels as Therapeutic Targets for Neuroprotection in Stroke.

Sun, Hong-Shuo: Sun Yat-Sen University, Guangzhou, Guangdong, China, 12 Nov 2014. Invited Speaker: PSD-95 Inhibitor in Neuroprotection against Neonatal Stroke.
Sun, Hong-Shuo: University of Hong Kong, Hong Kong, 15 Nov 2014. Invited Speaker: Neuroprotective Effects of PSD-95 Inhibitor in Hypoxic-Ischemic Brain Injury.

Sun, Hong-Shuo: University of Sao Paulo, São Paulo, Brazil, 19 Mar 2015. Invited Lecturer: TRPM7 inhibitor carvacrol protects brain from neonatal hypoxic-ischemic injury.

Research and Investigations

CIHR China-Canada Joint Health Research Initiative. Canadian Institutes of Health Research. Sun HS. ($225,000.00 CAD, Jan 2014 - Dec 2016).

Collaborative Efforts in Drug Development for TRPM7 channel blockers in Treatment of Brain Diseases and Disorders. Burroughs Wellcome Fund, BWF 2015 Travel Grant. Sun HS. ($5,000.00 USD, May 2015 - Dec 2016).

Neuroprotective peptides for glaucoma. CIHR, Proof of Principle- Phase I. Koeberle PD. ($150,000.00 CAD, Apr 2015 - Mar 2016).


Promoting neural regeneration with stem cell based therapies: A novel source of autologous human neural stem cells for transplantation. CIHR. Morshead CM, Danacause N, Fehlings MG, Mendez IM, Shoichet MS. ($250,000.00 2014-2019)

Synthius. GRAND NCE. Agur A, Fels S. ($97,690.00 CAD, 2015).

The role of chloride channel CIC-3 in cerebral ischemia and its therapeutic potential in stroke. CIHR. Sun HS, Wang GL. ($75,000.00 2014-2016)

Honours and Awards

Ballyk, Barbara Ann (Dec): W.T. Aikins Award for Excellence in Course/Program Development and Coordination in Undergraduate Medical Education, University of Toronto. Faculty of Medicine. 2015.
Research in Education

Dr. S. Kitto  Assistant Professor
Dr. R.R. Sonnadara  Assistant Professor
Dr. N. Woods  Assistant Professor

Publications


Invited Visits


Woods, Nicole N: University of Iowa, 13 Nov 2014. Invited Speaker: How we know what isn’t so: Recent research on the role of basic science in the development of expertise.

Woods, Nicole N: University of Iowa, Carver College of Medicine, Iowa, United States, 13-14 Nov 2014. Facilitator: 1) Basic Science Integration. 2) Expertise Effects and Clinical Reasoning.

Woods, Nicole N: Western University, San Diego, California, United States, 16 Apr 2015. Invited Lecturer: Integration of Basic & Clinical Sciences.

Research and Investigations

DEXA Machine- Body fat mass Composition. Toronto Western Research Institute. ($30,000.00 CAD, Apr 2014 - Mar 2015).


Michael Fehlings, Gallie Day 2015
## Cross Appointments

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
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