Department of Surgery

Annual Report


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

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

University Division Chairs
Dr. C. Morshead    Anatomy
Dr. C. Caldarone   Cardiac Surgery
Dr. 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 and Reconstructive Surgery
Dr. T. Waddell     E.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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42nd GALLIE DAY  Friday May 13, 2016

Gallie-Bateman and McMurrich Research Presentations
42nd GALLIE DAY Friday May 13, 2016

Poster Judging
42nd GALLIE DAY  Friday May 13, 2016

Poster Judging
42nd GALLIE DAY  Friday May 13, 2016

Reception, Dinner & Award Ceremony
42nd GALLIE DAY  Friday May 13, 2016

Reception, Dinner & Awards Ceremony
Global Surgery Symposium  Friday February 19, 2016
Continuing Appointment Reviews 2015-16

Shady Ashamalla - From Left to Right: N. Cobourn, S. Ashamalla, A. Nathens, C. Swallow

Karen Devon - From Left to Right: J. Semple, K Devon, M. McKneally, C. Swallow

Jas Chahal - From Left to Right: N. Mahomed, J. Chahal, D. Ogilvie-Harris, P Ferguson

Gregory Fairn - From Left to Right: A. Kapus, G. Fairn, O. Rotstein

Robert Hamilton - From Left to Right: N. Fleshner, R. Hamilton, O. Rotstein

Edward Hickey - From Left to Right: E. Hickey, M. Fehlings

Joao B. Rezende-Neto - From Left to Right: D. Latter, J.B. Rezende-Neto, N. Baxter, W. Kuebler

Paul Karanicolas - From Left to Right: C. Swallow, P. Karanicolas, S. Ashamalla
University Rounds

**Annual Address** - September 2015, O. Rotstein, A. Nathens, J. Rutka

**Bigelow Lecture** - October 2015, C. Caldarone, J. Elefteriades

**Robin McLeod Lectureship in Clinical Epidemiology** - November 2015, D. Backstein, D. Segev, R. McLeod, J. Rutka

**2015 Lister and George Armstrong-Peters Award Winner Presentations** - December 2015
J. Rutka, M. Cypel, E. Schemitsch
University Rounds

Ben Alman Research and Science Rounds - January 2016, M. Fehlings, L. McKerracher, B. Alman, J. Rutka

Kergin Lecture - February 2016, J. Rutka, R. Lorenz, P. Pisters, H. Scully

Harland Smith Lecture - March 2016, R. Zuker, C. Morshead, J. Pribaz, C. Forrest

Palmer Lecture - April 2016, L. Rotstein, D. Kooby, A. Okrainec
University Rounds

Welcome to the 42nd annual Gallie Day celebration!

MaRS Discovery Site
Friday May 13th, 2016

Gallie Day - May 2016

Tile Lecture - June 2016, A. Nathens, M Tile, G. Manley
Travelling Surgical Society of Great Britain and Ireland
It gives me great pleasure to provide a summary of the major achievements in the Department of Surgery from July 1st, 2015 to June 30th, 2016. Once again, this was a banner year for us in terms of reaching further milestones, and plotting a well-defined course for the future. As major highlights from 2015-16: 1) We underwent a successful 5-year review in the Department of Surgery; 2) we received more than $55 million in research funding, the most ever in the history of the Department of Surgery; 3) we initiated the inaugural joint Faculty Development Day with the Department of Anesthesiology; 4) we published the first ever Global Surgery and Surgical Innovation prospectuses; 5) we played hosts to the United Kingdom Travelling Surgical Society for their Annual Overseas Meeting, June 3-11, 2016; and finally, 6) we received more than $6 million in advancement funds, and this too is the largest amount ever received in the history of the Department of Surgery.

I should like to read a quote from the external reviewers report of the Department of Surgery: “There is no question that the Department of Surgery at the University of Toronto is the top Department of its kind in Canada and one of the top 10 in the world. Its educational programs in particular residency and fellowship are world famous, and its clinical programs are cutting edge, state of the art that compare favorably with any such program in the world.” I was pleased to receive these comments from Carlos Pellegrini, Professor and Chair, Department of Surgery at the University of Washington, and John Kortbeek, Professor and Chair of the Department of Surgery at the University of Calgary.

The Department of Surgery office in the Stewart Building houses 28 members including administrative staff, the Spine Program Coordinator, the Plastic and Reconstructive Surgery Program Administrator, the Orthopaedics Program Administrator, the Urology Program Administrator, the Vascular Surgery Program Administrator, the General Surgery Program Administrator, the Quality and Best Practices Program Manager, the CBC Program Administrator in Orthopaedics, and various vice-chairs and directors. Finally, the Editor of the Surgical Spotlight, Martin McNeally, has office space in the Stewart Building. We are very fortunate indeed to have this office space, and I encourage all of you to come visit at anytime if you have not done so already.

The leadership positions in the Department of Surgery have been fairly stable this past year. One notable change in leadership occurred at the Surgeon-in-Chief level at Women’s College Hospital. We bade farewell to John Semple who was Surgeon-in-Chief at Women’s College Hospital from 2006-2016; and finally, 6) we received more than $6 million in advancement funds, and this too is the largest amount ever received in the history of the Department of Surgery.

For education leadership, Melinda Musgrave was appointed to the position of Director of Education Evaluation in the Department of Surgery, a position which is a newly appointed one in the Department.

There were two well publicized late career transitions with John Cameron and Richard Holby both of Orthopaedics at Sunnybrook Health Sciences Centre stepping away from their practices having groomed the next generation of orthopaedic surgeons to take their places over a period of approximately 5 years.

In terms of promotions in the Department of Surgery, Joseph Noora (Cardiac Surgery, Trillium Health Partners), Jason Pennington (General Surgery, Scarborough Hospital), Najib Safieddine (Thoracic Surgery, Michael Garron Hospital) moved forward to Assistant Professor from Lecturer; Marcelo Cypel (Thoracic Surgery, UHN), Osami Honjo (Cardiac Surgery, HSC), Paul Karanicolas (General Surgery, SHSC), Graham Roche-Nagle (Vascular Surgery, UHN), and Daniel Whelan (Orthopaedics, SMH) moved forward to Associate Professor from Assistant; and Mojgan Hodaie (Neurosurgery, UHN), and Darryl Ogilvie-Harris (Orthopaedics, UHN) became Full Professors this past year. Numerous faculty members successfully completed their continuing appointment reviews including Shady Ashamalla (General Surgery, SHSC), Jaskarndip Chahal (Orthopaedics, WCH), Karen Devon (General Surgery, WCH/UHN), Gregory Farn (General Surgery, SMH), Robert Hamilton (Urology, UHN), Edward Hickey (Cardiac Surgery, HSC), Paul Karanicolas (General Surgery, SHSC), Paul Kuzyk (Orthopaedics, MSF), Steven McCabe (Plastic & Reconstructive Surgery, UHN), Bartolomeu Nascimento (General Surgery, SHSC), Anne O’Neill (Plastic & Reconstructive Surgery, UHN), Fayez Quershy (General Surgery, UHN), Ivan Radovanovic (Neurosurgery, UHN), Joan de Rezende-Neto (General Surgery, SMH), Mohammed Shani (Neurosurgery, UHN), and Laura Snell (Plastic & Reconstructive Surgery, SHSC).

New full time faculty recruits included Heather Baltzer (Plastic & Reconstructive Surgery, UHN), Karen Cross (Plastic & Reconstructive Surgery, SMH), Allen Rogers (Plastic & Reconstructive Surgery, SHSC), Sarah Ward (Orthopaedics, SMH), Augusto Zani (General Surgery, HSC), Savta Brar (General Surgery, MSH), Kristen Davidson (Plastic & Reconstructive Surgery, HSC), Gonzalo Sapisochin (General Surgery, UHN), Bobby Yanagawa (Cardiac Surgery, SMH).

In terms of advancement, as mentioned, more than $6 million was raised in the Department of Surgery. Over $1.6 million was secured for the Surgeon-Scientist Training Program (SSTP). And new innovation funds were established in Urology and Vascular Surgery.

We had several new Chair Announcements including Martin Gargan as the Harold and Bernice Groves Chair in Orthopaedics, Fred Gentili as the inaugural Cenovus Health Chair in Skeletal Base Surgery, Aaron Nauth as the Chair in Fracture Care Research, John Semple re-appointed as the Canadian Breast Cancer Foundation Research Chair, Stephen Fresen as the re-appointed Goldman Chair, Andres Lozano re-appointed as the Dan Family Chair, and Mike Tymianski as the...
Harold and Esther Halpern Chair in Neurosurgical Stroke Research.

The undergraduate medical education curriculum is newly launched for September 2016. The Royal College is implementing the Competency By Design programs across all divisions. And, we have formed an education scholars committee. Barry Rubin continued to hold his education course for senior surgical residents on negotiations and practice management for the senior residents.

In Faculty Development, we have formally implemented a mentorship program for new recruits; we have been developing further mentoring metrics; and a surgical leadership training program is being developed.

We held the first Global Surgery symposium with Mr. Henry Marsh of St. George’s Hospital who wrote his best seller book, “Do No Harm” and who presided over a book signing following his lecture February 19, 2016.

In Quality and Best Practices, Robin McLeod has been spearheading numerous initiatives including a program in the patient experience, developing guidelines for wound care management, surgical re-admission rates, and further development of the enhanced recovery after surgery guidelines.

In the research programs, there are 44 surgeon scientists trainees, the largest number ever in the history of the program. Funding these positions continues to be a challenge. We are relying more heavily on support from the supervisors than ever before. Hence, an important goal of the department is to achieve further endowed funds to support the SSTP.

At Gallie Day, Dr. Mohit Bhandari from McMaster University was the Gordon Murray Lecturer. The scientific program was held at the MARS Discovery site; and the dinner was held at the King Edward Hotel as a new venue for this celebration. Dr. Georges Azzie received the Tovee Postgraduate Award; Dr. Dennis di Pasquale Tovee Undergraduate Prize; Dr. Kathryn Isaac and Dr. Joshua Greenberg the D.R. Wilson Award; Dr. Nir Lipsman the Shafic Fazel Award; Dr. Teodor Grantcharov the Charles Tator Award; Dr. Michael Taylor Lister Prize; Dr. Sandra de Montbrun the surgical Skill Centre Award; Dr. Christoph Haller the Zane Cohen Clinical Fellowship Achievement Award; Dr. Toni Zhong the George Armstrong-Peters Prize; the Anand Govindarajan the B Langer Surgeon Scientist Prize.

In June, the University of Toronto played host to the United Kingdom Travelling Surgical Society; Splendid programs were held at Mount Sinai, St. Michael’s Hospital, and Princess Margaret Hospital. Our guests thoroughly enjoyed visiting the sites, and were truly impressed with what the University of Toronto had to offer to its trainees and faculty. A thoroughly enjoyable social program was held at numerous venues throughout Toronto and Niagara Falls.

As headline news items, Steve McCabe and his team from Plastic and Reconstructive Surgery had successfully performed the first hand transplant procedure. Dr. Todd Manprize successfully overcome the block to the blood brain barrier using MR guided focused ultrasound; and Hugh Scully continues to perform admirably in the headquarters of the Toronto Indy Centre.

Our faculty continue to garner numerous awards, too numerous to mention here. Some notable ones however included George Christakis receiving the John Provan Outstanding Undergraduate Surgical Educator Award; Andres Lozano the Order of Canada; Laurence Klotz Fellowship in the Canadian Academy Health Sciences; Martin McKenna the Distinguished Service Award in the Joint Centre for Bioethics.

Our faculty were stellar recipients of numerous grants from peer reviewed agencies. Some notable multi-million dollar grant awardees included Shaf Kashavee ($6 M); Karen Davis ($25 M); Peter Dirks ($11.7 M); Mark Jeschke ($ 1 M); Ren-Ke Lee ($2.5 M); Kazuhiro Yasufuku ($1.25 M); Nancy Baxter ($2.3 M); Geoffrey Fernie ($1.9 M); Catherine O’Brien ($1.2 M); Agostino Pierro ($3.6 M).

Our faculty continue to publish a ultra high impact papers in the best journals. Some notable examples include Peter Dirks’ work on cancer stem cells in Cancer Cell; Michael Taylor in Nature for his work on clonal selection of medulloblastoma; Anand Ghanekar and Nancy Baxter in the New England Journal of Medicine for outcomes of daytime procedures performed by attending surgeons after night work; Kaitlin Szasi and Andras Kapus in Nature Communications for their work on the TGF-Beta Pathway; Michael Feldings in Science Translational Medicine for his study of riluzole protection in spinal cord injury; and Mark Jeschke in the Annals of Surgery for immune responses in elderly burned patients.

We have much to look forward to this coming year. We will be hosting a refresh of our Strategic Plan in the Department of Surgery as the current plan, Transforming surgery beyond the cutting edge, will be completed in 2017. For this event, we have Steve “Spaz” Williams, Oscar nominee, as our keynote lecturer March 7, 2017.

It has been my great honour to serve this Department of Surgery these past 5 years. I look forward to leading the Department to even greater heights these next 5 years.

Sincerely,

James T. Rutka, MD, PhD, FRSC, FACS, FAAP, FAANS
RS McLaughlin Professor and Chair

Breakfast with Chair
It is with great pleasure that we can say this year was once again overwhelmingly successful for staff and students alike. Congratulations to James Rutka on his reappointment as the R.S. McLaughlin Chair of Surgery for a second five-year term. Top this reappointment, in 2014 Dr. Rutka was appointed to the Order of Ontario for his significant contributions to the development of better treatments for children with malignant brain tumors. In 2015, he was appointed Officer of the Order of Canada for his contributions to advancing treatment for pediatric brain tumours and for his international leadership in neurosurgery. We remain prouder than ever of our staff, who continue to expand their roles. Christopher Calderone has been appointed as the Dr. Robert B. Salter Chair in Surgery at the Hospital for Sick Children. Fred Gentili has been appointed as the Crean Hotson Chair in Skull Base Surgery. Tony Finelli was appointed as Head of the Division of Urology at University Health Network (UHN). Michael Tymianski was honoured with the Harold & Esther Halpern Chair in Neurosurgical Stroke Research, UHN. Led by the Division of Urology Chair, the Department of Surgery partnered with Astellas Pharma to create the Astellas Prostate Cancer Innovation Fund, with the determination of supporting advancing and catalyzing prostate cancer research.

Over 250 scientists, surgeon-teachers, surgeon-investigators and surgeon-researchers remain the shining local, national and international stars with their promotions, grants received and high impact journal articles.

The Surgeon Scientist Training Program (SSTP) has been emulated by other departments and universities. It is with great pride that we continue to attract surgery residents to take a break from their clinical training to get a taste of the research path towards a MASc, MEd, MSc, or PhD. We had 14 new and 30 continuing residents enrolled in the SSTP for July 2016. 89% of our SSTP trainees were successful in receiving full or partial salary support from external granting agencies. Seven SSTP residents were awarded the CIP-MOH stipend.

Our surgical staff had a phenomenal research year. Whether they were Principle Investigators or co-investigator collaborative efforts, we wrapped up the 2015–16 academic year with over $55 million in grants received. Congratulations to Peter Dirks, Michael Fehlings, Steven Gallinger, Shaf Keshavjee, Michael D. Taylor and Michael Tymianski on receiving over $1M. Amazing is the word used for our researchers this year. The list of grant award recipients is tremendously long. To name a few, congratulations to Nancy Baxter, Sean Cleary, Sunit Das, Karen Davis, James Drake, Gregory Fairn, Anand Ghanekar, Marc Jeschke, Andras Kapus, David Karp, Paul Karamanos, Abhayu Kulkarni, Ren-Ke Li, Mingyao Liu, Cindi Marsland, Joao de Rezende Neto, Hong-Shuo Sun, Tatsuki Yamada, Subodh Verma, Cara Whyne, Albert Yee, Gelareh Zadeh, Toni Zhong on successfully being awarded grants from various granting agencies, such as Canadian Breast Cancer Foundation, Cancer Care, CCSRI, CIHR, NIH, NSERC, OICR. Peter Dirks had the lead role in the Stand Up To Cancer (SU2C) Canada Cancer Stem Cell Dream Team. This Team encompasses an amazing array of researchers which includes our own Michael D Taylor. They will receive $11.7M over 4 years. Michael Fehlings was the recipient of one of four new Disease Team and New Ideas project that was funded by the Ontario Institute for Regenerative Medicine for over $1.4M. He was also part of a team who received a $1.5M grant for 5 years from the Ontario Brain Institute to work on the “Childhood Cerebral Palsy Integrated Discovery Network” (CP-NET).

It is with immense pride that we announce the latest Order of Canada awards: John Hagen, Mentor of the Year Awardee, Royal College of Physicians and Surgeons; Michael Fehlings and Shaf Keshavjee as Fellows of the Canadian Academy of Health Sciences; Bernard Langer and Charles Tator were inducted into the Canadian Medical Hall of Fame. Michael Fehlings was also inducted as a Fellow in the Royal Society of Canada. Shaf Keshavjee, Officer, Order of Canada. Laurence Klotz, Member, Order of Canada. Andres Lozano, Officer, Order of Canada. Agostino Pierro, Officer, Order of British Empire. John Trachtenberg, Queen Diamond Jubilee Medical.

We are very pleased with the success of the 42nd Gallie Day, which reflected the excellence in the Department of Surgery at the University of Toronto. Drs. James Rutka and Michael Fehlings reflected on the major social, medical, scientific and political changes which have occurred over the past 42 years. The theme of this year’s Gallie Day was “Knowledge Translation: Making Research Matter”. Knowledge Translation (KT) encompasses communication between knowledge users and knowledge makers and results in mutual learning through the process of planning, generating, disseminating, and relating existing or new knowledge to enhance the patient’s health. What we know and what we do with this knowledge was highlighted throughout the symposium and the keynote speaker lecture.

The Knowledge Translation symposium, “Knowledge Translation: The Next ‘Blue Ocean’”, which was chaired by Michael G. Fehlings, featured 4 exceptional speakers. Michael Fehlings started the symposium with his introductory talk on “The Next ‘Blue Ocean’”, which reflects the concept that successful organizations strive to develop new and innovative opportunities or “Blue Oceans” rather than simply competing for diminishing resources in “Red Oceans”. KT represents an enormous opportunity or “Blue Ocean” for academic surgeons to link discovery with practical translation and hence have real impact. Anna R. Gagliardi (Scientist, Toronto General Research Institute, University Health Network; Associate Professor, University of Toronto (Surgery; Institute of Health Policy, Management & Evaluation; Institute of Medical Science) gave an overview of KT in her talk, entitled “Essentials of Knowledge Translation Practice and Science”. Anna relayed her research experience in ensuring that stakeholders are aware of and use research evidence to inform their health and health-care decision-making, leading to improved health. She continued her talk on scientific studies of methods to promote the systematic uptake of research findings and other evidence-based practices into routine practice and, therefore, to improve the quality and effectiveness of health services. She discussed
processes, challenges, outcomes and impacts of KT. She also gave specific examples of KT strategies from her work related to guideline implementation. Anna continued with findings from a recent systematic review on integrated knowledge translation which shows that we have little evidence that researcher-decision maker partnerships lead to greater uptake of research. Shaf Keshavjee (Surgeon-in-Chief, Sprott Department of Surgery, UHN; James Wallace McCutcheon Chair in Surgery; Director, Toronto Lung Transplant Program; Director, Latner Thoracic Research Laboratories; Professor, Divisions of Thoracic Surgery & Institute of Biomaterials & Biomedical Engineering, University of Toronto) captivated the audience with his talk entitled “Innovation: Opportunities, Academia and Changing the Ecosystem”.

Robin McLeod (Angelo and Alfredo De Gasperis Families Chair in Colorectal Cancer and IBD Research) gave an engaging talk entitled “Clinician Engagement - Why is it important?”

Andrew W. Howard (Paediatric Orthopaedic Surgeon, Hospital for Sick Children; Professor, Departments of Surgery and Health Policy, Management & Evaluation; Director, Office of International Surgery, University of Toronto) wrapped up the symposium with his talk entitled “A Tale of Two Results: Reflections on Real World Uptake of Injury Prevention Interventions”.

This year’s Gordon Murray Lecturer was Dr. Mohit Bhandari (Professor and University Scholar Academic Chair, Div of Orthopaedic Surgery; Associate Chair-Research, Dept of Surgery; Executive Director, Center for Evidence-Based Orthopaedics; Canada Research Chair in Evidence-Based Orthopaedics, McMaster University, Hamilton, Ontario, Canada) “To Succeed, We Must Often Fail”. Professor Bhandari’s lecture was an inspiring account of his experiences as a successful academic surgeon. His central message was that one should not be discouraged by failure—but use these challenges as learning opportunities to drive success.

This was the second year E-Poster presentations were used. Electronic Posters or E-Posters are mini oral presentations displayed on-site on a large LCD screen. We had a record number of abstracts submitted by trainees working with our faculty. There were 18 platform presentation groups with a total of 83 e-poster presentations. The Galle 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 immensely high quality research being conducted throughout our Department.

We had 10 excellent oral presentations, all of which were of exceptional quality. Surgeon Scientist Training Program (SSTP) residents are awarded the Galle Bateman prizes for best oral presentation and e-poster presentation. We had two First prize oral presentation awardees. Marisa Louridas [Peter Szasz (SSTP), Andreas B Fesco (SSTP), Michael G. Zywiel (SSTP), Parisa Lak, Ayse B. Bener, Kenneth A. Harris, Teodor P. Grantcharov] gave an excellent talk entitled, “Practice does not always make perfect: Need for selection curricula in modern surgical training” (Teodor P. Grantcharov, Supervisor). Kim Tsoi [Sonya MacParland, Max Ma, Vincent Speetzler, Juan Echeverri, Ben Ouyang, Nicolas Goldaracena, Johann Mortiz Kaths, John Conneely, Benjamin Alman, Markus Selzner, Mario Ostrowski, Oyedele Adeyi, Anton Zilman, Ian McGilvray, Warren Chan] was tied for 1st prize with her enthralling nanoparticle presentation entitled, “Towards understanding nanoparticle uptake by the liver: The role of flow dynamics, and cellular phenotype” (Benjamin Alman and Warren Chan, Supervisors). Mohammad A Hussain [Muhammad Mamdani, Jack V Tu, Gustavo Saposnik, Deepak I Bhatt, Subodh Verma, Mohammed Al-Omran] received second prize for his presentation entitled, “Carotid surgery versus stenting: A contemporary population-based analysis of long-term outcomes” (Mohammed Al-Omran, Supervisor). Third prize was received by James P. Byrne [Stephanie Mason (SSTP), David Gomez, Avery B. Nathens] for his interesting work entitled, “Timing of venous thromboembolism prophylaxis in severe traumatic brain injury: A propensity-matched cohort study” (Avery B. Nathens, Supervisor).

First prize for SSTP Resident E-Poster presentation was awarded to Peter Szasz [Ethere Boutrath, Marisa Louridas (SSTP), Andreas Fesco (SSTP), Brett Howe, Adam Fehr, Michael Ott, Lloyd Mack, Kenneth Harris, Teodor Grantcharov] for his poster presentation entitled, “Setting performance standards for technical and non-technical competence in General Surgery” (Teodor P. Grantcharov, Supervisor). Second prize was won by James J. Jung [Teodor Grantcharov], entitled “Approach to asymptomatic paraesophageal hernia: Elective laparoscopic hernia repair or watchful waiting?” (Teodor P. Grantcharov, Supervisor). Stephanie Mason [Avery Nathens, Alejandro Gonzalez, Paul Karanicolas, Rob Fowler, Marc Jeschke] received third prize for her poster presentation entitled, “Persistent morbidity requiring urgent re-admission after major burn injury: A population-based analysis” (Avery Nathens and Marc Jeschke, Supervisors).

The McMurrich Awards are presented to research trainees who are not in the Surgeon Scientist Training Program. The oral presentations were exceptional. The first place award was won by Rachel Vanderlaan [Yaqina Yana Fu, Jingyi Pan, Anouk Martine–Teichert, Iajuan Zhu, Mauro Lo Rito, Jason Maynes, John Coles, Jaques Belik, Christopher Caldarone] for her oral presentation, entitled, “Myofibroblast deposition and altered pulmonary vein reactivity contribute to disease progression in a surgical model of pulmonary vein stenosis” (Christopher A. Caldarone, Supervisor). Christopher D. Witw [Lindsay A. Tetreault, Fabrice Snielukauskas, Branko Kopjar, Eric M. Massicotte, Michael G. Fehlings] received second prize for his oral presentation entitled, “Surgery for degenerative cervical myelopathy: A patient centered quality of life and health economic evaluation” (Michael G. Fehlings, Supervisor). Third prize was received by Amin Mazine [Cedric Manlihot, Vivek Rao, Edward J Hickey, Shakira Christie, Tiron E David, Maral Ouzounian] for work entitled, “Long-term outcomes of the Ross Procedure versus mechanical aortic valve replacement: A propensity-matched cohort study” (Maral Ouzounian, Supervisor).

McMurrich Awards were also bestowed upon a group of individuals who presented remarkable e-posters. First prize went to Reinhard Dulp (Marc Jeschke, Sead Anmini-Nik – Supervisors) for his presentation entitled, “Burn derived stem cells are comparable with other sources of stem cells”. Second prize was awarded to Janne Folke Bialik (Andras Kapus, Supervisor) for the presentation entitled, “Mechanisms underlying the induction of a profibrotic epithelial phenotype during renal fibrosis” (Akihiro Ohsumi [Katherine Marsey, Peter Slinger, Karen McRae, Ilker Iskender, Maniyin Chen, Kohei Hashimoto, Hisashi Oishi, Hyunhee Kim, Zehong Guan, David M. Hwang, Thomas K. Waddell, Mingyao Liu, Shaf Keshavjee, Marcelo Cypel] received third prize for presentation entitled “The effect of sevoflurane in pre- and post-conditioning of ischemia-reperfusion injury in a rat lung transplantation model”.

Every year we honour our faculty with research awards that demonstrates the great work continuous array of magnificence.
Andrea McCart have gone as well as it did without everyone's participation and Day and Evening awards ceremony went, we need to acknowledge the and judged the oral presentations. As we take pride on how great the thanks, as well as the Research Committee members who reviewed the who volunteered their time for the e-poster judging deserve special The 52 judges for the e-poster competition as well as the 18 timers, Surgery). considered good surgical role models for undergraduate medical residents demonstrated positive attitudes toward teaching and were teaching has been highly evaluated by medical students. Both of these year we have two residents who are recipients of this award, whose rated by undergraduate students as being an outstanding teacher. This Award for Langer Centre over the past year. This was presented to demonstrates the Centre's commitment to surgical skills education. This award recognizes those individuals who have made exemplary, innovative contributions to teaching and learning in the Surgical Skills Centre over the past year. This was presented to Sandra de Montbrun (Surgeon Scientist, General Surgery). D.R. Wilson Award for teaching is made annually to the surgical resident who is rated by undergraduate students as being an outstanding teacher. This year we have two residents who are recipients of this award, whose teaching has been highly evaluated by medical students. Both of these residents demonstrated positive attitudes toward teaching and were considered good surgical role models for undergraduate medical students. The awardees are Joshua Allon Greenberg (General Surgery) and Kathryn Vanessa Isaac (Plastic and Reconstructive Surgery).

The 52 judges for the e-poster competition as well as the 18 timers, who volunteered their time for the e-poster judging deserve special thanks, as well as the Research Committee members who reviewed and judged the oral presentations. As we take pride 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 McCart for assigning the judges to the posters, Natalie Coburn and Jack Langer for expertly moderating the sessions, and Sylvia Perry for making sure the day's and evening's preparations were adhered to perfection.

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 went to Anand Govindarajan (Surgeon Investigator, General 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 was awarded to Toni Zhong (Surgeon Investigator, Plastic and Reconstructive Surgery); Teodor Grantcharov (Surgeon Scientist, General Surgery) – Charles Tator Surgeon Scientist Mentoring Award – recognizing individual supervising participants in the SSTP who emulate Professor Tator’s qualities, namely excellence in research, commitment to SSTP mentoring and dedication to promotion of Surgeon-Scientists; Michael D. Taylor (Surgeon Scientist, Neurosurgery) – 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 sixth 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 Nir Lipsman (PGYVI, Neurosurgery), a recent SSTP graduate who obtained his PhD with Professor Andres Lozano. 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 Christoph Haller (Fellow, Cardiovascular Surgery). The Tovee Award is presented to an academic staff member of the Department of Surgery who has made the greatest contribution to the educational activities of the Department, as exemplified by Dr. E. Bruch Tovee during his outstanding career. This year’s recipient of the Tovee Postgraduate Prize is Georges Azie (Surgeon Teacher, General Surgery), and Dennis Di Pasquale (Surgeon Teacher, Orthopaedics) received the Tovee Undergraduate Prize. The Surgical Skills Centre Distinguished Educator Award demonstrates the Centre’s commitment to surgical skills education. This award recognizes those individuals who have made exemplary, innovative contributions to teaching and learning in the Surgical Skills Centre over the past year. This was presented to Sandra de Montbrun (Surgeon Scientist, General Surgery). D.R. Wilson Award for teaching is made annually to the surgical resident who is rated by undergraduate students as being an outstanding teacher. This year we have two residents who are recipients of this award, whose teaching has been highly evaluated by medical students. Both of these residents demonstrated positive attitudes toward teaching and were considered good surgical role models for undergraduate medical students. The awardees are Joshua Allon Greenberg (General Surgery) and Kathryn Vanessa Isaac (Plastic and Reconstructive Surgery).

Albert Yee is the Vice Chair Research for the Division of Orthopaedic Surgery, University of Toronto. Albert was in the SSTP from 1994 – 1996, working with Drs. Rod Davey and Earl Bogoch toward his MSc. Albert started his talk by emphasizing that the current state of the art in surgical practice changes rapidly. It is very likely that what and how you practice by mid-career will be very different than what was considered ‘gold’ standard of care during your surgical residency. These changes in practice occur directly because of research discoveries (either directly in the field or indirectly impacted because of new knowledge outside the field). Keeping current is important - medicine is a life long process. There is a tremendous opportunity to be involved in academic surgery; keep an open mind. The SSTP is an opportunity not to be missed during surgical residency.

Andras Kapus is the Associate Vice Chair Research in the Department of Surgery, University of Toronto. Andras spoke about the unsurpassed opportunities that the SSTP offers in terms of both researchable topics and the availability of the selecteable supervisors, both within the Department of Surgery (including > 170 surgeon scientists, surgeon investigators and 48 basic scientists) and at U ofT in general. He was also alluding to the “psychology” of being a successful SSTP trainee, calling attention to challenges of the transition from a very structured to a predominantly self-motivated and organized lifestyle, and the most effective strategies that minimize the stress and sense of incompetence, and maximize the creativity and productivity of the trainees.

Rebecca Gladdy is a Surgical Oncologist at Mount Sinai
Hospital/Princess Margaret Cancer Centre. Her clinical expertise and basic science laboratory are based on the management and molecular basis of soft tissue sarcomas. She was in the SSTP from 1998 – 2003 working with Drs. Jayne Danska and Cindy Guidos and received her PhD in cancer biology. In her comments to the residents, she highlighted that basic science is a creative and rewarding career as it allows one to ask fundamental questions based on clinical observations that are unanswered. The SSTP affords trainees the time to learn how to critically think, design and interpret experiments to answer a question and develop written and presentation skills. Although basic science is perceived as a more challenging stream, it is really critical that surgeons continue to develop translational research programs that interface with basic science so that clinical challenges in our surgical patients are examined at a more fundamental level.

Nancy Baxter is a colorectal surgeon and the Head of the Division of General Surgery at St. Michael’s Hospital. She is a Health Service Researcher with interests in screening effectiveness, long-term survivorship of cancer survivors and quality of surgical care. She was in the SSTP from 1993–1997 working with Dr. Robin McLeod and received her PhD in clinical epidemiology. Participation in the SSTP gave her the tools to develop her current program of research; she acquired expertise in research methods, critical thinking and medical writing. She states that training in clinical epidemiology provides you with fundamental knowledge that is easily transferred – you are not tied to a particular molecule or disease. This is a wonderful path for those with clinical curiosity – you have the ability to ask and answer clinically important questions and have an impact on medical care in a relatively short period of time.

Abhaya Kulkarni is the Director of the Neurosurgery Residency Program and Senior Scientist at the Hospital for Sick Children. He was in the SSTP from 1998 – 2003 working towards his PhD in clinical epidemiology with Dr. James Drake. Ab stated that research in clinical epidemiology has several attractive features. First, the research that you do is immediately accessible in daily clinical practice. Second, the impact of your work can be immediate, sometimes leading to instantaneous changes in practice worldwide. Third, the research techniques you learn in clinical epidemiology are widely applicable and transferable across a range of clinical subspecialties. Finally, gaining expertise in clinical epidemiology makes you a much more sophisticated consumer of the medical literature and, in many ways, a better clinic decision-maker.

Saswata Deb is a recent cardiac surgery SSTP graduate and a cardiac surgery PGY IV resident. His supervisor and mentor is Dr. Stephen Fremes and his PhD thesis is “Investigating Patient and Surgical Factors Affecting Early and Late Outcomes after Coronary Artery Bypass Grafting Surgery”. In his own words, the SSTP is a real unique program in North America and offers surgical residents a great opportunity to pursue a graduate degree while in residency. In addition to funding support, the SSTP has a wealth of resources, including a world class faculty who can be your supervisor and mentor. This undoubtedly is one of the best times in your career to pursue formalized research education, because not only do you get to learn about different scientific methodologies, but there is ample opportunity to apply that knowledge while undertaking research in the field of your specialty and producing quality publications.

Sebastian Tomescu is a recent SSTP graduate and new Lecturer/Surgeon Investigator, Staff Orthopaedic Surgeon at Sunnybrook Health Sciences Centre. He impressed upon the excellent resources and support available through the SSTP, and the incredible breadth of research opportunities that exist at UofT. He advised residents to explore various labs and areas of research in order to find an area they feel truly passionate about which will undoubtedly lead to a productive and rewarding experience.

Christopher Ahuja is a PGY-4 Neurosurgery SSTP, pursuing a PhD. Research focus is on human stem cell research for traumatic spinal cord injury with Dr. Michael Fehlings at Toronto Western Hospital, University Health Network. He indicated that the SSTP provides residents with an invaluable safeguard to undertake graduate training and aids in developing a rich network of mentors. I would encourage upcoming surgeon-scientist trainees to explore fields they are passionate about, engage a supervisor early on, apply broadly to funding opportunities, and strongly consider the unique resources offered by the SSTP.

James Byrne is a PGY-4 General Surgery SSTP, pursuing a PhD in clinical epidemiology at IHPME. Research focus and career interest is in trauma surgery. He works with Dr. Avery Nathens at Sunnybrook Hospital. James made a several important remarked about the SSTP. Come into the SSTP inspired to pursue research in a field that is related to your chosen career path. The training and opportunities in the Program are best used when you know what you’re using them for - not just to “get a Masters”. Get to know your potential supervisor personally, their track record in mentorship, and ask their previous graduate students what it was like to work with them - This is someone you will rely on to help guide you in the coming years. It’s important that you get along well and that they are accessible. When forming your thesis committee, choose people who you are sure will bring methodological or content expertise. Keep in mind that you will have to bring all of these very busy people together several times for your thesis proposals and/or defense. Apply to as many external funding agencies as possible; your chances of getting funded are good. The biggest attributable factor to not getting it, is not trying. Seriously consider the clinical epidemiology stream of training if it relates to your field of work. The training in clin epi at U of T is truly excellent, and in a matter of one year you will have a lasting knowledge of study design and statistics. And despite the rumours, the slightly heavier coursework actually helps your own research, as it is taught by clinicians who do what you are doing, and the course assignments are often based on your own work.

Carol Anne Moulton is a General Surgeon at TGH and Scientist at the Wilson Centre. She was in the SSTP from 2004 – 2009 working towards her Masters of Education (MEd), as well as a PhD in cognitive psychology with Drs. Richard Reznick and Glenn Reghr. Her research interests include the psycho-sociological considerations of surgical judgment and error. She has had several Masters students through the SSTP and gave some advice on some potential areas for conducting educational research. She described various pathways from technical skills/lab based research to naturalistic qualitative research depending on the area of interest and the research question. She recommended getting involved in some way with the Wilson Centre activities as they provide personal connections as well as theoretical knowledge for any academic pursuit in education research. There are several surgeons across the department and different hospitals that are taking students. She mentioned Teodor Grantcharov and Allan Okrainec as examples. In the end, her message was that educational questions should be considered broadly (power dynamics, culture, teamwork, technical skills, etc) and the Masters/PhD student should follow and develop their areas of passion.

Although Andrew Howard was not able to attend, he felt it very important for the Global Health surgery information to be available to all residents. Surgical trainees may arrange research and/or scholarly electives abroad as part of their royal college training program. In addition, selected residents may be able to pursue master's degree training in global surgery via a variety of science and/or education degree programs offered by the University of Toronto. Faculty
members from almost every division are active in global surgery education, research, and scholarship. Residents who are interested in pursuing training or experience in global surgery are encouraged to contact Andrew Howard, professor of surgery and director, Office of International Surgery, andrew.howard@utoronto.ca.

Michael Fehlings hosted the 2nd Research Strategic Planning Retreat, which was held on Friday, January 18, 2016 at the BMO Education & Conference Centre, Krembil Discovery Tower, TWH. It was extremely successful. Dr. James Rutka welcomed everyone to the second annual Department of Surgery Research Retreat. He discussed the importance of surgical research as the foundation upon which the Department and hospital-affiliated Research Institutes grow and continue to flourish on a local, national, and international scale. With continued success in publications, citations, funding, and patents, the Department of Surgery's Strategic Plan prioritizes the sustained and expanded support of the SSTP and faculty scientists.

Dr. Trevor Young, Dean of the Faculty of Medicine, spoke of the importance of the Department's work within the Faculty of Medicine's contribution to the Canadian medical landscape. He commented on the growth in clinical and research output during Dr. Rutka's term as Chair, as well as recognizing the outstanding contributions of Drs. Shaf Keshavjee, Todd Mainprize, Steven McCabe, and Ronald Zuker.

Dr. Michael Fehlings reviewed the objectives and outcomes of the 2015 Retreat, citing the resident Town Hall meetings and Career Nights as some of the year's notable developments. He reviewed the 2016 objectives:

- To provide an update on the progress of the Surgery Research Program, as set in the 2015 retreat.
- To engage the Research Institutes and University partners in exploring collaborative strategies for improved career and research outcomes.
- To develop strategies that supports the sustainable growth of the SSTP.
- To identify priority actions for the next 12-18 months that will advance collaboration and advancement.

Dr. Fehlings began the day by reviewing the profile of the Department of Surgery Scientists, with the majority holding appointments at hospital-based Research Institutes.

Dr. Andras Kapus, Associate Vice-Chair of Research at the Department of Surgery, expanded on the faculty profile through the presentation of ranks, trends, and opportunities/challenges.

Dr. Ori Rotstein spoke about the Continuing Appointment Review (CAR) process, highlighting the following points:

- Role of RIs: Delegates will sometimes attend reviews, but it is not consistent. At times, letters of recommendation written by RI supervisors will be provided for the CAR packages.
- Outcomes: Reviews yield recommendations for further career growth.

It was emphasized that the CAR is an effective process that provides valuable feedback, but there is room for growth when it comes to including the Research Institutes in a candidate's evaluation. RI input could leverage opportunity for more complete feedback, collaborations, and grant options.

Dr. Richard Hegele, Vice Dean of the Faculty of Medicine, spoke about the evolving role of innovation in medical research. He acknowledged its prioritization in both healthcare settings and government agendas, such as Prime Minister Trudeau's recent commitment to CCRN. He spoke of the importance of recognizing a faculty member's contribution across a wide diversity of areas in his or her evaluation process, as individual priorities can still be aligned within the Department and/or Research Institute's expectations. Dr. Hegele discussed the need for medical institutions to adapt within resource-constrained settings and praised the Department of Surgery for its high-impact outputs despite these limitations. Contributions as such and the collaborative efforts of the Clinical Affairs group at TAHNS have helped the Faculty of Medicine secure the 11th place spot in 'Performance Business' in Forbes' Higher Education rankings. Dr. Hegele concluded by emphasizing the need for collaboration through industry partners, higher awards, and global organizations.

Dr. Norman Rosenblum, Associate Dean of Physician Scientist Training and Director of the Clinical Investigator Program (CIP), reviewed the structure of the CIP. Trainee feedback has provided quality ratings of 4.7/5, with 89% of trainees indicating their intent to work as a physician scientist.

Looking ahead, the CIP will consider further integration of clinical and research activities, as well as best practices in professional skill development. There will also be consideration of cohesion with the surgeon-scientist educational pathway. Interdisciplinary problem-solving and knowledge translation will become increasingly important, as they will leverage collaborative efforts across the Faculty.

Dr. Bernard Langer, Professor Emeritus of the Department of Surgery, spoke about the initiation of the Surgeon Scientist Training Program in 1983. He discussed the importance of clinical research in the longevity of both the Department of Surgery and within the context of Canadian healthcare. Sustainable fundraising is crucial for the SSTP, as it is the vehicle through which this excellence in research will be upheld. Dr. Langer discussed the need for individual scientists to demonstrate pursuit of meaningful projects as leverage for bootstrapping onto existing resources and joining teams that have already received larger grants. He also recommended the need for a regularly maintained donor database and keeping these individuals updated on the clinical achievements of the scientists. By capitalizing on existing successes, donors will feel inclined to increase donation value and/or frequency.

Dr. Avery Nathens, spoke about program sustainability as a result of access to resources and a supportive environment. He credited his own career trajectory to having an open mind to new opportunities, and to having excellent mentorship. He emphasized the importance of personal growth within the SSTP, as it provides a risk-free environment to pursue one's own interests and avenues. He concluded by discussing how future investments should focus on great leadership, innovation, and strong mentorship.

Mr. David Grieco, Senior Development Officer for the Department of Surgery, provided an overview of the SSTP fundraising highlights and strategies. The highlights of 2015 included the Bernard & Ryna Langer Chair in General Surgery, Frank Goerc Cardiovascular Research Funds, and the additional funding of the SSTP as an add-on to the Divisions of Plastic & Reconstructive Surgery and Urology.

Funding strategies for the SSTP will focus on major gifts, alumni relations, and networking with faculty and interdisciplinary teams. Other SSTP models will included an endowed Vice-Chair of Research, Divisional Chairs, SSTP scholarships, and Post-SSTP funding through Rising Stars Professorships.

In closing, the afternoon was a discussion period between the Research Institute Directors or designates, surgery staff and SSTP residents attending. The Retreat focused on the University-Hospital Collaboration in Fostering Excellence in Surgical Research. The following personnel from the Research Institutes attended and participated: Jim Dennis representing Jim Woodgett, Director of
Research, Mount Sinai Hospital; Geoff Fernie, Director – Toronto Rehabilitation Institute (TRI); Mansoor Husain, Director, TGR; David Jaffray, Director, TECHNA; Michael Julius, Vice President Research, Sunnybrook Health Sciences Centre and Sunnybrook Research Institute; Michael Salter, Chief of Research, Hospital for Sick Children; Vuk Stambolic; representing Brad Wouters, Interim Director, OCI/PMH; Ori Rotstein, Surgeon-in-Chief, representing Art Slutsky, Vice President of Research, St. Michael’s Hospital; Donald F. Weaver, Director, Krembil Research Institute, UHN (formerly Toronto Western Research Institute).

Feedback from the SSTP Career Night, which was held on Monday, February 29, 2016, was very positive. Michael Fehlings hosted the evening, which comprised of an informal panel discussion with surgical faculty who have a strong interest in helping residents succeed in their careers. Faculty was from multiple surgical specialties, ranging from junior to senior surgeon scientists and surgeon investigators. Faculty included Mitesh Badiwala, Nancy Baxter, Sav Brar, James Drake, Peter Ferguson, Tom Forbes, Paul Karanicolas, Girish Kulkarni, Carol-Anne Moulton, James Rutka, Tom Waddell, Paul Wales, Albert Yee and Gelareh Zadeh. The focus of the conversation was how to plan the next steps of your careers, including how to best plan your fellowships, how to be successful when looking for jobs, how to maintain work-life balance, and more. Each of the panel gave their personal perspective of their journey from resident to their present role. This was an informal event with a variety of topics including, how to be successful in the job search, achieving a clinical-research-life balance, choosing the right fellowship, early career funding, what advice would you give to current SSP trainees that you wish you had during residency? Eight-five percent found the event very helpful, 75% thought the length was perfect, and all respondents said they would welcome a similar event in 2017. All topics were appreciated, particularly fellowship and contract discussions.

Michael Fehlings and the Department of Surgery Research Committee promise to plan updates from 2015 and new captivating endeavours. New Research Committee members, Mark Erwin, Rebecca Gladdy and Paul Karanicolas will be introduced in September 2016, with a special thanks to the pioneer members, Karen Davis, Steven Gallinger, and David Urbach.

The list of faculty members who were successfully promoted continues to grow. Jamil Ahmad, Brian Ostrow, Jason Pennigton, Najib Saieddine, and Jory Simpson were promoted to Assistant Professor. Marcelo Cypel, Leo Da Costa, Amr Elmaraghy, Rajiv Gandhi, Osami Honjo, Sevan Hopyan, Paul Karanicolas, Mark Peterson, Graham Roche-Nagle, Oleg Safir, Tom Schweizer, Markus Selzner, Christine Werneck, and Daniel Whelan were promoted to Associate Professor—while Nancy Baxter, Timothy Daniels, Teodor Grantcharov, Mojgan Hodaei, Andrew Howard, William Hutchison, Wolfgang Kuebler, David Latter and Darryl Ogilvie-Harris were promoted to Full Professor.

As we wrap up another successful year, it is obvious that research plays an extremely significant role in our staff and trainees academic life. It is anticipated that the future research accomplishments will expand our goals and objectives.

A very special thanks to Val Cabral, Research Program Manager, for her implausible dedication and hard work in organizing every aspect of the Research Office.
Postgraduate Education
Ron Levine, Director

The Department of Surgery at the Postgraduate level is the largest in Canada with 276 residents and 269 clinical fellows. There have been many accomplishments and successes in the 2015-2016 academic year.

There are 11 surgical programs: 7 CaRMS entry and 4 subspecialty programs. The backbone of the 11 surgical programs is the Program Director and their administrative assistant. It is a huge thankless job to coordinate and maintain each of these surgical specialties.

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

The first two years of training in surgery is known as Surgical Foundations. Besides attending specialty-specific academic endeavors, the Surgical Foundations residents attend the Surgical Foundations lectures to prepare them for the Surgical Foundations Royal College Exam. Dr. Blitz coordinated the weekly lecture seminars and he also organized the practice exam that took place in February 2016.

The surgical skills prep camp entered its third year during 2015-2016. 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.

Some of the surgical specialties have started to meet with the Royal College to develop Competency by Design (CBD) for their specialty. Over the next 5 years all surgical specialties will have to adopt CBD.

There are a number of academic days to enhance the educational experience of the surgical resident. In July 2015, the Core Surgery residents attend “The Surgeon in Society” where communication skills with respect to difficult topics including end-of-life decision-making were discussed. This is run by Dr. Karen Devon and Dr. Ron Levine.

Dr. John Murnaghan runs “Residents as Teachers” for the 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.

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 269 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 276 residents, 269 fellows and 250 faculty members is a huge endeavor. This is masterfully done by Tess Weber and Robert Gardin.

Fellows Barbeque 2015
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.

Prelude to Surgery: Under the stewardship of Melinda Musgrave, the ‘Prelude to Surgery,’ has completed one year. From initial feedback, the course has been well accepted by students and addresses many of the shortcomings of the previous course. The level of involvement and enthusiasm of the resident instructors at the course is encouraging and commendable. This course 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.

New format of Surgical clerkship from September 2016: Launching from the mandatory 3-week General Surgery sub-rotation instituted in September 2015, the Undergraduate Education Committee recommended that the 8-week surgical clerkship course be modified to a 2 sub-rotation model of 3 weeks each. General Surgery is to continue to be a mandatory 3-week sub-rotation. The new format will be as follows: 1 week, ‘Prelude to Surgery,’ 3-week sub-rotation and 3-week sub-rotation, final week of seminar, examination preparation, and oral and written examination. This change is effective September 2016.

Web-based NBME Surgery clerkship written examination: As of July 2015, the end-of-clerkship examination has transitioned into a web-based format. Also of note, starting from the 2016-17 academic year, students based at the Mississauga Academy of Medicine will be able to attempt their examination in that location.

Recognition of outstanding resident teachers: Recognizing the integral role of residents as teachers, particularly during clerkship, we have been regularly identifying excellent resident teachers and working with the Department’s Director of Postgraduate Education’s office to provide feedback and commendation to these individuals and the leaders in their respective divisions. I wish to thank Ron Levine and his team for their gracious cooperation in this regard.

New Director, Education Evaluation and Innovation: I would also like to congratulate Melinda Musgrave who took on this very important role in 2015. We look forward to some effective and innovative ways to identify our truly outstanding teachers.

On-call feedback forms process implemented: Following the formalizing and enforcement of 1:4 in house call for clinical clerks, on-call formative feedback forms have been distributed. These forms are to be completed while on call and submitted at the end of the surgery rotation. 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 second year of the Longitudinal Integrated Curriculum was successfully completed with 22 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: Raising the interest and attracting the brightest minds to the field of Surgery continues to be the focus. The Surgical Education And Discovery (SEAD) program continued its success. 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.

George Christakis Provan Award

George Christakis, Director
Continuing Professional Development

Terry Axelrod, Director and Chair

2015-16 Activities

- 28 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 (400), Urology Update 2014 (193) as examples.

- New programmes were initiated at International locations, such as the World Society of Stereotactic and Functional Neurosurgery in Mumbai, India attended by 350 people. The International Conference of Surgical Education and Training was held under Dept of Surgery Sponsorship with CPC accreditation in Copenhagen, Denmark.

- Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CPD jurisdiction.
Global Surgery 2015-2016

This year I have chosen to report on and highlight the international surgery work by some of our residents. Global surgery is a young and evolving field with a bright future. Read on. Among our current residents we have inspiring academics who lead some of the most important global surgery projects being published today.

To illustrate the range of involvement, I have interviewed Maeve Trudeau (PGY4 general surgery), Anna Dare (PGY2 general surgery), Scott Kim (PGY1 orthopaedics), and Joshua Ng-Kamstra (PGY4 general surgery). This is by no means an exhaustive list. We have many other residents and faculty working here and with partners worldwide.

What is your most recent contribution in the global surgery sphere?

MT – A paper in Seminars in Pediatric Surgery entitled, “Injuries and surgical needs of children in conflict and disaster: From Boston to Haiti and beyond”, This built on our previous publication in JAMA Surgery, “Surgical Care of Pediatric Patients in the Humanitarian Setting: The Médecins Sans Frontières Experience, 2012-2013.” Both of these publications assess the specific needs of the surgical pediatric population in conflict and disaster humanitarian settings, and the more recent paper also addresses professionalization of pediatric surgical interventions in humanitarian settings.

AD – I have been involved with several international Commissions over the past few years which have sought to build an evidence and policy base around the need for greater access and equity in global surgical care. This includes the Lancet Commission on Global Surgery, the Lancet Commission on Global Cancer Surgery and the Lancet Series on Women’s Health, Equity and Cancers the latter of which was published this month. (Anna has in fact been first author on many of the papers produced by the Lancet commissions – ed.)

SK – This past February I travelled to Addis Ababa, Ethiopia for 3 weeks to observe as a medical student in the orthopedics department at Black Lion Hospital. I am analyzing their results of the use of a distal locking intramedullary nail system (the SIGN nail) for tibia and femur fractures. The nails are implanted without the use of fluoroscopic guidance and thus are intended for use in low resource settings.

JN-K - in April 2016, with collaborators from around the world, I authored a roadmap for individuals and institutions (BM) Global Health 2016) seeking to engage in global surgery work. We sought to highlight opportunities for action while at the same time underscoring some of the colonialist pitfalls that can derail efforts.

What contribution are you most proud of (past or present)?

MT – I worked at the HEAL Africa hospital in Goma, Democratic Republic of Congo (DRC). I collaborated with its physicians and other staff for two months, assessing the feasibility of using cell phones to bridge the postoperative accountability gap. Postoperative accountability is often a serious ethical dilemma in humanitarian settings: surgeons fly in, perform surgery, and leave. Records are poor and patients receive no follow-up. Our proof of concept research showed that the ubiquity of mobile phones, even in impoverished settings, provides a solution for remaining in touch with patients. I hope this research will lead to surgeons working with medical non-governmental organizations logging the phone number(s) of their patients, in order to enable follow-up amidst the turmoil of disasters and war. For this research, I was awarded the James H. Ware Award for Achievement in the Practice of Public Health.

AD – In 2014 I had the opportunity to sit down with the Ministry of Health in Sierra Leone, along with other stakeholders in surgical care in the country and redesign their universal health coverage package such that it also included coverage for key emergency surgical conditions, including acute abdominal presentations, fractures and cesarean sections. It was an opportunity to ensure no Sierra Leonian with a life-threatening surgical condition ever walked away from a hospital untreated because they could not afford to pay. One of the most confronting things in our research was that 20% of patients in rural Sierra Leone who actually made it to hospital with an abdominal catastrophe – overcoming many barriers including distance and transport – subsequently left hospital without a life-saving operation because they could not afford to pay for the surgery. Many more never made it to hospital in the first place because of the cost. Although child and maternal health care is free in Sierra Leone, other life-saving health interventions are not, and families have to pay out of pocket for care – including for gloves, sutures, antibiotics and anesthetic gases. A laparotomy can cost ~$US150-200, which is a lot when the average income is only ~$US600 per year. Unfortunately the roll out of this policy was slowed down by the tragedy that was the Ebola outbreak. Encouragingly, the post-Ebola recovery period – and the international funding and support that has come with it – has allowed for reinvigorated commitment and funding of universal health coverage that includes emergency surgical care. Of all the opportunities I have had in global surgery, this is the one I am most proud of as it has the potential for immediate impact on the communities we work with, and elegantly demonstrates how we can use research, advocacy and policy to save lives, including in some of the poorest countries in the world.

SK – I have made connections with the staff and residents at Black Lion Hospital during my visit. They are getting world class results in a very resource constrained environment. I hope I can publish their results with them.

JN-K I led a team of researchers in gathering data for each country on essential surgical indicators. The Lancet Commission on Global Surgery developed a set of country-level surgical indicators designed to quantify the availability, amount, safety, and affordability of surgical care currently delivered. We submitted a report to the World Bank.
which resulted in the inclusion of surgical data within a global health data repository for the first time. This will enable policymakers to examine the data and develop solutions that are relevant to their country. For example, a health minister might see that the number of surgeons, anesthesiologists, and obstetricians per 100,000 people is far below the minimum standard of 20, and decide to invest in training programs.

**What are you planning on working on next?**

MT - I am publishing the postoperative accountability project mentioned above, and continuing work on professionalization of surgical interventions in humanitarian settings. I have ongoing projects surrounding surgical data collection methods and metrics in humanitarian settings, working in collaboration with the Harvard Humanitarian Initiative (HHI) and other international partners.

I also work with Dr. Georges Azzie (University of Toronto & Hospital for Sick Children, Toronto) and his research group on low-cost, high-fidelity laparoscopic models. Our work centres on developing a laparoscopic surgical education model that can be used in surgical settings throughout the world, and in the process assessing the very definition of laparoscopic surgical expertise.

Lastly, I plan to work with rural and Indigenous communities in Canada, and aim to develop research and work collaborations with these populations in the years to come. I believe that an integral part of global surgery is working with the remote and underserviced communities at home as much as abroad.

AD - I am working with Prabhat Jha at the Centre for Global Health Research at St. Michael’s Hospital using a nationally representative study of 1.1 million households to map mortality from acute surgical conditions; from injuries; and from sepsis in India over the past decade. We then plan to relate deaths from these different conditions to access to emergency health care services, including surgical services. Our hope is by identifying high mortality geographic or socioeconomic clusters, as well as underserved areas and populations, we can help the Indian government make more informed decisions about where to focus health resources and policy, to raise the health of all Indians as the country goes through massive economic and epidemiologic transitions.

SK - I am publishing my results and getting on with an orthopaedic residency. I am hoping to have opportunities during residency to return to Ethiopia and tackle the clinical aspects of the trauma burden.

JN-K In the coming months, I will be finishing a systematic review on perioperative mortality in low- and middle-income countries. In the near future, I would like to turn the lens inward and conduct a study looking at regional differences in the availability and accessibility of surgical care within Canada. Specifically, I would like to see how geographic factors and demographic factors such as race influence one’s ability to access surgical care when needed.

**How might you incorporate global surgery into your career plans?**

MT - I hope to shape my future into a hybrid career, working part-time in humanitarian settings and spearheading professionalization of the surgical interventions therein; and part-time in Canada, either in rural settings or at an academic pediatric surgery centre.

AD - My clinical and research interests remain focused on reducing disparities in access to health and surgical services for emergency conditions. These questions are just as relevant in Canada, especially for our indigenous communities and our rural population. My hope is to build a career where I am able to address these issues both domestically and internationally through clinical care, research and policy, splitting my time between home and abroad. While I don’t know this type of ‘academic global surgery’ job exists yet, I am hopeful it one day will! We live in a globalised, highly connected world and the ability to collaborate across borders on issues that affect all of us is easier – and more important – than ever. What is possible is a moving target, with limits defined only by what we are prepared to imagine and to work for.

SK - I believe that the best method to make a meaningful contribution will be to assist with the education of orthopedic residents in Ethiopia or elsewhere. I should be able to incorporate this type of work into my practice in the future.

JN-K I would like to have a Canadian-based clinical practice with the flexibility to work with colleagues in low- and middle-income countries. My academic focus will be on developing local clinical and research capacity. I also envision spending a significant portion of my early surgical career in humanitarian surgery, while continuing to advocate for underserved populations at home.

**Summary**

The Lancet commission has called for surgery for all by 2030. A tremendous amount of innovation, discovery, teaching and learning is required to reach this audacious but important goal. U of T is in an excellent position to contribute. Our residents are creating opportunities for themselves and others in global surgery. They are laying the foundations of a new era of collaborative, creative, and effective professional work. I hope that individuals like this will be recruited into the recently created global surgeon career pathway at U of T.
Division of Anatomy

Cindi M. Morshead, Division Head

The past year has been an exciting and busy time in the Division of Anatomy. The Faculty of Medicine made Anatomy one of the fund raising priorities in order to renovate and rejuvenate our facilities and expand our capacity to provide the new curriculum for the MD program (previously the Undergraduate Medical Program). The renovations will create more flexible and state of the art facilities for teaching and training the hundreds of anatomy students that enroll in anatomy. Our Division faculty and staff have gone to extraordinary lengths to ensure that anatomy students continue to receive the excellent training and educational experience through the massive renovations. Enormous gratitude goes to the staff and faculty that are ensuring a smooth transition.

Recruitment

After a rigorous search, we were thrilled to have Dr. Mubarak Bidmos, MD. PhD join the Division in July 2015 in the capacity of Assistant Professor, teaching stream. Dr. Bidmos received his MD from the University of Lagos and his PhD from the University of the Witwatersrand, where he studied osteometric standards for human identification and directed the MD Anatomy Program. He went on to postgraduate work in Transfusion Medicine from the University of Free State. His outstanding academic record and teaching capabilities proved to be exceptional this year and we look forward to his future commitment and innovation in our Anatomy Programs.

Research Grants

Our research faculty successfully acquired over $1,000,000 in new research funding from federal and provincial granting agencies in the past year including three NSERC funded grants (Agur, Morshead, Sun) and two Ontario Institute of Regenerative Medicine grants (Morshead).

Feh S (PI); Agur A, Singh K (co-I’s): PHuman: Parametric multiscale modeling and simulation of human Anatomy. NSERC Collaborative Research and Development Grant – one year extension (2015-2016) $200,000.

Sun HS (PI): Role of TPRM7 and TPRM2 Channels in Neuronal Development and Repression. NSERC Discovery Grant (2016-2021) $140,000.

Morshead CM (PI): Regional specification of astrocyte domains: from development to behavior. NSERC Discovery Grant (2016-2021) $180,000.


Resident/Fellows Honours/Awards/Positions Held

The Division continues to attract outstanding trainees and they have been the recipients of numerous accolades. Kelsey Adams and Nishanth Lakshman (Morshead, supervisor) were the recipients of the IMS entrance award ($5,000). Ashkan Azami (Morshead, supervisor) received the prestigious CIHR MSc studentship ($17,500). Parvati Dadwal (Morshead, supervisor) successfully defended her MSc entitled “Metformin promotes tissue repair and functional recovery in a model of postnatal brain injury”. She went on to do an internship at the WHO. With a focus on innovation and entrepreneurship at the University of Toronto, the first Health Innovation Hub (H2) competition was held. Ms. Stephanie Iwasa (PhD candidate, Morshead/Popovic, co-supervisors) received first for their innovative research and commercialization potential ($5,000) of electric field application for neural regeneration. Samman Huang (Sun, supervisor) was awarded the Heart and Stroke Foundation Graduate Scholarship in Science and Technology ($15,000). Ekaterina Turlova (Sun, supervisor) was awarded the Ontario Graduate Scholarship ($15,000) and the Richard Lewar Centre for Excellence Scholarship ($15,000).

Faculty Honours/Awards/Positions Held

The Division of Anatomy received a Recognition Award from the Department of Physical Therapy to acknowledge teams who have provided great learning environments, guidance, supervision and are an inspiration to physical therapy students. Dr’s Laprade, Agur and Koehler are directly involved with the teaching in the PT program.

The Division continues to celebrate the outstanding teaching achievements of our faculty. Dr. Anne Agur received the Teaching Excellence Award from the Canadian Association of Physical Medicine and Rehabilitation. Given on behalf of the participants of the 9th Canadian Comprehensive Review Course for Residents in recognition of outstanding contribution in teaching. Dr. Dee Ballyk was the recipient of the W.T. Aikins Award for Excellence in Course Program Development and Coordination in Undergraduate Medical Education. This is the Faculty’s most prestigious award for sustained commitment to, and excellence in, undergraduate teaching. Dr. Cindi Morshead was awarded the Excellence in Undergraduate Teaching in Life Science Award for sustained excellence in teaching in a Basic Science Department in the Faculty of Medicine.

The Division of Anatomy was externally reviewed in 2016. The glowing review recognized the exceptional research success and teaching excellence of the faculty. Dr. Cindi Morshead was re-appointed for her second term as Chair in the Division.

This past academic year has been both challenging and rewarding and has highlighted the spectacular team we have in the Division. With the continued support of the Faculty of Medicine and MD program, Anatomy faculty and staff have pushed together to work achieve the common goal of improved facilities to complement our teaching and research excellence.
Division of Cardiac Surgery
Christopher Caldarone, Chair

Highlights
Garnering national media attention, Mitesh Badiwala and Christopher Feindel helped lead a multi-disciplinary medical team in a complicated ‘marathon’ surgery on a 33-year old healthy and active patient whose heart was extensively damaged by endocarditis and had to be rebuilt with an operation dubbed ‘UFO surgery’ – underscoring just how rare the more than 10 hour surgical procedure was.

Gideon Cohen was a part of the team at Sunnybrook Health Sciences Centre which performed the first transeptal mitral valve replacement in Canada.

Fuad Moussa launched the Sunnybrook Hybrid Coronary Revascularization Program.

Glen Van Arsdell conducted a 2 ½ day, hands-on congenital heart disease surgery course with 3D print models which provided participants the opportunity to perform five surgical procedures on their own 3D print models, including cases of tetralogy of Fallot, complete transposition of the great arteries with intact ventricular septum, two different forms of double outlet right ventricle and hypoplastic left heart syndrome.

Recruitment
Bobby Yanagawa joined the Cardiac Surgery group as a Surgeon-Investigator at St Michael’s Hospital in July 2015.

Promotions
Osami Honjo was promoted to Associate Professor of Surgery, Cardiac Surgery, Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

Mark Peterson was promoted to Associate Professor of Surgery, Cardiac Surgery, Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

Research Grants

John Coles is collaboratively leading a research consortium organized to discover and develop new treatments for childhood dilated cardiomypathy (DCM), which is the most common form of heart muscle disease in children and, in advanced cases, can only be treated by heart transplantation. This research project was selected for funding and was among the 10 projects funded across Canada through Blueline Biosciences. The project received $210,000 in funding for Integrin-Linked Kinase (ILK) as a novel cardiac target.

As Co-Investigator Stephen Frenes was awarded $91,433 for “Screening and Management Risk factors in TAVI; an interdisciplinary Endeavor(SMARTIE)” by the Sunnybrook AFP Innovation Fund

Osami Honjo: Principal Investigator “Death after circulatory transplant project”, $150,000 from James Cummings Foundation grant.

Osami Honjo: Principal Applicant, “Development of Computational Models to Aid in the Diagnosis and Treatment of Failing Fontan Circulation”, The University of Toronto, The Faculty of Applied Science and the Faculty of Medicine EMHSeed Program, Total Funding $67,500.

Osami Honjo: Developing the Toronto Fontan Cannula as a Bridge for Failing Fontan Circulation, Grant, Principal Investigator: Total Funding , $50,000 PMCC Innovation Award

Osami Honjo: Principal Investigator Labatt Family Heart Centre Innovations Fund: Efficacy of Exracorporeal Controlled Whole Body Reperfusion with or without a Neuroprotective Agent in a Rodent Cardiac Arrest Model, Total Funding $25,000 (Canadian dollar)

Fuad Moussa: Principal Investigator and Co-Investigator for the “Black Box” study to improve OR efficiency and quality control.

Subodh Verma: Principal Investigator of the CIHR-supported grant entitled “In vivo and translational role of endothelial autophagy in the regulation of vascular disease” and Co-Principal Investigator of a HSFO awarded grant entitled “Randomized trial of mitral valve repair with leaflet resection versus leaflet preservation–Multicenter Study from the Canadian Mitral Researchers (CAMRA)”. As Principal Investigator, he also recently closed out two HSFO-funded projects that focussed on autophagy and the role of BRCA1 in endothelial function, angiogenesis and atherosclerosis.

Subodh Verma: Principal Investigator of the Boehringer Ingelheim supported trial “Effects of empagliflozin on cardiac structure, function, and circulating biomarkers in patients with type 2 diabetes” and Co-Investigator of the trial “Post-surgical enhanced monitoring for cardiac arrhythmias and atrial fibrillation (SEAR-CH-AF)” that has received funding from Bristol-Myers Squibb and Boehringer Ingelheim.

Bobby Yanagawa: Successful PSI funding for Amine Mazine with Bobby Yanagawa as PI. $20,000 funding for one year. Project title: “The Role of Inflammazome in Human Rheumatic Heart Disease”

Resident/Fellows Honours/Awards/Positions Held
Mehroz Ehsan and Laura-Eve Mantella, both mentored by Subodh
Verma, completed their MSc thesis on “Adiponectin, microparticles and endothelial function” and “Long Non-coding RNA Fingerprint Regulated by Cyclic Mechanical Stretch in Vascular Smooth Muscle Cells: Implications for Hypertension and Aortic Aneurysms” respectively. Both are now in medical school - Mehroz at the University of Oxford and Laura at Queen’s University.

At this year’s Gallicie Day and Gordon Murray Dinner, Christoph Haller, Chief Fellow in the Division of Cardiac Surgery at The Hospital for Sick Children, was recognized as this year’s recipient of the Zane Cohen Clinical Fellowship Achievement Award.

The Dr. Raymond Heimbeger Award in Surgery Research 2016 was awarded to Hiro Kawajiri, CT Fellow at Toronto General Hospital.

Jonathan W Yau, postdoctoral fellow mentored by Subodh Verma, won the 2015 American Heart Association Vivien Thomas Young Investigator Award for “A novel role of endothelial autophagy in the regulation of thrombosis in vivo.”

McMurrich Awards (Non-SSTP Oral Presentations) were awarded to Rachel Vanderlaan for her work entitled ‘Myofibroblast deposition and altered pulmonary vein reactivity contribute to disease progression in a surgical model of pulmonary vein stenosis’ and Amine Mazine for his work entitled ‘Long-term outcomes of the Ross Procedure versus mechanical aortic valve replacement: A propensity-matched cohort study’.

Mohammed K. Al-Jughiman was awarded 2nd place in the AATS Cardiothoracic Surgery Resident Poster competition for his work entitled ‘What is the Procedure Impact on Ventricular Outflow Tract Hemodynamics and Reintervention in Patients with Complex Transposition?’

Rachel Vanderlaan received the prestigious C Walton Lillehei Research Award from the American Association for Thoracic Surgery for her work entitled ‘Myofibroblast deposition and altered pulmonary vein reactivity contribute to disease progression in a surgical model of pulmonary vein stenosis’.

Faculty Honours/Awards/Positions Held

Daniel Bonneau proctored at a number of Canadian and US centres in Perceval Valve implantation

Christopher Baldaroe was endowed the Dr. Robert B. Salter Chair in Surgery for his ongoing responsibilities and commitment to world-leading research and academic activities. He continues as Surgeon-in-Chief and Chief of Perioperative Services at the Hospital for Sick Children.

George Christakis received the John Provan Surgical Educator Award for undergraduate medical education across Canada. This award recognizes outstanding contributions to undergraduate surgical education in Canada. He contains as Director of Undergraduate Surgical Education, University of Toronto.

Gideon Cohen was appointed Chairs of the DSMB Edwards Maverick Trial as well as the DMC Edwards Transcatheter Tricuspid Repair System Early Feasibility Study. He became Director of the University of Toronto’s Division of Cardiac Surgery Wetlab Program.

John Coles was also awarded the Ontario Centre of Excellence Award for 2015.

R.J. Cusimano was appointed as the Program Director for the Division of Cardiac Surgery, University of Toronto. He also won the 2016 Lynda L. Mickleborough Award for Excellence in Cardiac Surgery Teaching at TGH.

Tirone David was awarded the Lifetime Achievement Award from the American Association for Thoracic Surgery.

Lee Errett was appointed the first Professor of Global Surgery at the University of Toronto.

Stephen Fremes received the 2016 Bernard Goldman Award for Excellence in Cardiac Surgery Teaching at Sunnybrook as well as the Charles H. Tator Surgeon Scientist Mentoring Award, University of Toronto. He was reappointed Bernard S Goldman Chair in Cardiac Surgery.

Edward Hickey shares his expertise around the world as an invited speaker at many venues. This year he drew parallels between the National Aeronautics and Space Administration “threat and error” model and pediatric cardiac surgery.

Osami Honjo received the 2016 William G. Williams Award for Excellence in Cardiac Surgery Teaching at the Hospital for Sick Children.

David Latter was the recipient of the 2016 James Yao Award Award for Excellence in Cardiac Surgery Teaching at St. Michael’s Hospital.

Ren-Ke Li received a 3 year grant from the Ontario Research Fund – Research Excellence Program, for his submission “Pre-clinical Development of a Novel Umbilical Cord Perivascular Cell-based Therapy to Prevent Heart Failure”. Ren-Ke was also elected as Fellow of the International Academy of Cardiovascular Sciences.

Mark Peterson: was accepted as a new member of the American Association of Thoracic Surgery. He was also appointed to the Executive Committee of the Canadian Thoracic Aortic Collaborative as well as the Critically Illness Steering Committee at St. Michael’s Hospital.

Subodh Verma has been selected as a member of the 2015 cohort of the College of New Scholars, Artists and Scientists of the Royal Society of Canada. Subodh is an internationally renowned cardiac surgeon-scientist and the Canada research Chair in Atherosclerosis.

Subodh Verma served on the panel of the 2016 Canadian Cardiovascular Society Guidelines for the management of dyslipidemia for the prevention of cardiovascular disease in the adult and sits on the panels for the upcoming updates of the Canadian Cardiovascular Society Guidelines for Atrial Fibrillation and Canadian Diabetes Association Clinical Practice Guidelines.

Leadership Changes/Progressions

David Latter was named as Director of MD Admissions and Student Finances for the Faculty of Medicine. David Latter stepped down as Chair of the Fellowship Educational Advisory Committee, which he served for 8 years.

Other highlights

January 2016 the members of the Division of Cardiac Surgery co-hosted and presented at the 4th annual Jahres Symposium 2016 at the Li Ka Shing Institute.

Bobby Yanagawa started the St Michael’s Hospital Cardiovascular
Surgical Tissue bank including but not limited to blood, valve, bypass conduit, myocardium and aortic tissue collection for translational studies.

Mark Peterson is a founding member of the Toronto Aortic Collaborative and the Canadian Thoracic Aortic Collaborative and sits on the Executive of both groups.

Mark Peterson and Subodh Verma are currently conducting a multicenter randomized clinical trial in aortic surgery called the ACE Study. 115 patients are currently being recruited and randomized to either axillary artery or innominate artery cannulation for cerebral protection during aortic arch surgery.

Visiting Professors:

Niv Ad, Chief of Cardiac Surgery and Director of Cardiac Surgery Research at Inova Heart and Vascular Institute delivered the 2016 Dr. Raymond Heimbecker Visiting Lecture in Cardiac Surgery.


John W Eikelboom, MB BS, MSc of McMaster University spoke on the topic “NOAC antidotes come of age” at the St Michael’s Hospital Joint Cardiac Surgery and Cardiology Rounds on January 25, 2016.

John A. Elefteriades, MD William W.L. Glenn Professor of Cardiothoracic Surgery and Director of the Aortic Institute at Yale–New Haven delivered the Wilfred Bigelow Lecture entitled “Thoracic Aortic Aneurysms: Reading the Enemy’s Playbook” on October 2nd, 2015.

Ross D Feldman, MD of the Memorial University of Newfoundland spoke on the topic “Heart Disease in Women: You’ve come a long way...?” at the St Michael’s Hospital Joint Cardiac Surgery, Vascular Surgery and Cardiology Rounds on September 28, 2015.

Ishwarlal Jialal, MD, PhD of UC Davis Medical Center spoke on the topic “The Role of Inflammation in Metabolic Syndrome” at the St Michael’s Hospital Joint Cardiac Surgery and Cardiology Rounds on May 16, 2016.

Daniel Paquette, MD of the Fédération des médecins omnipraticiens du Québec (FMOQ) spoke on the topic “Aiming for a higher standard in CME: Lessons from FMOQ” at the St Michael’s Hospital Cardiac Surgery Rounds on November 3, 2015.

Douglas P Zipes, MD of the Indiana University School of Medicine delivered the 9th Annual Landmark Lecture “The birth and maturation of cardiac electrophysiology as a specialty” on October 5, 2015 at the Li Ka Shing Knowledge Institute of St. Michael’s Hospital.
The University of Toronto Division of General Surgery has a long-standing tradition of scholarly excellence and community service, in addition to expertise in clinical care. In the 2015-2016 academic year, our attending surgeons and trainees made significant contributions to the academic mission of the Department of Surgery, and had impact on the practice of surgery locally and globally.

**Scholarly Activity and Achievement**

**Education.** In October 2015, our GS Residency Program underwent a mandated external review by the Royal College of Physicians and Surgeons. Thanks to an extraordinarily committed and coordinated effort by our education leaders, our faculty and trainees, we were awarded a status of Full Accreditation. The reviewers specifically noted the following characteristics of our program:

**Strengths of the University of Toronto GS Training Program (Royal College Surveyors, December 2015)**

1. dedicated, respected Program Director (Dr. Najma Ahmed) who has developed an effective and collegial learning environment for residents and staff
2. departmental and divisional chairs who are strongly supportive of the residency program
3. goals and objectives that are functional, comprehensive and easily applied
4. collegial and dedicated teaching faculty with wide varieties of expertise
5. abundant clinical and research opportunities for trainees

**Faculty Recipients of Major Department of Surgery Teaching Awards**

*Sandra de Montbrun*, St. Michael's Hospital – Surgical Skills Lab Teaching Award
Dr. de Montbrun has developed and implemented an Objective Structured Assessment of Technical Skills (OSATS) exam that has been adopted to examine colorectal trainees applying for American Board of Surgeons certification. The OSATS exam will in future be widely rolled out in numerous specialties, and will facilitate evaluation of competence by design.

*Georges Azzie*, Hospital for Sick Children – Tovee Award for Postgraduate Teaching
Dr. Azzie is internationally recognized for his work on telementoring to develop laparoscopic skills. His research laboratory has included operating theatres and colleagues in Botswana, where he spends up to 4 months per year. Dr. Azzie is a thought leader in international surgery, especially with regard to education and ethics.

*Teodor Grantcharov*, St. Michael’s Hospital – Charles Tator Mentorship Award
Dr. Grantcharov holds a CIHR Chair in Technology & Innovation, and focuses his scholarly activity on optimization and evaluation of technical skill. He has provided superb mentorship to a generation of Surgical Scientist Trainees, as well as fellows and junior colleagues.

*Najma Ahmed*, St. Michael's Hospital – D.R. Wilson PGME Award, Royal College of Physicians and Surgeons of Canada
Dr. Ahmed was recognized for excellence and impact in the sphere of postgraduate education, in particular with respect to her seminal work on work hours restrictions and their impact on competence.

**Research and Innovation.** The Division of General Surgery continues to enroll more residents in the Surgical Scientist Training Program than any other division in the Department of Surgery, reflecting not only our numbers, but also the dedication, commitment and passion of our attending surgeons who provide supervision to these trainees. Our SSTP trainees routinely win awards at national and international meetings, but some of the most coveted prizes are for research presented at our own University of Toronto Department of Surgery annual Gallie Day.

**Resident Recipients of Department of Surgery Gallie Bateman Awards**

1st Prize, Oral Presentation: *Marisa Louridas* - Practice does not always make perfect: Need for selection curricula in modern surgical training. Sup: T. Grantcharov


1st Prize, Poster Presentation: *Peter Szasz* - Setting performance standards for technical and non-technical competence in General Surgery. Sup: T. Grantcharov

2nd Prize, Poster Presentation: *James Jung* - Approach to asymptomatic paraesophageal hernia: Elective laparoscopic hernia repair or watchful waiting? Sup: T. Grantcharov

3rd Prize, Poster Presentation: *Stephanie Mason* - Persistent morbidity requiring urgent readmission after major burn injury: A population-based analysis. Sup: M. Jeschke, A. Nathens

Our faculty members continue to garner awards, peer-reviewed grants and invited professorships all over the world. This year, a young General Surgery faculty member won the Bernard Langer Surgeon Scientist Award, in recognition of his impactful work as an SSTP trainee, and since joining the faculty here at the University of Toronto.

*Anand Govindarajan* is a surgical oncologist at Mount Sinai Hospital, who conducts outcomes research in collaboration with his scientific mentor, Nancy Baxter.
The list of peer-reviewed publications by our more than 100 faculty members is too long to present in its entirety.

**Selected Peer-Reviewed Publications by General Surgery Faculty HSC**

**Mutabdzic D, Azzie G.**  
Uncovering the Hidden Curriculum of Global Health Electives.  

Congenital diaphragmatic hernia: Observed/expected lung-to-head ratio as a predictor of long-term morbidity.  

**Feinberg A, Hall NJ, Williams GM, Schultz KA, Miniati D, Hill DA, Dehner LP, Messinger YH, Langer JC.**  
Can congenital pulmonary airway malformation be distinguished from Type I pleuropulmonary blastoma based on clinical and radiological features?  

Endoplasmic reticulum stress is involved in the colonic epithelium damage induced by maternal separation.  

**Oliveira C, de Silva NT, Stanojevic S, Avitzur Y, Bayoumi AM, Ungar WJ, Hoch JS, Wales PW.**  
Change of Outcomes in Pediatric Intestinal Failure: Use of Time-Series Analysis to Assess the Evolution of an Intestinal Rehabilitation Program.  

**Zani A, Cobellis G, Wolinska J, Chiu PP, Pierro A.**  
Preservation of native esophagus in infants with pure esophageal atresia has good long-term outcomes despite significant postoperative morbidity.  

Severity of inflammation as a risk factor for ileo-anal anastomotic leak after a pouch procedure in ulcerative colitis.  

**Scanelo AM, Moshonov H, Escallon J.**  
A prospective pilot study of analysis of surgical margins of breast cancers using high-resolution sonography.  

P38K/akt/mTOR inhibition in combination with doxorubicin is an effective therapy for leiomysarcoma.  

**Govindarajan A, Urbach DR, Baxter NN.**  
Outcomes of Procedures Performed by Attending Surgeons after Night Work.  
Cordeiro E, Dixon M, Coburn N, Holloway CM.

Palter VN, Beyfuss KA, Jokhio AR, Ryzyinski A, Ashamalla S.
Peer coaching to teach faculty surgeons an advanced laparoscopic skill: A randomized controlled trial.

Sathya C, Alali AS, Wales PW, Scales DC, Karanicolas PJ, Burd RS, Nance ML, Xiong W, Nathens AB.
Mortality Among Injured Children Treated at Different Trauma Center Types.
JAMA Surg. 2015 Sep;150(9):874-81.

A comparison of live tissue training and high-fidelity patient simulator: A pilot study in battlefield trauma training.

SJH
Lateral approach in laparoscopic distal pancreatectomy is safe and potentially beneficial compared to the traditional medial approach.

SMH
Acuna SA, Fernandes KA, Daly C, Hicks LK, Sutrathar R, Kim SJ, Baxter NN.
Cancer Mortality Among Recipients of Solid-Organ Transplantation in Ontario, Canada.

de Montbrun S, Satterthwaite L, Grantcharov TP.
Setting pass scores for assessment of technical performance by surgical trainees.

Rezende-Neto JR, Angurita FA, Rizoli SB, Rotstein OD.
Modified triple-layer peritoneal-aponeurotic transposition: A new strategy to close the "open abdomen".

Lost information during the handover of critically injured trauma patients: a mixed-methods study.

Marshall JC, Kwong W, Kommaraju K, Burns KE.
Determinants of Citation Impact in Large Clinical Trials in Critical Care: The Role of Investigator-Led Clinical Trial Groups.

Tawadros PS, Powers KA, Ailenberg M, Birch SE, Marshall JC, Szaszi K, Kapus A, Rotstein OD.
Oxidative Stress Increases Surface Toll-Like Receptor 4 Expression in Murine Macrophages Via Ceramide Generation.

Brackstone M, Latoisinsky S, Saetller E, George R.
CJS debate: Is mammography useful in average-risk screening for breast cancer?

Simpson JS.
Reflections: Rethinking the Meaning of Competence.

Scheer AS, Zih FS, Maki E, Koch CA, McCready DR.
Post-mastectomy Radiation: Should Subtype Factor into the Decision?

Dedy NJ, Feco AB, Szasz P, Bonrath EM, Grantcharov TP.

TEGH/Michael GARRON
Preoperative predictors of adherence to multidisciplinary follow-up care postbariatric surgery.

UHN
Lemire M, Zaidi SH, Zanke BW, Gallinger S, Hudson TJ, Cleary SP.
The effect of 5-fluorouracil/leucovorin chemotherapy on CpG methylation, or the confounding role of leukocyte heterogeneity: An illustration.

Germline BRCA Mutations in a Large Clinic-Based Cohort of Patients With Pancreatic Adenocarcinoma.

MacFarland SA, Ma XZ, Chen L, Khattar R, Cherepanov V, Selzner M, Feld JJ, Selzner N, McGilvray ID.
Lipopolysaccharide and Tumor Necrosis Factor Alpha Inhibit Interferon Signaling in Hepatocytes by Increasing Ubiquitin-Like Protease 18 (USP18) Expression.

Zilbert NR, Murnaghan ML, Gallinger S, Regehr G, Moulton CA.
Taking a Chance or Playing It Safe: Reframing Risk Assessment Within the Surgeon’s Comfort Zone.

Benefit of Treating Hepatocellular Carcinoma Recurrence after Liver Transplantation and Analysis of Prognostic Factors for Survival in a Large Euro-American Series.

Wei AC, Coburn NG, Devitt KS, Serrano PE, Moulton CA, Cleary SP, Derry NJ, Feco AB, Szasz P, Bonrath EM, Grantcharov TP.
Regional variation in the use of surgery in Ontario.

Scheer AS, Zih FS, Maki E, Koch CA, McCready DR.
Post-mastectomy Radiation: Should Subtype Factor into the Decision?

Tang M, Dao J, Gu H, Khatri I, Zhao J, Cartri MS.
Toll-like Receptor 2 Activation Promotes Tumor Dendritic Cell Dysfunction by Regulating IL-6 and IL-10 Receptor Signaling.

Directed differentiation of cholangiocytes from human pluripotent stem cells.

Sapisochin G, Goldaracena N, Laurence JM, Dib M, Barbas A, Ghanekar A, Cleary SP, Lilly L, Cartri MS, Marquez M, Selzner M, Renner E, Selzner N, McGilvray ID, Greig PD, Grant DR.
The extended Toronto criteria for liver transplantation in patients with hepatocellular carcinoma: A prospective validation study.

Spetzler VN, Goldaracena N, Echiverri J, Kaths JM, Louis KS, Adeyi OA, Yip PM, Grant DR, Selzner N, Selzner M.
Subnormothermic ex vivo liver perfusion is a safe alternative to cold static storage for preserving standard criteria grafts.

Gunaratne K, Cleghorn MC, Jackson TD.

Byrne J, Saleh F, Ambrosini L, Quereshy F, Jackson TD, Okrainec A.
Laparoscopic versus open surgical management of adhesive small bowel obstruction: a comparison of outcomes.
Surg Endosc. 2015 Sep;29(9):2525-32.

Diamant A, Cleghorn MC, Milner J, Sockalingam S, Okrainec A, Jackson TD, Quereshy FA.
Patient and operational factors affecting wait times in a bariatric surgery program in Toronto: a retrospective cohort study.

WCH
Roberts A, Nofech-Mozes S, Youngson B, McCready DR, Al-Assi M, Ramkumar S, Gil T.
The Importance of Applying ACOSOG Z0011 Criteria in the Axillary Management of Invasive Lobular Carcinoma: A Multi-institutional Cohort Study.

Facility Development
New Faculty Members
Savtaj Brar, Surgical Oncology, Mount Sinai Hospital
Usmaan Hameed, Surgical Oncology, North York General Hospital
Gonzalo Sapisochin, HPB Surgical Oncology & Transplant, UHN-TGH
Augusto Zani, HSC, Paediatric General Surgery

Promotions
Paul Karanicolas, Sunnybrook, to the rank of Associate Professor

Successful Continuing Appointment Reviews

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<thead>
<tr>
<th>Faculty Member</th>
<th>Hospital</th>
<th>Mentor(s)</th>
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<tbody>
<tr>
<td>Shady Ashamalla</td>
<td>SB</td>
<td>Avery Nathens, Paul Karanicolas, Andy Smith</td>
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<tr>
<td>Karen Devon</td>
<td>WCH</td>
<td>Lorne Rotstein, Martin McKneally</td>
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<tr>
<td>Anand Govindarajan</td>
<td>MSH</td>
<td>Andrea McCart, Nancy Baxter</td>
</tr>
<tr>
<td>Paul Karanicolas*</td>
<td>SB</td>
<td>Avery Nathens, Gordon Guyatt</td>
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<tr>
<td>Barto Nascimento</td>
<td>SB</td>
<td>Homer Tien, Avery Nathens</td>
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<td>Jaoa Rezendes-Neto</td>
<td>SMH</td>
<td>Sandro Rizzoli, Wolfgang Kuebler</td>
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<tr>
<td>Fayez Quereshy</td>
<td>UHN</td>
<td>Allan O’Krainec</td>
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New Adjunct Clinical Professor Appointments

<table>
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<tr>
<th>Faculty Member</th>
<th>Practice Location</th>
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<tbody>
<tr>
<td>Robert Bendavid</td>
<td>Shouldice Clinic, Toronto</td>
</tr>
<tr>
<td>Alexander Iskander</td>
<td>Humber River</td>
</tr>
<tr>
<td>Laura Musselman</td>
<td>Trillium Health Partners, Mississauga</td>
</tr>
<tr>
<td>Bharat Sharma</td>
<td>Royal Victoria, Barrie</td>
</tr>
<tr>
<td>Rupert Abdalian</td>
<td>North York General</td>
</tr>
<tr>
<td>Shima Kassirian</td>
<td>Southlake</td>
</tr>
<tr>
<td>Claude Burul</td>
<td>Shouldice Clinic, Toronto</td>
</tr>
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Community Service
In addition to serving our local, regional and national communities by educating strong clinical surgeons who provide excellent acute and subspecialty general surgical care across Canada, our faculty members and trainees impact our community in a wide variety of ways. Aided by residents David Berger Richardson and Hala Muadi, Zane Cohen led our division’s commitment to host a Syrian refugee family, an effort to which all faculty and trainee members have contributed in some manner. Residents Josh Ng-Klimstra, Mavee Trudeau and Anna Dare led our Education Symposium on Ethical Dilemmas in Global Surgery at the Annual Assembly in May 2016, hosting the Tovee lecturer John Tarpley of Vanderbilt University. Many of our GS faculty conduct research that directly informs health care policy. Particularly noteworthy contributions were made by Avery Nathens in the realm of trauma responsiveness, Erin Kennedy in optimization of the management of primary rectal cancer, Carol Ann Moulton in promoting implementation of coaching into continuing education for general surgeons, Shady Ashamalla in training for safe implementation of transanal TME for rectal cancer, and the entire UHN transplantation team (Paul Greig, David Grant, Mark Catrall, Ian McGilvray, Marcus Selzner, Anand Ghanekar, Gonzalo Sapisochin) for their seminal and ground-breaking work on live donor liver transplantation.
The 2015-16 year marked another year of excellence in academic, research, clinical and teaching domains in our Division. Our 62 Faculty and residents performed over 6,000 cases and published 350 papers. Our Division continues to receive some of the most prestigious awards in our discipline, and our residents received scholarships and awards celebrating their achievements. The Dan Family’s generosity is instrumental to our success and we are grateful for their support.

**Promotions.** Taufik Valiante was promoted to Scientist at the Krembil Research Institute effective July 1, 2015.

**New Chairs.** Michael Tymiinski was appointed the Harold and Esther Halpern Chair in Neurosurgical Stroke Research and Fred Gentili was appointed as the Crean Hotson Chair in Skull Base Surgery, representing the 16th and 17th endowed Chairs in our Division respectively.

**Research Grants.** Our neurosurgeons and Division-affiliated neuroscientists held over $38.5M in total grant funding, including 19 newly awarded research grants.

**Resident/Fellows Honours/Awards/Positions Held**
- Chris Ahuja (PGY4), Newtown Cho (PGY3) and Allan Martin (PGY4) received CIHR Fellowship Awards.
- Nir Lipsman (PGY6) received the 2016 Shafie S. Fazel Outstanding Resident Surgeon and Investigator Award. Allan Martin (PGY4) received a 2015 Postgraduate Research Award.
- Jamie Purzner (PGY4) received a $50,000 NREF and B*CURED Research Grant

**Faculty Honours/Awards/Positions Held**
- **James Rutka** was elected as an Officer of the Order of Canada.
- Charles Tator and Albert Aguayo (Neurology, McGill University) were co-awarded the Wings for Life 2016 Lifetime Achievement Award for Spinal Cord Injury.
- **Michael Taylor** was awarded the Department of Surgery’s Lister Prize.
- **James Rutka** was awarded the 2015 Margoese National Brain Disorders Prize.
- **Andres Lozano** was the only neurosurgeon in the world to be named to the Thompson Reuters select list of highly cited researchers for 2015 in the category of Neuroscience and Behavior (http://highlycited.com/).
- **Michael Fehlings** was ranked #5 in the world for the period of 2010-2012 for number of papers published in all areas of neuroscience by Elsevier and Thompson Reuters in their assessment.
- **Andres Lozano** was elected to the European Academy of Sciences.

**Visiting Professors**
- Shekar Kurpad, Medical College of Wisconsin, 2015 Annual E. Harry Botterell Visiting Lectureship Nov 11, 2015
- Jan Schwab, Ohio State University, 14th Annual Tator- Turnbull Symposium, Nov 13, 2015
- **Henry Marsh,** St. George’s Hospital, London, UK, 1st Labatt Chair Visiting Professor in International Neurosurgical Education, St. Michael’s Hospital, Feb 19, 2016.
- **Patrick J. Guilleaume,** University of Toronto, 2nd Annual Alan & Susan Hudson Lectureship, Apr 15, 2016.
- **Rokuya Tanikawa,** Asahikawa Medical Center 52nd Lougheed Microsurgical Course & 2016 City-Wide Rounds, Toronto Western Hospital, Apr 25-29, 2016
- **Jörg-Christian Tonn,** University of Munich, 41st William S. Keith Visiting Professor, June 6, 2016.
- **David Fortin,** University of Sherbrooke, Visiting Professorship at St. Michael’s Hospital, June 7, 2016.
- **Daniel Riew,** Columbia Medical Center, SpineFEST 2016, June 13, 2016.

**Division Firsts**
- On October 3, 2015 our Division held a Chairman’s welcome event for residents. This year’s activities included a visit to the shooting range and a motorcycle/ATV tour.
- We launched a new monthly e-series “Alumni Focus—Where Are They Now” in December 2015.
- On February 12-14, 2016, Division of Neurosurgery Faculty convened for a strategic planning retreat at The Crane resort in Barbados.

**Leadership Changes/Progressions.**
- James Rutka was re-appointed as the R.S. McLaughlin Professor and Chair of the Department of Surgery for a second five-year term.
- Andres Lozano was re-appointed as the Dan Family Chair in Neurosurgery for a second five-year term.
- Todd Mainprize was appointed the Head of the Division of Neurosurgery at Sunnybrook Hospital.

**Royal College Fellowships.** The following PGY6 residents successfully passed their FR.CSC fellowship examinations: David Cadotte, Brian Drake, George Ibrahim, Anthony Lau and Nir Lipsman.

We have had a great year of achievements. Our 5 new residents and 25 clinical fellows from around the world bring tremendous talent to our Division. Thank you to all of our Faculty, fellows and residents for their remarkable contributions to our Division, ensuring that the Toronto Neurosurgery program remains a distinguished and world-leading program.
The highlight of the 2015/2016 academic year was the development of the Division of Orthopaedic Surgery’s 2016-2021 Strategic Plan entitled “Global Leadership Through Innovation and Collaboration”. This is a bold and ambitious document that has set key directional priorities for us for the next 5 years and beyond. In this plan we highlight our initiatives under 5 key themes: Education, Research, Quality and Best Practices, Faculty Development and Leadership, and finally, Integration, Advocacy and Outreach.

Under the leadership of Markku Nousiainen, the Education group highlighted priorities such as improving our presence and profile in undergraduate education, further refinement of our highly successful and world-renowned Competency Based Curriculum, increasing the role of fellows in teaching, and improving mentorship and the learning experience for students at all levels of training.

The Research group, led by Albert Yee, highlighted as important initiatives improving support of our surgeons-scientists and early career investigators, early identification of promising academic surgeons in our training program, promotion of research productivity of faculty at all career levels, fostering partnerships and collaborations across the University and beyond, and strategic recruitment of scientific personnel within the Division to support key research themes.

Hans Kreder led the Quality and Best Practice group which identified as priorities the standardization of continuous quality improvement processes and activities, improvement of internal and external communication across clinical sites, development of standardized clinical care processes and pathways with University of Toronto Orthopaedic branding, and promotion of quality as an academic career pathway.

Goals of the Faculty Development and Leadership group, under the guidance of Terry Axelrod, include the establishment of a University Division wide faculty transition plan, establishment of a 100% compliance rate with the Departmental open search process for new faculty, implementation of a mentorship and coaching program for early and mid-career faculty, improved information and support of faculty promotion, enhancement of leadership and teaching skills within the Division and the development of educational meetings for the academic community and trainees.

David Backstein led the Integration, Advocacy and Outreach group, which highlighted as priorities the advocacy for funding for our specialty based on solid costing evidence, ensuring our prominent role in the Toronto Central LHIN is maintained, expansion of CME offerings and enhanced engagement with alumni, primary care and allied health personnel, and finally promotion of our brand in the development of orthopaedic interventions in third world countries.

As a key component of this plan, we have rebranded our Division with our new logo and motto “Leadership. Innovation. Impact.” This succinctly summarizes our strengths and ambitions that will allow us to bring our strategic plan to fruition.

Our University Wide Rounds for the academic year were given by Rajiv Gandhi and Michael MacKechnie (Toronto), James Nunley (Durham NC), Arnd Steinbrück and Bernhard Speigler (German Foot & Ankle Traveling Fellows), Gregory Della Rocca (Missouri) and John Wedge (Toronto). We had the fifth Stefanski lecture for teaching better communication to orthopaedists. Marc Swiontkowski was our lecturer. He is well known in the Orthopaedic community and has been a mentor of many of our faculty. He has also held several leadership positions in the AOA, AAOS and the OTA, to name a few. He is currently the CEO of TRIA Orthopaedic Center in Bloomington, MN, and Professor at the University of Minnesota. The title of his talk was “The use of patient reported outcomes information to improve shared decision making”. At our annual research day held in November, Nadir Jomha provided an inspirational lecture on his academic journey from the clinic to bench and back again. His perspective on the cryopreservation of articular cartilage, tissue engineering/regeneration, and bone replacement approaches to important clinical orthopaedic issues resonated with residents and faculty alike. The Robin Sullivan Award for best resident research project went to Jasjit Lochab and the best paper by a non-resident award went to Tarik Attia. This year, we also inaugurated our annual Division of Orthopaedics Junior Faculty Research Award. We received several excellent nominations by faculty members – congratulations again to Dr. Jas Chahal as the inaugural recipient of this award. The future of academic orthopaedic surgery at the University of Toronto is dependent on the excellent research being conducted by many of our promising junior faculty members in the program.

Our Graduation Day Visiting Professor was Tom Minas. He gave a fabulous and very insightful “Autologous Chondrocyte Implantation in the Knee: A Translational Model –from basic science to clinical follow up” 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, went to Jesse Wolfstadt, and the Meisami award for most compassionate resident, as selected by the faculty, went to Christopher Kim. Lawson Awards went to: Evan Watts (PGY 4) Zachary Tan and Michael Olsen (PGY 3) Justin Chang (PGY 2) and Zachary Lim (PGY 1). The R.I. Harris awards for the best research presentations at the Graduation Day went to Adam Katchky and Michael Zywiciel. The James Waddell award for the best PGY 4 resident was awarded to Andrea Chan. Martin Gargan received the Divisional Award for Best Teacher as selected by the residents.

We welcomed 2 new faculty members this academic year – Sarah Ward (St. Michael’s) and Sebastian Tomescu (Sunnybrook and Holland Centre). We are looking forward to great contributions from Sarah and Sebastian over the next several years.

We had 2 faculty members who were promoted as of July 1, 2016. Daniel Whelan was promoted to the level of Associate Professor and Darrell Ogilvie-Harris to the level of Full Professor. This is the ultimate academic achievement at the University and is a measure of
the outstanding contributions that they have made to orthopaedics. Congratulations to both of them.

There were several awards bestowed upon our faculty members and residents. Tim Daniels won the Roger Mann Award at the AOFAS for a record 4th time! Danny Whelan was awarded the prestigious 2016 ESSKA-AOSSM DJO Travelling Fellowship. David Wasserstein and Ujash Sheth were awarded the Sports Health Sisk Award. Ujash was also awarded the Alexandra Kirkley Award at the Canadian Orthopaedic Residents Association Meeting and the Herodicus Award for the best residents’ presentation at the AOSSM meeting. Kim Tsoi was selected as the Best Research Presentation at Gallie Day. Dennis Dipasquale won the Bruce Tovey Undergraduate Teaching Award for the Department of Surgery. Richard Holtby was selected as recipient of the Marvin Tile Award at Sunnybrook. Cari Whyne was awarded a CIHR POP Phase 1 grant. Lucas Munaghan and Tim Dwyer received Education Development Fund Grants. Kim Tsoi and Tim Dwyer both successfully completed their PhD theses. The Canadian Orthopaedic Society awarded the 1st place 2016 Founders Medal to Sam Park and the 2nd place Founders Medal to Corey Sermer. These are the 2 highest awards in Orthopaedic research in our country!

At our recent 7th Annual Fellowship Day, the best fellow teachers within the division, selected by the residents, were Kevin Koo, Matt Tsuji and Jim Turner. The best research presentations of the day were awarded to So Kato, Kenny Gundle and Prakash Nayak. The arthroplasty group at St. Michael’s Hospital, including Dr. Jim Waddell, Dr. Earl Bogoch, Dr. Emil Schemitsch and Dr. Sarah Ward was selected as the best educational fellowship program. We anticipate that all of our fellows take their great experiences in Toronto with them in their upcoming career endeavors.

All of our trainees were successful on their recent FRCSC exams. Congratulations to Tom Zochowski, Adam Katchky, Michael MacKechnie, Mark Miller, Christopher Kim, Alireza Naderipour, Jesse Wolfstadt and Michael Zywiel. 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.

We welcomed a fresh group of trainees to our program July 1st. These highly accomplished individuals are the future of our specialty. A warm welcome to Aouod Agenor, Amit Anand, Hasaan Chaudhry, Jonathan Doyon, Matt Florczynski, Scott Kim, Jason Lam, Jhase Sniderman and James Wu. We all look forward to working with you over the next several years.

Finally, we had several significant departures from our Division this year. Dr. Jim Wright left the Hospital for Sick Children for Oxford, UK. Dr. Emil Schemitsch departed St. Michael’s Hospital to take up the position as Chair of Surgery at Western University in London. Dr. John Cameron, Dr. Richard Holtby and our former Chair of Surgery Dr. John Wedge retired from clinical practice. As a Division, we offer our enormous thanks to all of your leadership and guidance over the past 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!
Recruitment:

Heather Baltzer was recruited as an Assistant Professor in the Division of Plastic & Reconstructive Surgery, University of Toronto and began her staff appointment at the Toronto Western Hospital, Hand Program with a cross appointment to the Division of Orthopaedics, UHN, in November 2015.

Ron Somogyi was recruited as an Assistant Professor in the Division of Plastic & Reconstructive Surgery, University of Toronto and began his staff appointment at Women's College Hospital with a cross appointment to the North York General Hospital in September 2015.

Roberto Tutino is a Lecturer in the Department of Surgery, Division of Plastic and Reconstructive Surgery at the University of Toronto. He is currently an associate at Trillium Health Partners where he is spearheading the Breast Reconstructive Surgery Program. Dr Tutino's appointment began in November 2015.

Promotions:

Jamil Ahmad (Mississauga Aesthetic Clinic) was promoted to Assistant Professor

Faculty and Resident Grants

Katie Armstrong: Principle Investigator, “The Effect of Mobile App Home Monitoring on the Number of In-Person Visits Following Ambulatory Surgery: cost-effectiveness analysis alongside a randomized controlled trial” Canadian Institute of Health Research Institute Community Support Travel Grant. $1500: 2015.


Oleh Antonyshyn and C. Whyne: Industry-Academic Collaborative Project – Ontario Centres of Excellence ICIGT-OCE PROJECT 23253 Custom Craniofacial Implant System. Company Partner: Calvera 01/04/15 to 31/03/17. $100k (total budget)

Waler K. Collaborator(s): Antonyshyn O, Hetmanchuk V. Capacity Building within Ukraine’s Ministry of Defense Medical System. Global Peace and Security Fund, Foreign Affairs, Trade and Development Canada, Global Peace and Security Fund, Foreign Affairs, Trade and D. $ 1,200,000.00 CAD.

Greg Borschel: Principal Investigator. FACE-Q Kids. Plastic Surgery Educational Foundation. n/a. Collaborator(s): Davidge, Kristen M; Wong, Karen; Zunker, Ronald. 2015 May

Greg Borschel: Award to Student. School of Graduate Studies Conference Grant. School of Graduate Studies – University of Toronto. Winter/Spring 2015 School of Graduate Studies Conference. Gra. n/a. 680 CAD. Kasra Tajdaran. 2015 Mar - 2015 Sep

Grober E, Brown MH, Semple J, Jarvi, K, Bagli D: Development and
Joseph Catapano: 2016 Plastic Surgery Foundation (PSF) Combined Pilot Research Grant (ID# 415663)
Leila Kasrai, Shahta Yekta, Asrat Mengiste, AMREF Kenya: Minimizing Burns with Cook Stove Barriers: A pilot project to test the feasibility of using resource-appropriate, locally manufactured barriers around cook stoves to prevent burn injuries in an urban slum in Kenya. United Nations Foundation (Grant Number: UNF-14-660). ($31,000 2015 - 2016)


Greg Borschel: Principal Investigator. Enhancement of nerve regeneration with controlled release of neurotrophic factors. Canadian Institutes of Health Research / CIHR, operating grant, CIHR/NSERC Collaborative Health Research. Collaborators:


Robert Cartotto: with co-investigator Dr. Dave Greenhalgh (University of California- Davis) received a 2 million USD grant from the US Department of Defense for the study “Acute Burn Resuscitation Prospective multicenter observational Trial” (ABRupt).

Robert Cartotto (Co-Principal Investigator): David Greenhalgh, U California at Davis (Principal Investigator: Surviving Sepsis after Burns Campaign. US Department of Defense. W81XWH-09-02-01420,000 USD. (2014 – present)

Robert Cartotto (Co-Principal Investigator): David Greenhalgh, U California at Davis (Principal Investigator: Acute Burn Resuscitation Prospective Multicentre observational Trial (ABRupt)) United States Army, Department of Defense. 2015 Military Burn Research Program (MBRP). MB150076. PI: Greenhalgh, David. Collaborator(s): D.G. Greenhalgh MD FACS. Total Amount: 2,000,000 USD. June 2016–October 2020


Karen Cross, (Elisa F Greco, Co-Investigator) “Development of the Multispectral MOBILE tsSue Assessment (MIMOSA) device”. 3 years; 386,072 2016


Joel Fish: and PhD candidate Jennifer Zuccaro for a 2 year PSI grant worth $169,500 for a project entitled “A randomized controlled trial investigating the use of ablative fractional carbon dioxide laser therapy to improve pediatric burn scars”.


Marc Jeschke 5-year CIHR. Operating Grant - $170,388 per year. 2012 Oct - 2017 Sep

Marc Jeschke AFP Grant Development of skin from autologous Stem cells.


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.


Karen Wong An International Study to Develop a Patient-Reported Outcome Instrument for Conditions Associated with a Facial Difference; FACE-Q Kids.” 2 years; $378,427 2016

Karen Wong (PI). Collaborator(s): A. Klassen, C. Forrest, Co-Principal Investigator , A. Pusic. An international study to develop a patient reported outcome instrument for cleft lip and/or palate patients: The CLEFT-Q, CIHR, open Operating Grant. 602,389 CAD. 2013 Jan - 2018 Dec


**Katie Armstrong**: 2016 Mentor Best Clinical Paper Award, Resident Research Day, the Division of Plastic & Reconstructive Surgery, University of Toronto, Toronto, Ontario.

**Toni Zhong** (PI), Dr. N. Baxter Dr. S. Hofer Dr. J. Jones, Dr. S. Macadam Dr. K. Metcalfe Mr. T. Panzarella, Dr. G. Porter Dr. A. Pusic Dr. A. Roberts, Dr. J. Semple Dr. C. Temple-Oberle Dr. F. Webster, Dr. A. Wei (Collaborators). Development of a National Quality Improvement Program in Postmastectomy Breast Reconstruction to Optimize Patient-Centred Experience. Canadian Institutes of Health Research (CIHR), Foundation Scheme Live Pilot. Total Amount: $860,006 CAD 2015 Jul – 2016 Jun: $172,000 CAD (prorated).

**Toni Zhong** (PI), Dr. Nancy Baxter, Dr. Brett Beber, Dr. Terry Cheng, Dr. Jeffrey Hoch, Dr. Stefan Hofer, Dr. Wanrudee Isaranuwatchai, Dr. Jennifer Jones, Dr. Kelly Metcalfe, Dr. Anne O’Neill, Mr. Tony Panzarella, Dr. Jennica Platt. Pre-consultation Educational Group Intervention to Improve Shared Decision Making for Postmastectomy Breast Reconstruction. Canadian Breast Cancer Foundation (CBCF) – Ontario Region. Total Amount: $352,785 CAD. 2015 Jul – 2016 Jun: $184,807 (prorated).

**Ron Zuker**: “Educational Exchange Programme for Cleft Lip and Palate Repair: West Bengal and Assam India.” $110,000 CDN

**Residents Honours/Awards/Positions Held**

**Katie Armstrong**: 2016 Mentor Best Clinical Paper Award, Resident Research Day, the Division of Plastic & Reconstructive Surgery, University of Toronto, Toronto, Ontario.

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

**Ryan Austin**: Appointment as a “next generation” editor in the Aesthetic Surgery Journal. 2015-2016

**Ryan Austin**: Hugh Thompson Humanitarian Award 2015–2016. To commemorate his legacy, the Thomson family and the Division of Plastic and Reconstructive Surgery at the Hospital for Sick Children have established an award in his name to be given to the trainee in Plastic and Reconstructive Surgery who best emulates his values of collegiality, honesty, generosity, mentorship and humanitarianism.

**Joseph Catapano**: 2015-2016 Postgraduate Research Awards: Edward Christie Stevens Fellowships in Medicine, Dept. of Medicine, UofT

**Joseph Catapano**: 2016 - Allergen Prize for Basic Science Research, University of Toronto Plastic and Reconstructive Surgery Research Day, UofT

**Joseph Catapano**: 2015–2018 Frederick Banting and Charles Best Doctoral Award, CIHR.

**Joseph Catapano**: 2015 Hilda and William Courtney Clayton Pediatrie Research Fund, School of Graduate Studies, UofT

**Kathryn Isaac**: 2016 FM Woolhouse Award for Best Clinical Paper at the Canadian Society of Plastic Surgery Annual Meeting: “Constructing skin graft seams in burn patients: A prospective randomized double blinded study” with co-authors N. Umraw and Rob Cartotto.

**Kathryn Isaac**: 2016 D. R. Wilson Award: Awarded to a surgical resident rated as an outstanding teacher by undergraduate students in the Department of Surgery

**Kathryn Isaac**: 2016 Best Clinical Paper Award, Division of Plastic & Reconstructive Surgery Research Day

**Kathryn Isaac**: 2012 – present Board of Examiners, Resident Member, Post Graduate Medical Education, University of Toronto

**Kathryn Isaac**: 2014 – present Reviewer, Aesthetic Surgery Journal

**Kathryn Isaac**: 2016 – present Reviewer, Plastic Surgery Journal

**Jennica Platt**: Best Poster by a resident for her work “NippleSAVE Video: Development and validation of a patient educational video to increase patient knowledge regarding Nipple-Sparing Mastectomy” with co-authors T. Cil, L. Chan, Stefan Hofer and Toni Zhong.

**Dale Podolsky**: 2015-2016 Post Graduate Research Award: Edward Christie Stevens Fellowships in Medicine.

**Dale Podolsky** Basic Innovation Award for his presentation “The feasibility of daVinci robotic cleft palate repair and development of a novel robotic instrument for trans-oral robotic surgery” with co-investigators David Fisher, Karen Wong, Thomas Looi, Jim Drake and Chris Forrest.

**Dale Podolsky** Best Basic Science Award, Division of Plastic and Reconstructive Surgery, University of Toronto 2016: “Development of a Robotic Approach to Cleft Palate Repair”

AUTHORS: Dale J Podolsky, David M Fisher, Karen W Wong, Thomas Looi, James M Drake, Christopher R Forrest, SUPERVISOR: Dr. Christopher R Forrest & Dr. James M Drake

**Dale Podolsky** (Supervisors Drs. Christopher Forrest and Jim Drake) awarded the prestigious Vanier Scholarship. Dale’s PhD thesis is focused on developing a robotic approach to cleft palate repair and he has developed a remarkable surgical simulator to aid in his work. This scholarship is valued at $50,000 per year for three years during doctoral studies and considers three equally weighted evaluation
criteria: academic excellence, research potential, and leadership.

Sebastian Vrouwe: Junior Scholar for the med student Portfolio course and Senior Resident Residency Program Committee rep

Faculty Honours/Awards/Positions Held

Jamil Ahmad: was awarded the Division of Plastic and Reconstructive Surgery Chair’s “Above and Beyond” award 2015-2016. Jamil has done a terrific job of managing the Resident Aesthetic Clinic and also recruits some big names in the field to talk at the GTA Lecture Series. He co-organizes the Toronto Aesthetic Symposium. He continues to run a busy practice and productive academic profile.

Jamil Ahmad: William K. Lindsay Faculty Research Mentor Award

Dimitri Anastakis: Positions Held and Leadership Experience

Positions Held and Leadership Experience

Hospital

Service > Positions Held and Leadership Experience > Hospital
2015 Feb 6 - present Consultant Staff. Surgery, Womens’ College Hospital, Toronto, Ontario, Canada.
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.

University

Service > Positions Held and Leadership Experience > University
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.

University - Rank

Service > Positions Held and Leadership Experience > University - Rank
2011 May 1 - present Professor. Plastic and Reconstructive Surgery, Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.
2010 Jul 1 - present Professor (Status Only). Lawrence S. Bloomberg Faculty of Nursing, University of Toronto, Toronto, Ontario, Canada.

Ontario Not for Profit Corporation

Service > Positions Held and Leadership Experience > Ontario Not for Profit Corporation
2014 Oct - present Member, BOD Membership Committee. SIM-one, Ontario Simulation Network, 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.

Administrative Activities Other International

Service > Administrative Activities > Other > International Association for Surgical Education
2015 Apr - present ASE Development Committee, Chicago, Illinois, United States.
2012 Mar - present Past President, Board of Directors, Chicago, Illinois, United States.

National

Service > Administrative Activities > Other > National University of Manitoba
2016 May 29 - 2016 May 31 CACME Accreditation Site Visit, Continuing Education, CPD Medicine Program, Office of Continuing Competency and Assessment, Faculty of Medicine, Winnipeg, Manitoba, Canada.

Provincial / Regional

Service > Administrative Activities > Other > Provincial / Regional Cancer Care Ontario

Local

Service > Administrative Activities > Other > Local Department of Surgery
2015 Nov 15 Finance Committee, Toronto, Ontario, Canada. Toronto Western Hospital
1996 Jan 1 - present Member, Hand Program Business Group, University Health Network, Toronto, Ontario. University Health Network
1997 Jul 29 - present Member, University Health Network Medical Staff Association, Toronto, Ontario.

Oleh Antonyshyn:

Positions Held and Leadership Experience
2004 - present Associate Scientist. Imaging/Trauma Research, Sunnybrook Research Institute, Toronto, Ontario.
1996 Sep 1 - present 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 Craniofacial Forum
2008 Jan - present Member, Research Board.

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


Robert Cartotto: July 2016. Recognition Award University of Toronto, Department of Physical Therapy. Recognition Award for team providing great learning environments, guidance, supervision and are an inspiration to physical therapy students.

Robert Cartotto: Positions Held
2004 Jul 1 - present Associate Professor, Surgery, University of Toronto, Toronto, Ontario
2015 - present Member, Program Committee, American Burn Association
2013 - present Member, American Burn Association ad hoc Expert Panel on Fluid Resuscitation
2016 - 2018 Member, Burn Science Advisory Panel, Multi-Centre Trials Group, American Burn Association

Howard Clarke: Consulting Staff, Maxillo-facial Clinic. Holland Bloorview Kids Rehabilitation Hospital, Toronto, Ontario.

Howard Clarke: Service > Positions Held and Leadership Experience > Consulting
1987 - present Consultant, University Health Network, Toronto, Ontario.

Hospital: Active Staff Surgeon, Plastic Surgery. The Hospital for Sick Children, Toronto, Ontario.


University: Clinical Professor. College of Medicine, Korea University, Seoul, Korea.

University: Cross Appointment: University - Cross Appointment
Howard Clarke: The Chair of the newly formed Board of Directors elected in Punte del Este is Dr. Howard Clarke (Toronto), CSPS member and President. Congratulations to Howard as he moves from presidency to chairmanship.

Karen Cross: 2015-2016 First Annual Division of Plastic and Reconstructive Surgery Research Award, University of Toronto, to Dr. Karen Cross. Given to reward “up and coming” rising stars in the division who are demonstrating remarkable productivity in their first 5 years of practice.

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

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.


Karen Cross: 2016 Angels’ Choice Award for MIMOSA (Multispectral Mobile Tissue Assessment)


positions Held:
2004 Jul – Present: Active Staff, Medical Director, Cleft Lip & Palate Program, Division of Plastic & Reconstructive Surgery. The Hospital for Sick Children, Toronto.
2005 Jan – Present: Project Director, Population Health Sciences Program. The Hospital for Sick Children, Toronto.

University – Rank:
2010 Jul 1 – Present: Associate Professor. Plastic and Reconstructive Surgery, Department of Surgery, University of Toronto, Toronto.

University – Cross Appointment:

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

American Society of Maxillofacial Surgeons

2002 - present  Member, Research Committee

American Society of Plastic Surgery

2000 Nov 1 - present  Committee Member, Scientific Program Committee

2000 Oct 1 - present  Committee Member, Instructional Course Committee

A0/ASIF Continuing Education

1995 Sep 9 - present  Faculty Member, A0/ASIF North American Maxillofacial Education Committee

EDITORIAL BOARDS

Reviewer

2010 Jan - present  JPRAS

2003 - present  American Cleft Palate Craniofacial Journal

Reviewer

2001 Jan - present  Plastic and Reconstructive Surgery

1995 Sep 1 - present  Microsurgery Journal

GRANT REVIEWS

Member

1995 Sep 1 - present  Plastic Surgery Education Foundation, PSEF Grant Review Committee.

Tessa Gordon: awarded a Doctor of Science degree from University of Birmingham, UK.


Marc Jeschke: RTBC was awarded Best of the Best Award and came in second place amongst the top 10 performing ICUs in the International Nutrition Survey and the top performing burn site.

Marc Jeschke Program Chair of the 39th Annual Conference on Shock 2016 in Austin, Texas

Marc Jeschke was elected executive Council Member of the Surgical Infection Society.

Leila Kasrai: University Appointment

2000 – Present  Assistant Professor, University of Toronto, Toronto, Ontario

Hospital Appointments

2000 – Present  Active Member, Department of Surgery, Division of Plastic Surgery, St. Joseph’s Health Centre, Toronto, Ontario

2001 – Present  Associate Staff, Division of Plastic & Reconstructive Surgery, The Hospital for Sick Children, Toronto, Ontario


Ron Levine is the Director of Postgraduate Surgical Education, and continues to be heavily committed to education at all levels.

Joan Lipa: appointed Senior Examiner for the American Board of Plastic Surgery

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.

Frank Lista: Section Editor for the Breast Section of the Aesthetic Surgery Journal.

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

Steve McCabe: Dr. Steve McCabe and his team of 18 surgeons performed the first upper extremity transplant at Toronto Western Hospital. Dr. McCabe was one of the original group of surgeons in Louisville who performed the first hand transplant in 1999. Steve returned to Canada in 2012 to take Directorship of the Hand Unit at the University Health Network. This was an amazing feat of planning and many months to years in the making and represents a terrific team effort. While the surgical team comprised surgeons from the Hand Unit at Toronto Western, Toronto General Hospital and the Hospital for Sick Children, there was a remarkable collaborative effort involving the Division of Plastic and Reconstructive Surgery, the Trillium Gift of Life, Transplantation Service from UHN, UHN Administration and the Ministry of Long Term Health and Care.

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

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

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
John Semple: Awarded the “Mentor Award” by the Women’s College Hospital Research Institute. 2016.

John Semple: University of Toronto – Gallie Day: Award in recognition of 10 years of service as the Chief of Surgery at Women’s College Hospital. 2016.

Kyle Wanzel: 2015–2016 St Joseph’s Division of Plastic Surgery Preceptor Award.

Kyle Wanzel: single handedly leading the charge to attract the best and brightest medical students to consider a career in Plastic and Reconstructive Surgery. Each year, Kyle gives an annual talk to the 1st and 2nd year medical students about our specialty as a part of the SEAD Program. Surgical Exploration And Discovery (SEAD) Program is a 2-week summer program for medical students looking to gain multifaceted exposure to the direct entry surgical specialties at the University of Toronto. The SEAD Program is premised on the intertwining 4 ‘Es’ of exposure, education, experience and engagement. This year, 75 students turned out (best ever) and the response was terrific! Great work Kyle! The future of our specialty lies in engaging and interacting with the medical students – with a curriculum that has very limited opportunity for exposure to Plastic & Reconstructive Surgery, this is a challenge. The SEAD Program is a great way for us to get the message out.

Toni Zhong: George Armstrong Peters Prize for Department of Surgery, University of Toronto. (Distinction) Awarded to a young investigator who has shown outstanding productivity during his/her initial period as an independent investigator as evidenced by research publications in peer reviewed journals, grants held, and students trained.


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

Ron Zuker: Member, Plastic Surgery Council, Liaison for Canada, World Society for Reconstructive Microsurgery
2002 - present Scientific Advisory Board, United States

Ron Zuker: Member, Plastic Surgery Council, Liaison for Canada, World Society for Reconstructive Microsurgery
2000 - present Editorial Board (Revised), Journal of Reconstructive Microsurgery

Ron Zuker: Member, Plastic Surgery Council, Liaison for Canada, World Society for Reconstructive Microsurgery
1996 - present Editorial Board, Journal of Craniofacial Surgery

Visiting Professors
Jamil Ahmad: Travelled Amman, Jordon 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.

Dimitri Anastakis: Invited Lectures and Presentations
2016 Jan 16 Invited Lectures and Presentations
2015 Dec 5 Invited Speaker. Panel – Current Challenges in Canadian Health Care. Harvard School of Public Health, Boston, Massachusetts, United States. Presenter(s): Dimitri Anastakis, Lucie Opatrny, Peter Pieters. (1) Provide an educator’s perspective to the challenges and opportunities facing the Canadian Health care system (2) Coordinated Continuing Professional Development aligned with system needs is critical to quality improvement and patient safety (3) Simulation will play an important role in quality improvement and patient safety. Total Hours: 1

National Research Activities > Presentations and CE Activities > National Invited Lectures and Presentations
2016 May 7 Invited Speaker. Peripheral Nerve Transfers in the Upper Extremity. Canadian Society of Hand Therapists, Toronto, Ontario, Canada. Presenter(s): DJ Anastakis. Define nerve transfers (NT) Describe the rationale and indications for NT List the principles of NT Understand NT nomenclature Better understand commonly performed NT and their outcomes. Total Hours: 8

Co-author. Effect of forearm warming

Presented Abstracts
Research Activities > Other Research and Professional Activities

2015 Sept - present  
**Co-Investigator.** Type: Research Project.  
Supervisor(s): Anastakis. Collaborators: Maryam Saheb-Al-Zamani and Laurent Wehrli.  
Retrospective review of outcomes following tendon transfer for upper extremity paralysis - 10 year review.

2016 Jan 1 - 2016 Jun 30  
**Co-Supervisor.** Type: Research Project.  
Supervisor(s): Anastakis. Collaborators: Christine Novak and Dimitri Anastakis. Collaborators: Research Fellow - Dr. Michael Wendt.  
Purpose  
The overall aim of this study is to evaluate the prevalence of cold sensitivity in patients with upper extremity nerve compression syndromes. We hypothesize that patients with peripheral nerve compression syndromes will have cold sensitivity. To our knowledge there have been no studies that have evaluated the prevalence of cold sensitivity in nerve compression syndromes.

**Oleh Antonyshyn:** Visiting Professor: Atlantic Society of Plastic Surgeons, Halifax, Nova Scotia, Oct 2015

**Oleh Antonyshyn:** Visiting Professor: University of Alberta, Edmonton, April 2016

**Brett Beber:** Co-chair at the Annual Toronto Breast Symposium in April 2016.

**Greg Borschel:** Visiting Professor: Facial Paralysis in Children. University of Michigan. Ann Arbor, Michigan, United States. 2016 Apr 21

**Greg Borschel:** Visiting Professor: Corneal Neurotization: A Peripheral Nerve Surgical Approach to Treating Blindness. University of Michigan. Ann Arbor, Michigan, United States. 2016 Apr 21

**Greg Borschel:** Visiting Professor: Cadaver Head Demonstration; Techniques in Facial Palsy. University of Michigan. Ann Arbor, Michigan, United States. 2016 Apr 21

**Mitch Brown:** American Society of Plastic Surgical Nurses, Boston, MA, Oct 17, 2015. Advocacy in surgery - Breast Reconstruction


Mitch Brown: Barcelona Breast Meeting, Barcelona, Spain, Mar 17, 2016. Why you should use ADM in breast reconstruction.


Howard Clarke:

**Invited Lectures and Presentations**

**Presented Abstracts**

2016 May 7  Postoperative pain in infants with obstetrical brachial plexus palsy following primary microsurgical reconstruction. XIX Narakas Symposium, Barcelona, Spain. Presenter(s): Davidge K, Lee WJ, Ho ES, Stephens D, Clarke HM.

2016 Apr 28 Obstetrical brachial plexus palsy. Department of Paediatrics Grand Rounds, Royal Victoria Regional Health Centre, Barrie, Ontario, Canada.

2016 Apr 7 Obstetrical brachial plexus palsy and its sequelae. Orthopaedics Grand Rounds, University of Alabama at Birmingham, Birmingham, Alabama, United States.

2015 Nov 25 Pediatric Plastic Surgery, U of T Medical Student Career Night, University of Toronto, Toronto, Ontario, Canada.

**Christopher Forrest:**

**Invited Lectures and Presentations**


2015 Aug 7  

2015 Jun 22  

2015 Jun 5  

**Presented Abstracts**

2015 Jun  

2015 Jun  

**Peer Reviewed Scientific Presentations**

2016 Jun 18  

2016 Jun 18  
**Presenter.** Nasal Monobloc Osteotomy for Residual Nasal and Orbital Asymmetry of Unicoronal Synostosis. 70th Annual Meeting of the Canadian Society of Plastic Surgeons. Ottawa, Ontario, Canada. Presenter(s): Ching JA, Forrest CR.

2016 Jun 16  

**Other Invited Lectures and Presentations**

2015 Aug 8  
**Invited Lecturer.** Lefort I. ASCFS/ASMS Boot Camp: Essential Training for Craniofacial Fellows, Stefan Hofer  

**Stefan Hofer**  
Visiting Professor. Improving aesthetic outcomes in autologous tissue breast reconstruction. Mayo Clinic. Scottsdale, Arizona, United States. 2016 Mar 14

**Marc Jeschke:** American Burn Association Annual Meeting, May 2-6, 2016 Las Vegas

**Podium Presentations**

1. Ventilating the Burn Patient with Acute Respiratory Distress Syndrome (ARDS): ARDSNet vs. What Actually Happens Y. Ching, MD, D. Wood, RRT, L. Tremblay, MD, FRCS, R. Cartotto, MD, FRCS.

2. Use of a Temporary Biosynthetic Skin Substitute (TBSS) in Stevens Johnson - Toxic Epidermal Necrolysis Syndrome (SJS-TEN). A. Rogers, MBBCCh, MMed, E. Blackport, RN, R. Cartotto, MD, FRCS.

3. Constructing Skin Graft Seams in Burn Patients: A Prospective Randomized Double Blinded Study. K. Isaac, MD, N. Uusuraw, OT, R. Cartotto, MD, FRCS.

4. Assessing Primary Care Trainee Comfort in the Diagnosis and Management of a Thermally Injured Patient S. Q. Vrouwe, MD, S. Shahrokhi, MD, FRCS.

5. One Year Later: A Population-Based Analysis of Urgent Readmissions After Major Burn Injury. S. A. Mason, MD, A. Gonzalez, MSc, A. B. Nathens, MD, PhD, M. G. Jeschke, MD, PhD.

6. The Influence of Operative Time and Hypothermia in Burn Surgery. N. Ziolkowski, MD, A. Rogers, MBBCCh, MMed, S. Shahrokhi, MD, FRCS, W. Xiong, MSc, B. Hong, BHSc, S. Patel, B. Trull, MD, M. Burnett, BSc(Hons), M. Jeschke, MD, PhD.

**Invited Presentations**

Post Grad Course: Infections in Burns: Pathophysiology, Diagnostics, and Prevention. May 4 2016 Marc G. Jeschke, MD, PhD, FACS, FCCM, FRCS(C)

Resuscitation: has the pendulum swung back? Marc G. Jeschke, MD, PhD, FACS, FCCM, FRCS(C)

**Posters**

1. Comparison of Novel Predictors of Burn Sepsis Versus the American Burn Association Sepsis Criteria. J. Yan, BSc(Hons), M. A. Burnett, BSc(Hons), J. Bian, BSc(Hons), W. Xiong, MSc, S. Shahrokhi, MD, FRCS, M. G. Jeschke, MD, PhD.

2. A Fifteen-Year Retrospective Review of Clinical and Psychosocial Outcomes Following Electrical Injuries N. Radulovic, BSc(Hons), M. A. Burnett, BSc(Hons), M. G. Jeschke, MD, PhD.

3. A Review of 26 Cases of Frostbite in an ABA Verified Burns Center A. McKenna, MBBCCh, MSc, FRCS, FRCS(Plast), M. Burnett, BSc(Hons), A. Rogers, MBBCCh, MMed, M. Jeschke, MD, PhD.

4. Morbidity and Mortality Post-Burn Injury S. Rehou, MS, K.
Smith, RN, MHA, M. Jeschke, MD, PhD

5. One Trip Too Many: The Undertriage of Burn-Injured Patients Despite Burn Triage Guidelines E. Sacoransky, S. Mason, MD, J. Byrne, MD, M. Jeschke, MD, PhD, R. Verbeek, MD, R. Olynyk, EMT-P, A. Nathens, MD, PhD

6. Post-Mortem Findings Associated with Inhalation Injury S. Rehou, MS, J. Banfield, RN, M. Jeschke, MD, PhD

7. Temporal Trends in Mortality and Regionalization of Burn Care: A Population-Based Analysis S. A. Mason, MD, A. Gonzalez, MSc, A. B. Nathens, MD, PhD, G. Jeschke, MD, PhD

8. A Retrospective Review of Chemical Burns Admitted to a Regional Burn Centre from 2007-2014 A. Iiadpanah, MD, S. Shahrrokhi, MD, FRCS, C. A. Burnett, BSc(Hons), K. E. Smith, RN, MHA, M. G. Jeschke, MD, PhD

9. The Timeline of Hypoglycemia and Morbidities in Burn Patients V. Au, BSc(Hons), R. Pinto, MS, M. A. Burnett, BSc(Hons), K. Smith, RN, MHA, M. G. Jeschke, MD, PhD

10. A Depleted CD90 Positive Mesenchymal Stem Cell Population Contributes to Deficient Wound Healing in the Elderly S. Amini Nik, MD, PhD, A. Abdullahi, MSc, R. Yao, BSc(Hons), N. Yu, BSc(Hons), C. Belo, MSc, M. Jeschke, MD, PhD

11. Cellularized Bilayer Pullulan-Gelatin Hydrogel for Skin Regeneration S. Amini Nik, MD, PhD, M. Nicholas, BSc(Hons), M. Jeschke, MD, PhD

12. Burn Size Estimation and Fluid Resuscitation: A 7 Year Review of Admissions to a Regional Burn Unit R. A. Austin, MD, S. Schlagintweit, MD, M. G. Jeschke, MD, PhD, S. Shahrrokhi, MD, FRCS

13. Surgical Management of Soft Tissue Necrosis Due to Levamisole Related Vasculitis G. MeCvenue, MD, M. Brichacek, BSc, MD, S. Logetty, MD, S. Shahrrokhi, MD, FRCS

American Surgical Association Chicago April 2016


Shock Society Austin Texas June 2016

2. Melanocyte precursor-like cells in the umbilical cord. Reinhard Dölp, Byron Chan, Marc Jeschke, Saeid Amini-Nik

3. Abnormal mitochondrial fusion and fusion are associated with hepatic metabolic alterations after thermal injury in obese mice. Li Diao, Ali-Reza Sadri, Hisato Konoeda, Saeid Amini-Nik, Marc G. Jeschke


Ron Zuker: Visiting Professor: Ichilov Hospital, Tel Aviv, Israel, November 2015

Ron Zuker: Visiting Professor: University of Mexico, October 2015

Ron Zuker: Special Guest Lecturer: Mexican Moebius Syndrome Foundation, October 2015.

Continuing Medical Education

5th Annual Breast Reconstruction Awareness Day (BRA Day) was held on October 21, 2015, 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.

1st Medical Student Career Night held on November 25th, 2015 with an attendance of just under100 medical students at the Peter Gilgan Centre for Research and Learning designed to showcase the breadth and depth of Plastic and Reconstructive Surgery.

1st Career Night 2015: Drs. Frank Lista, Wayne Carmen, John Semple, Mary Helen Mahoney, Michael Kreidstein, Ron Zuker and Tim Sproule generously shared their wisdom and thoughts on how to be successful in Plastic and Reconstructive Surgery held on May 20, 2015 at the University Club of Toronto.

The 16th Annual Toronto Breast Symposium was held on April 14, 2016 at the King Edward Hotel. Congratulations to Chair Dr. Mitch Brown and Co-Chairs Drs. Brett Beber and Kyle Wanzel for putting on a spectacular program. Over 190 people were registered for this event which included visiting guests Dr. Jim Nammoum from Atlanta, Georgia as the J. Michael Drever lecturer as well as Dr. Ed Buchel from Winnipeg and Dr. Brad Calobrace from Louisville, Kentucky. The meeting was a great success and congratulations to Mitch, Brett, and Kyle for continued success in the future.

The 46th Annual Aesthetic Plastic Surgery Symposium was held on April 15 - 16, 2016. Congratulations to Course Director and Lecturer Dr. Janil Ahmad and Course Co-Chairs Drs. Tom Bell and Frank Lista. This year the invited faculty included Dr. M. Bradley Calobrace, from Louisville Kentucky, as the University Aesthetic Lecturer; Dr. Barry E. DiBernardo, from Montclair, New Jersey as the University of Toronto Visiting Professor; Dr. David A. Hidalgo from Manhattan, New York as the Walter J. Peters Lecturer; Dr. Glenn W. Jelks as the WR. N. Lindsay Lecturer; and Dr. Akin Yucel from Istanbul, Turkey. Over 240 people were registered for this conference which was held at the King Edward Hotel and it covered another scope of aesthetic plastic surgery from the anatomical basis of blepharoplasty to perils in creating a comprehensive plastic surgery practice.

1st Lindsay Research Competition 2016

On behalf of the Division of Plastic and Reconstructive Surgery at the Hospital for Sick Children, I would like to take this opportunity to thank Drs. Ali Ghanem, Hélène Retrouvey, Natalia Ziolkowski, Jana Dengler, Joseph Catapano, Pundrique Sharma, Dale Podolosky and Jessica Ching for a high-quality series of presentations at the Lindsay Research Competition on Wednesday, June 22nd, 2016. The judges were impressed by all of the presentations in terms of quality, content and presentation. Congratulations to Dr. Joseph Catapano for his work “Corneal neurotization: Investigating a surgical solution for neurotrophic keratitis” (Supervisor: Dr. Greg Borchsel). Dr. Lindsay would have been most proud of the accomplishments of the group and to see that surgical research is alive and thriving at SickKids. Extraspecial thanks to Emily Ho, OT, our divisional research coordinator for organizing the event.

KLS Martin Craniofacial Lectureship

On February 25th, 2016, the division was fortunate to host Yale faculty Dr. Derek Steinbacher who delivered a terrific Professor’s Rounds entitled “Aesthetic considerations in orthognathic surgery” which blended the best of current technology, CAD-CAM modeling, cone-beam CT imaging and surgical planning methodologies. Dr. Steinbacher obtained his MD from Harvard Medical School and his DMD from the University of Pennsylvania, both with honors. He received fellowship training in craniofacial surgery from Children’s Hospital of Philadelphia, completed the plastic and reconstuctive surgery program at Johns Hopkins Hospital, and trained in oral/maxillofacial and general surgery
at Massachusetts General Hospital. Derek is Associate Professor of Surgery, Chief of Oral and Maxillofacial Surgery and Chief of Dentistry and Director of Craniofacial Surgery at Yale.

On June 10th, 2016 the second KLS Martin Lectureship was given by Dr. Amir Dorafshar. Amir is an Associate Professor of Plastic and Reconstructive Surgery and Neurological Surgery at the Johns Hopkins University School of Medicine and Clinical Co-Director of the Face Transplant Program with a remarkable CV for someone who started his academic career at John’s Hopkins in 2010 (103 peer reviewed scientific papers and 12 book chapters to his name) and was an integral member of the Baltimore team that performed the first full face transplant in 2012 and is currently editing a textbook on Facial Trauma. He gave an inspiring lecture entitled “Craniofacial Surgery: Can we survive the future?”

Many thanks to KLS-Martin for sponsoring these visits.

UoT GTA Lecturership Series

In an attempt to bring academic and community partners together in a combined social and educational setting, we had held a series of dinner lectures (started in 2014-2015) and these lectures have appealed greatly to our PRS community. These evenings have been held centrally at The University Club with well-known experts in the field to share their expertise in an informal and enjoyable setting. The first dinner lecture of the 2015-2016 academic year was arranged on September 24, 2015 with Dr. Jaime Masía, Chief of Plastic Surgery Department at Hospital de la Santa Creu i Sant Pau-Hospital del Mar in Barcelona, Spain and a well-known icon in the microsurgery world. He has incredible expertise in supermicrosurgery (involving vessel anastomosis 0.3 to 0.8 mm diameter) and a highly engaging speaker. He has published a book on lymphedema surgery (with former UofT Chair Dr. Peter Neligan) Mr. Jian Farhadi was the second lecturer that evening and is a fully credited Consultant Plastic Surgeon and the Director of the Department of Plastic & Reconstructive Surgery at Guy’s and St. Thomas’ Hospital in London. He is a specialist in reconstructive and aesthetic breast surgery and a reader at the Faculty of Medicine at the University of Basel in Switzerland and manages a dual practice in London and Switzerland. The topics of discussion included current concepts in breast reconstruction, super-microsurgery, lymphedema surgery and the role of an oncoplastic surgical approach to the management of breast reconstruction. The talks were passionate and engaging. Thanks to Stefan Hofer and Mitch Brown for coordinating these visits!

The second dinner was held on February 3, 2016 with visiting speaker Dr. Nicholas Guay and delivered a terrific lecture “Improving availability of breast reconstruction flap surgery through efficiency”, Dr. Nicholas A. Guay was appointed Corporate Chief of Surgery and Medical Director of Surgery at the William Osler Health System in January 2014 after starting his career in Ottawa where he developed a Breast Cancer Reconstruction Team. Dr. Guay has numerous national and international presentations discussing Single Stage Autologous and Implant Breast Reconstruction, Efficiency in the Operating Room and, Surgical Education. Dr. Guay is the creator and lead physician behind a national breast reconstruction patient education website, www.breastreconstructioncanada.ca

The third talk for the academic year was held on April 7, 2016 and featured Dr. Howard N. Langstein, M.D., who is the Chief of Plastic and Reconstructive Surgery at the University of Rochester Medical Center. Howard presented a remarkable lecture entitled “Leonardo DaVinci – Artist and Engineer and Inspiration for Plastic Surgeons” drawing on the inspirations of one of the most innovative and original renaissance artists and applying these principles to what we do on a day to day basis in Plastic and Reconstructive Surgery.

2016 Hoyle Campbell Visiting Professor

This year’s Hoyle Campbell Visiting Professor event was held over a 2 day period: Feb. 18-19, 2016 and was held at the Peter Gilgan Learning Centre. The invited visiting professor was Dr. Gary Burget, Clinical Associate Professor, University of Chicago. Dr. Burget is regarded for his “sub-unit” approach to nasal reconstruction and very generously donated copies of his most recent book “Aesthetic reconstruction of the child’s nose” to all of the residents. He provided some interesting insights into nasal reconstruction during his lecture.

14th Annual Ralph T. Manktelow Hand and Microsurgery Lectureship

Manktelow Day and the Hand and Upper Extremity Update were held on Oct 16 and 17, 2015. This was the first year these two events were combined into a two-day offering. The primary topics covered included carpal bone fractures, Dupuytren’s Disease, and distal radius fractures. The meeting was successful with 92 attendees at both days representing surgeons and therapists from as far away as Winnipeg, Ottawa, and Thunder Bay. Our faculty included members of the Plastics and Orthopaedics Divisions and Hand Therapists. Our guest speaker this year was Dr. Amit Gupta from Louisville KY, who gave the “Manktelow Lecture” on scaphoid fractures. Congratulations to Dr. Steve McCabe for organizing this event.

12th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

In 2003, the first Lindsay-Thomson Pediatric Plastic Surgery Symposium was held at the Hospital for Sick Children. This CME event was designed to acknowledge the contributions and achievements of our mentors and teachers, Drs. W. K. Lindsay and H. G. Thomson who collectively accumulated 90 years of clinical practice at the Hospital for Sick Children, by showcasing what is going on in the division.

This year, we did something a little more special by using the Twelfth Annual Symposium to recognize the career and accomplishments of Dr. Ron Zuker. In June 2015, after 37 years, Ron retired from active clinical practice but continues to remain active and viable with select participation in cases and involvement in SickKids International and global outreach. His contributions in the arenas of cleft surgery, microsurgery, separation of conjoined twins, congenital hand surgery, composite vascularized allotransplantation and free-functional muscle transfer most notably in restoration of a smile are unparalleled and he has had a career to be envied. So we invited 22 of his former fellows and best friends from all points of the globe to come and speak (Israel, Ireland, Switzerland, England, Australia, Taiwan, the US and Canada) – a highlight included this year’s Vale Lecturer Professor Fu-Chan Wei from Chang Gung Memorial Hospital in Taipei. Professor Wei was a former fellow of Drs. Zuker and Manktelow in 1979 and celebrated his continuing relationship with Toronto Plastic and Reconstructive Surgery with his lecture “The Blooming Plastic and Reconstructive Surgery Center at Chang Gung – The Fruit of Toronto’s Contribution”.

Thanks to the speakers who all put their best feet forward in participating in this remarkable event.

Dr. Ralph Manktelow (Toronto): A Bit of Toronto Microsurgery History

Mr. Adel Fattah (Liverpool, UK): Facial Nerve Grading Scales: Which
Nancy. In that era, the concept of the Surgeon-Scientist was in its embryonic state and Nancy’s career trajectory is a testament to its importance in academic surgery. Nancy started her staff appointment as the first divisional female member at the University of Toronto in 1979 and became a full Professor in 1993. In her typically idiosyncratic and creative manner, she has maintained several unique staff cross-appointments in both the University of Toronto School of Physical and Health Education (since 1988) and the Department of Kinesiology at the University of Waterloo (since 1997). In this way, she has been able to expand the horizons of our specialty and develop collaborative and fruitful relationships with groups that don’t routinely cross the path of the Plastic and Reconstructive surgeon. Most notably she has been integral in the success of several Surgeon-Scientist trainees including Dr. Bill Kuzon, Dr. Howard Clarke, and Dr. Joel Fish all of whom have risen to high levels of prominence in the academic arena of Plastic and Reconstructive Surgery.

Nancy’s contributions to the research profile of Plastic and Reconstructive Surgery cannot be overstated. At a local level, for years she continued to run research supper clubs at her house allowing opportunities for the research community here at the University of Toronto to get together in a collaborative and collegial fashion. Nancy has been a lifelong supporter of the Plastic Surgery Research Council and brought this remarkable meeting to Toronto in 1992 where she was the Chair.

Generous, collaborative, broad-minded, idiosyncratic, sensitive, innovative, loyal and dedicated. These are terms that come to mind when one reflects on Dr. Nancy McKee and her career. It is safe to say that her investments in the field of Plastic and Reconstructive Surgery have enriched and fostered the specialty. Congratulations to Nancy on a remarkable and rich career and thank-you for all that you have done for our division.

Graduation Gala Event

The highlight of the academic year is the Graduation Gala Dinner that celebrates the successes of the graduating class and recognizes some important contributors within the division. On June 23rd, 2016, the Rosewater Room opened its doors to celebrate all that is good within the Division of Plastic and Reconstructive Surgery at the University of Toronto and this year we had some very special guests! For the very first time, we also celebrated our esteemed alumni! We decided to celebrate those alumni graduating over a 30-year period from 1956 to 1986 as well as distinguished recent alumni. Director of Alumni Relations Dr. Ron Zuker organized the creation of a commemorative medallion (The Chairs’ Medal) individually numbered making each one unique. Each medal was inscribed with a name, the year of graduation and the alphabetical order of graduation. A highlight of the medallion handout was seeing our oldest alumnus, Dr. Leslie Chasmar (graduate of 1956) who is now 93 years young come to the podium and tell the audience about life as a resident under Dr. A.W. Farmer.

Royal College Fellowships

Ryan Austin successfully passed his RCPSC fellowship examination.
Siba Haykal successfully passed her RCPSC fellowship examination.
Kathryn Isaac successfully passed her RCPSC fellowship examination.
Jennica Platt successfully passed her 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 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.

There are new improvements and projects in the works and will be launched very soon.

I hope that you will take the opportunity to explore and utilize the many aspects of this user-friendly and informative website: http://www.uoftplasticsurgery.ca/. Take a look at our new webpage for the Resident Aesthetic Clinic as well: http://www.uoftplasticsurgery.ca/clinic/
The Division of Thoracic Surgery continued its tradition of clinical, research and teaching excellence this last year. Our faculty across the University of Toronto including cross-appointees from our close collaboration with our colleagues at McMaster University received recognition for the academic efforts. Dr. Kazuhiro Yasufuku was awarded the Gustav Killian Centenary Medal at the 19th World Congress of Bronchology and Interventional Pulmonology Meeting in Florence and the University of Toronto Faculty of Medicine, Ivan Silver Innovation Award at The Faculty of Medicine’s 14th Annual Education Achievement Celebration. Dr. Abdollah Behzadi was awarded the Dr. Norman Hill Award for Leadership in Education. Dr. Yaron Shargall was nominated for CCO Human Touch Award, and was also nominated for the RCPSC Mentor of the Year Award. Dr. Shaf Keshavjee was awarded the Dr. Joel Cooper Award from the Canadian Society of Transplantation and appointed as Secretary Treasurer for the American Association of Thoracic Surgery. Dr. Marc De Perrot was appointed a member of the Mesothelioma Task Force for the International Association for the Study of Lung Cancer, recognizing his growing reputation in this field.

Dr. Cypel was a Co-Principal Investigator on a CIHR grant entitled “Supervised in vivo lung perfusion strategy for treatment of cancer metastases to the lungs. Real time monitoring of chemotherapy by on-site analytical platform”, continuing on from his expertise in isolated perfusion of the lung. Dr. Yasufuku continues to grow his research program with funding from CCSRI for a project on “Ultra-minimally invasive multi-modal image guided therapeutics of lung cancer”.

In celebrating Pearson Day, the event that annually recognizes the clinical and laboratory research completed by trainees in our Division, we welcomed Dr. Tommy D’Amico as our Visiting Professor and Keynote Speaker. Dr. Anna Bendzsak and Dr. Tatsuya Kato were awarded Best Clinical Research Paper and Best Basic Science Research Paper honours respectively.

Yet another highly successful Endobronchial Ultrasound Training Course was followed by the internationally attended Toronto Thoracic Refresher Course was carried out in June 2016. Speakers at the Refresher Course included the highly regarded Dr. James Bond, Dr. Walter Klepetko, Dr. John D. Mitchell as well as Dr. David C. Rice who participated in both the Refresher and EBUS courses. Dr. De Perrot organized a very well received course on thromboembolic lung disease for a variety of physicians including primary care.

Lastly, we are happy to note the cross appointment of Dr. Kasia Czarnecka to the Department of Surgery, and welcomed both Dr. Laura Donahoe and Dr. Jonathan Yeung as Clinical Assistants to the Division. Dr. Colin, Schieman, a cross-appointee from our McMaster collaboration departed to returning closer to his family in Calgary.
The Division of Urology has had a productive academic year. We currently span 28 geographic full time faculty as well as 3 full-time PhD scientists, spanned over 6 fully affiliated University-based hospitals. We train over 58 students including 23 residents and 35 fellows.

**Recruitment**

Dr. Raj Satkunisivam has joined our faculty and is based at the Sunnybrook site.

**Academic Promotion**

No promotions this year after a string of many of the past few years.

**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 6.5 million dollars:

- Robert Hamilton
- Keith Jarvi
- Girish Kulkarni
- Andrew Matthew
- Bharti Bapat
- Neil Fleshner
- Alexandre Zlotta
- Robert Nam
- Laurence Klotz

**Resident/Fellow Awards**

Dr. Thomas Canil won the Harrison award as best surgical teacher at Sunnybrook.

Dr. Chris Wallis won Best Poster at this year's AUA meeting, as well as a Banting/Best CIHR award.

Dr. Douglas Cheung won a Canadian Urological Oncology Group (CUOG) award.

Dr. Alaina Garbens won an American Urology Association Scholarship.

Dr. Keith Lawson won a Vanier Award.

We currently have five residents in the surgical scientist training program (Drs. Alaina Garbens, Mitchel Goldenberg, Keith Lawson, Madhur Nayan & Chris Wallis).

**Faculty Awards**

Dr. Laurence Klotz won the Richard Williams Award from the AUA in Prostate Cancer excellence. 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. He has been elected to the American Association of Genitourinary Surgeons. He is also Chair of a large Pan-Canadian Prostate Cancer metabolism network.

Dr. Ethan Grober addressed the AUA Plenary in 2016 on Infertility.

Dr. Michael Ordon completed his continuing appointment review.

Dr. Robert Hamilton completed his continuing appointment review and won the Jewett Postgraduate Teaching award.

Dr. Jason Lee has agreed to become the Residency Program Director.

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

**Visiting Professors**

Dr. Patrick Luke of London Health Sciences Centre & University was our Menkes Lecturer.

Dr. Peter Schlegel of New York-Presbyterian/Weill Cornell Medical Center, was our Robson Professor.

**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. In addition he was named one of the Top Ten Reviewers for the Journal of Urology.

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. This year he was awarded a CIHR grant for his research entitled, “Environmental Microbe-Gene Interaction: Role of Host Epigenetics in Chronic UTI”. He is also supervising research fellowships with funding from the Society for Pediatric Urology and the AUA Foundation. He also serves as Deputy Chief of Surgery at Hospital for Sick Children and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering with projects funded by The Hospital for Sick Children’s Foundation and the Dean’s Fund. He participated in projects funded by the Ontario Research Fund and Canadian Foundation for and the Center for Computer-Assisted Intervention and Innovation. He 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.

He continued his research work in projects funded by the Hospital for Sick Children Inaugural Innovation Fund, PSI, and the Medical Council of Canada. He has been an invited speaker in Europe and North America.
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 Society Research Institute, Institut Merieux, Canadian Uro-oncology Group, PSI, and with non-peer review grants from GSK and Pierre Fabre Medicaments.

Dr. Kirk Lo continued his basic research in Infertility with a multi-year grant funded by the National Institutes of Health and in projects funded by CIHR, MaRS Innovation, Canadian Cancer Society Research Institute, Canadian Uro-oncology Group, and PSI. He 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. This past year he made the important discovery of a prostate cancer lethal gene.

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 (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. He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer with funding from NCIC, Prostate Cancer Canada, CIHR, and Ferring. He was guest speaker and visiting professor in Asia, UK, Europe, South and North America. Dr. Klotz won the coveted Harold Warwick prize from the Canadian Cancer Society as well as an Order of Canada.

Dr. Ron Kodama, site Chief at Sunnybrook, worked endlessly in organizing the 11th Annual Resident Basic Science Course. In addition he again took the lead in directing the annual Urology Fair.

Dr. Robert Nam continued his work on his peer-reviewed projects. His funding is currently from NCIC and CIHR. He was an invited speaker in many places within and outside North America. He is Canadian site lead for a large NIH grant on prostate biopsy.

Dr. Vasundara Venkateswaran continued her basic research in prostate cancer with funding from CIHR, Prostate Cancer Canada and Ferring. Dr. Venkateswaran continues her important role of Graduate Coordinator at the Institute of Medical Sciences.

University Health Network (TGH/PMH)

Dr. Neil Fleshner 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, CPCRF, Canadian Cancer Society Research Institute, Prostate Cancer Canada Research Foundation, Prostate Cancer Research Foundation, NIH, and GSK. He was invited speaker at meetings in Canada, U.S, Australia, Asia and Europe. He was reappointed 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 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 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 8th Annual Uro-Oncology Dialogue meeting in Niagara on The Lake. This year Tony was appointed as Head of the Division of Urology at this site.

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 invited to speak across the country.

Dr. Girish Kulkarni continues his epidemiological research in bladder and prostate cancer with peer-reviewed funding.

Dr. Robert Hamilton continues his work on statins, SNP’s and prostate cancer. He was an invited speaker throughout Canada.

University Health Network (TWH)

Dr. Magdy Hassouna continued his basic and clinical work in neuroendocrinology. 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. He continued as the Assessor of...
Educational Performance for the Department of Surgery.

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.

**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.

Dr. Robert Stewart carried on as the Residency Program Director, as well as Director of Undergraduate Surgical Education at St. Michael’s. He remains as the principal urologist in the kidney transplantation program.

Dr. Jason Lee persisted to make strides in his work in education-based research and minimally invasive surgery. In addition he has assumed a major role in core curriculum development for undergraduate education.

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

**Events & Awards – Robson Research Day**

Dr. Ron Kodama won the Michael Jewett Postgraduate Lecture Award.

Dr. Walid Farhat won the A.W. Bruce Undergraduate Teaching Award.

Dr. Robert Sowerby won the Fellowship Teaching Award.

Dr. Jason Lee and Girish Kulkarni tied for the Faculty Postgraduate Clinical Teaching Award.

Dr. Nam & Herschorn tied for the Faculty Postgraduate Surgical Teaching Award.

Dr. Azik Hoffman won the Outstanding Fellow Research award.

Drs. Chris Wallis took first place for Outstanding Resident Research award.

Drs. Thomas Canil and Yonah Krakowsky tied this year for the Patrick Harty Award for Excellence in Patient Care.

Drs. Bimal Bhindi, Yonah Krakowsky and Hanmu Yan, successfully completed their Royal College exams.
Division of Vascular Surgery
Thomas Forbes, Chair

General:
The 2015/16 academic year was a busy year in the Division of Vascular Surgery, marked by continued innovation in education and research building on our position as the largest and most academically productive vascular surgery division in Canada.

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 Past-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 at UHN.

Recruitment:
In early 2015 Dr. Kerry Graybiel was recruited from McMaster University as a new clinical appointment at the Humber River Hospital.

Promotions:
Congratulations to Dr. Graham Roche-Nagle (University Health Network) for his academic promotion to Associate Professor in the Department of Surgery at the University of Toronto. This is an important achievement and a testament to his academic productivity and leadership.

Education:
2015 began with the Vascular Surgery Bootcamp, organized by Luis Figueroa (PGY5). After completing the Department of Surgery’s common surgical skills camp at the beginning of the month, Lauren Gordon and Cale Zavitz, the Vascular Surgery residency program’s new PGY1 trainees, spent two weeks in a combination of vascular surgery-specific lectures and hands-on training sessions designed to teach critical skills prior to the start of clinical residency training. Lectures included arterial and venous physiology, vascular labs, carotid disease, and aortic aneurysmal disease in order to provide the trainees with the fundamentals. Staff and residents then led them through how to perform a carotid endarterectomy, open AAA repair, femoral embolectomy, femoral anastomosis, and SFJ dissection. Endovascular skills were also front and centre, including case-based teaching with faculty and hands-on practice with aortic and peripheral devices, wires, and catheters from three different manufacturers, including completing simulated EVARs on a computerized model. In keeping with the division’s focus on educational research, trainees were evaluated throughout the camp, including a final evaluation to ensure competency to complete a carotid endarterectomy and open AAA repair under supervision. This is a program that is unique among Canadian Vascular Surgery training programs, and is one which was highly valued by both of our new trainees.

The first U of T Advanced Aortic Surgery Fellow will begin a two year clinical and research fellowship in July 2016. The Fellowship is a joint educational program of the University of Toronto’s Divisions of Cardiac Surgery and Vascular Surgery and is administered by Co-Program Directors, Drs. Chris Caldarone and Thomas Forbes. The Program Committee is also comprised of cardiac and vascular surgeons from St. Michael’s Hospital, Sunnybrook and UHN. The Fellowship provides specialized and advanced training in open and endovascular surgery for thoracoabdominal aortic pathologies (including aneurysms and dissections), beyond that of Cardiac Surgery and Vascular Surgery residency training. The Fellowship will take place in a multidisciplinary, multispecialty, multihospital, academic environment where the best surgical treatment (open and/or endovascular repair) is chosen for each patient.

Research:
It was a productive year on the research and innovation side with all time high numbers of publications and levels of research funding.

The Surgeon Scientist Training Program continues to be a vital enabler for our division’s academic productivity and training. In support of the future leaders and academic vascular surgeons we were extremely excited to announce the introduction of a scholarship program. This was made possible through the generous donation from the estate of Mr. Frank Goerc. These Goerc Scholarships will be awarded annually and will ensure the continued support of our SSTP residents, tomorrow’s leaders in academic vascular surgery.

We were also excited to announce the winners of the inaugural Blair Foundation Vascular Surgery Innovation Fund competition. This Fund supports investigator sponsored research in vascular disease, with recipients subject to internal U of T peer review. Drs. Elisa Greco and Mark Wheatcroft were awarded these grants. Dr. Greco project was titled, “Pulse Wave Velocity Imaging in the Assessment of Peripheral Arterial Disease”, while Dr. Wheatcroft was funded for his project titled, “Direct Visualization of Carotid Artery Plaque and Stenting Using a Novel Scanning Fiber Angioscope”.

The highlight of our academic year was our annual Research Day that was held in early June 2016 at the University Club of Toronto the day after our Resident & Fellow Graduation Dinner at the Hockey Hall of Fame. Research Day was packed with outstanding presentations by our
students, residents, and scientists. Cale Zavitz won the Award for Best Presentation by a Junior Resident for his presentation, “Quantification of serum Oxidized LDL-specific immunoglobulins in murine models of atherosclerosis with a novel Enzyme-linked immunosorbent assay”. Ahmed Kayssi won the Award for Best Presentation by a Senior Resident for his presentation, “Drug-eluting balloon angioplasty versus non-stenting balloon angioplasty for peripheral arterial disease of the lower limbs”. Tricia Roy won the Alumni Award for Best Presentation by a Resident enrolled in the Surgeon Scientist Training Program for her presentation, “Magnetic Resonance imaging as a predictor of forces required to cross peripheral arterial lesions with a guidewire”. We were thrilled to welcome Dr. Melina Kibbe from Northwestern as the 5th K. Wayne Johnston Lecturer. She gave two outstanding talks entitled, “Sex bias in biomedical and clinical research” and “The ups and downs of translational research – one surgeon’s journey”. Prior to Research Day she was able to meet with faculty and residents at a Women in Vascular Surgery Luncheon and to participate in a Symposium on academic publishing where we were experience as Editor of JAMA Surgery proved invaluable.

Awards:

Dr. Oreopoulos’ leadership and expertise in surgical education was recognized with his appointment as the Director of Postgraduate Surgical Education for University Health Network. He was also awarded the 2015 Ross Fleming Award for Excellence in Surgical Education.

Dr. Kayssi, a final year vascular surgery resident in the U of T training program, was awarded a 2016 Detweiler Travelling Fellowship by the Royal College of Physicians & Surgeons of Canada. This Fellowship is intended to improve the quality of medical and surgical practice in Canada by enabling the recipient to visit other medical centres to study or gain experience in the use or application of new knowledge or techniques or to further the pursuit of a project relevant to clinical practice or research. Ahmed plans on visiting U.S. centres to gain experience in advanced, multidisciplinary limb salvage techniques and strategies.

Congratulations to Dr. Trisha Roy, for being awarded a 2016 Vanier Canada Graduate Scholarship! Trisha is a U of T Vascular Surgery resident who is currently enrolled in the Surgeon Scientist Training Program doing her PhD. The Scholarship provides $50,000 a year for 3 years. These awards were launched with the Vanier Canada Graduate Scholarships (Vanier CGS) program in 2008 to strengthen Canada’s ability to attract and retain world-class doctoral students and establish Canada as a global centre of excellence in research and higher learning. Vanier Scholars demonstrate leadership skills and a high standard of scholarly achievement in graduate studies in the social sciences and/or humanities, natural sciences and/or engineering and health. Drs. Graeme Wright and Andrew Dueck are to be thanked for providing outstanding mentorship.

Dr. Trisha Roy also won the Passareillo Award for first prize in the rapid paced poster competition at the International Society of MR Angiography Meeting in Cincinnati, OH.

This year at our annual Graduation Dinner the residents and fellows voted for the top teacher among the faculty surgeons and residents. Congratulations to Drs. Andrew Dueck (Sunnybrook Health Sciences Centre) and Ahmed Kayssi for winning the faculty and resident awards respectively.

Congratulations to Dr. Giuseppe Papia (Sunnybrook Health Sciences Centre) for being awarded the 2015 – 2016 Peters-Boyd Academy Clerkship Faculty Teaching Award for Clinical Teaching at Sunnybrook.

Sneha Raju and Ahmed Kayssi were selected out of 120 posters to present in the Poster Competition Championship Round at the 2016 Society for Vascular Surgery Vascular Annual Meeting, with Ahmed winning the Top Poster Presentation Award. This is the 2nd year in a row that a U of T student/resident has won this award!

U of T students and faculty won several awards at the 2015 Meeting of the Canadian Society for Vascular Surgery, including Dr. Leonard Tse who won the Cook Research Award, Dr. Graham Roche-Nagle who won the Provan Education Award and Mary Tao who won the Sigvaris Award for best venous paper.
The Hospital for Sick Children
Dr. Christopher A. Caldarone,
Surgeon-in-Chief

Division Heads:

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<th>Name</th>
<th>Specialty</th>
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<tr>
<td>Dr. Glen Van Arsdell</td>
<td>Cardiovascular Surgery</td>
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<td>Dr. Agostino Pierro</td>
<td>General and Thoracic Surgery</td>
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<td>Dr. James Drake</td>
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<td>Dr. Martin Gargan</td>
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<td>Dr. Christopher Forrest</td>
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<td>Dr. Martin Koyle</td>
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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. Comparators, where available, place the quality of care among the best in the world. SickKids has a world-renowned Research Institute (RI) with more than 480 faculty engaged in all types of basic, clinical, and educational research. SickKids is consistently more successful at the Canadian Institute for Health Research (CIHR) (the Canadian “National Institutes of Health or NIH equivalent”) than the national funding rate and receives more funding than the University of Western Ontario and Queen’s University combined. 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.

NEW STAFF:

New recruits include Dr. Augusto Zani (General and Thoracic Surgery) and Dr. Doug Cochrane (Neurosurgery).

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.

Dr. John Wedge continued his clinical practice this year and his ambassadorial role for SickKids International in looking at DDH outcomes with Drs. Kelley and Gargan. On June 24, 2016, Dr. Wedge was our Mercer Rang Lecturer and on the same day, the Division hosted Professor Andreas Roposch, a former fellow of Dr. Wedge’s from Great Ormond Street, UK. Professor Roposch gave the inaugural Wedge Lecture in his honor. On June 30, 2016, Dr. John Wedge hung up his scalpel.

PROMOTIONS and APPOINTMENTS:

Dr. Andrew Howard was promoted to Full Professor of Surgery.

This year the generosity of the Groves Family has enabled an endowed chair for the Division of Orthopaedics and the University of Toronto. Dr. Martin Gargan was appointed as the inaugural Harold and Bernice Groves Chair in Orthopaedics.

Dr. Chris Caldarone stepped down as the Watson Chair for Cardiovascular Disease and was endowed with the Dr. Robert B. Salter Chair in Surgery.

DIVISION OF CARDIOVASCULAR SURGERY

The Division of Cardiovascular Surgery continues to have a high profile in the international community of congenital heart disease. The Division recently began its engagement with the Society of Thoracic Surgeons Congenital Heart Surgery Database. Dr. Glen Van Arsdell conducted a 2 ½ day, hands-on congenital heart disease surgery course with 3D printed models which provided participants the opportunity to perform surgical procedures on anatomically precise 3D print models, including cases of tetralogy of Fallot, complete transposition of the great arteries with intact ventricular septum, two different forms of double outlet right ventricle and hypoplastic left heart syndrome. Dr. John Coles was awarded the Ontario Centre of Excellence Award for 2015. Dr. Coles is collaboratively leading a research consortium organized to discover and develop new treatments for childhood dilated cardiomyopathy (DCM), which is the most common form of heart muscle disease in...
children and, in advanced cases, can only be treated by heart transplantation. This research project was selected for funding and was among the 10 projects funded across Canada through Blueline Biosciences. The project received $210,000 in funding for Integrin-Linked Kinase (ILK) as a novel cardiac target. Dr. Chris Caldarone continues in his role as U of T Departmental Chairman of Cardiovascular Surgery and Surgeon-in-Chief and Chief of Perioperative Services at Sick Kids, continues his CIHR-funded research on pulmonary vein stenosis, and serves as an Associate Editor for the Journal of Thoracic and Cardiovascular Surgery. Dr. Osami Honjo continues to be heavily involved in the area of studying Fontan patients across the age spectrum with and without failing circulations to develop a computational model that will aid in the development of a new mechanical support device to bridge patients to cardiac transplantation. Dr. Edward Hickey shares his expertise around the world as an invited speaker at many venues. This year he drew innovative parallels between the National Aeronautics and Space Administration “threat and error” model and pediatric cardiac surgery.

**DIVISION OF GENERAL AND THORACIC SURGERY**

Dr. Georges Azzie received the Bruce Towee Award for Outstanding Contribution for Undergraduate Surgical Education. Dr. Azzie was also awarded the Chief Surgical Resident’s Award for the Best Teacher. Dr. Azzie continues to promote development of a surgical curriculum at the School of Medicine of the University of Botswana. Dr. Priscilla Chiu is the Principal Investigator and Scientific Director of the Thymocytes and Thymus Cells (TTC) Biobank at the SickKids Research Institute. Along with her ongoing international collaboration on Congenital Diaphragmatic Hernia (CDH) research she is the surgical director of both the CDH and TEF/EA multidisciplinary clinics at The Hospital for Sick Children. She is currently the Program Chair of the Canadian Association of Paediatric Surgeons (CAPS). Dr. Annie Fecteau is conducting clinical research on the consent process and is developing a transitional program for children with congenital surgical anomalies. She now serves as the Surgeon Champion for the Pediatric National Surgical Quality Improvement Program initiative. Dr. J. Ted Gerstle’s funded research program, MR-guided High Intensity Focused Ultrasound in the treatment of high risk neuroblastoma, is nearing completion of the first part of the study; within the academic year, a phase I clinical study should be started. The work that he is doing with the development of laparoscopic force-sensing instruments will be entering into clinical testing during this academic year. Dr. Sharifa Himidan continues work on international initiatives led by the U of T 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 RCPSC Specialty Exam Board in pediatric surgery. She is enrolled to obtain an MBA from D’Amore McKim School of Business, Boston NorthEastern University. Dr. Jack Langer serves as the Past-President of the Canadian Association of Paediatric Surgeons (CAPS). Dr. Langer received the Votteler Visiting Professorship from the University of Texas Southwestern. 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. Agostino Pierro continues as Fellowship Program Director for the Division. His work as Senior Associate Scientist in the Sickkids Research Institute focuses on necrotizing enterocolitis and randomized controlled trials (RCTs). He serves on the boards of the European Pediatric Surgeons’ Association (EUPSA) and the Canadian Association of Paediatric Surgeons (CAPS). Dr. Paul Wales received the Stanley J. Dudrick Research Scholar Award from the American Society for Parenteral and Enteral Nutrition (ASPEN). Dr. 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. Augusto Zani has been appointed to the Division as Scientist Track Investigator. He is member of the Developmental and Stem Cell Biology at PGCRL and his research projects are on stem cell therapy for pulmonary hypoplasia and intestinal tissue engineering.

**DIVISION OF NEUROSURGERY**

Dr. James Drake has been appointed President-Elect, American Society for Pediatric Neurosurgeons, United States. In his role as Director, Image Guided Innovation and Therapeutic Interventions (CIGITI), he continues to encourage innovation and leading edge technology with his CIGITI colleagues and students under his supervision. He heads a multidisciplinary group within the MR-guided High Intensity Focused Ultrasound project with CIGITI in the treatment of bone tumors. He has been instrumental in the process and acquisition of the necessary equipment and expertise required to offer MRI-Guided High Intensity Focused Ultrasound to patients onsite. Dr. James Rutka was the recipient of the 2015 Margolese National Brain Disorders prize. The Margolese National Brain and Heart Disorders prizes were created by an estate gift made to the University of British Columbia by Leonard Herbert Margolese. This prize is awarded annually to a Canadian physician or scientist who has made outstanding contributions to the treatment, amelioration, or cure of brain disorders. He continues to travel the world sharing his expertise and knowledge or tumors and epilepsy as an invited speaker. He maintains his role as U of T Department Chairman of Surgery, and Editor of the Journal of Neurosurgery. Dr. Peter Dirks was announced as the leader of a four year, $11.7 million Stand Up to Cancer grant provided by Stand Up To Cancer Canada, Genome Canada, Canadian Institutes of Health Research, Cancer Stem Cell Consortium, and Ontario Institute for Cancer Research. The award will fund research to better understand stem cells that allow brain tumors in children and adults. The project includes Dr. Sam Weiss (University of Calgary) as co-lead and Dr. Michael Taylor as a principal investigator. Dr. Abhaya Kulkarni continues to be heavily involved in the success of the Hydrocephalus Clinical Research Network (HCRN) leading the group in two projects focused on Endoscopic Third Ventriculocopy (ETV) vs. Shunts and ETV treatments. Most recently, he and his team received RO1 NIH funding for their study “Neurocognitive outcomes and changes in brain and CSF volume after treatment of post-infections hydrocephalus in Ugandan infants by shunting or ETV/CPC: a randomized prospective trial”. This is in collaboration with Harvard, Penn State and Uganda. The grant is for $592K USD. As Program Director, Neurosurgery Residency, Division of Neurosurgery, he continues to provide leadership to our residents. Drs. Drake and Kulkarni continue to be active members of the NRCRN with numerous projects and reports on hydrocephalus patients. The group has expanded to 9 centers this past year. Dr. Michael Taylor was awarded the Department of Surgery’s Lister Prize at this year’s Galiey and Gordon Murray Lectureship Dinner. The prize is given for demonstrated exceptional; productivity at an international level. He continues to share his expertise around the world as an invited speaker at many venues. In March 2016, we welcomed Dr. Douglas Cochrane to the Division of Neurosurgery. Dr. Cochrane is the former Chief of Pediatric Neurosurgery at B.C. Children’s Hospital and joins the division for 15 months as a clinical Neurosurgeon with a focus on patient safety and quality. Dr. Cochrane has served in many important roles including Chief of Surgery at B.C. Children’s Hospital and more recently as Vice-President of Medical Affairs and Quality at the Children’s & Women’s Health Center of British Columbia. At a provincial level he has served as Patient Safety and Quality Officer for British Columbia, Ministry of Health Services and chair of the B.C. Patient Safety and Quality Council, Province of British Columbia. It is our expectation that Doug will enhance our quality and safety program within the Division.
DIVISION OF ORTHOPAEDIC SURGERY

The spine team of Drs. Reinhard Zeller and Steve Lewis continue to take on the most complex cases and are investigating movement and balance in spinal deformity, looking at innovative treatment approaches. Dr. Zeller also serves as the President of the Canadian Paediatric Spine Society. The Division is now actively recruiting for another Surgeon to join the spine team. The neuro muscular team of Drs. Unni Narayanan and Mark Camp continue with their clinical and research programs in cerebral palsy. Dr. Camp in addition to caring for his CP patients continues with spine work and his ethics research. Dr. Narayanan is now the President Elect of the American Academy of Cerebral Palsy & Developmental Medicine. Dr. Murnaghan has a very busy practice in sports medicine and in addition to clinical trials and education research, continues in the role of Divisional Clinical Fellowship Coordinator for the University. Dr. Murnaghan received the 2016 Education Development Fund Award “A qualitative assessment of the role of bootcamps in junior residency”. Our presence in the Peter Gilgan Institute continues to be spearheaded by Drs. Sevan Hopyan and Simon Kelley with work on limb bud development and bone regeneration. They also have unique clinical practices, Dr. Hopyan in tumours and brachial plexus and Dr. Kelley in hip disorders and limb reconstruction. Dr. Kelley received three awards this year: Best Basic Science Abstract, International Limb Lengthening & Reconstruction Society; The Young Investigator Award, American Society for Bone & Mineral Research; Founder’s Medal, Canadian Orthopaedic Research Society. Dr. John Wedge continued with his clinical practice this year and his ambassadorial role for SickKids International and in looking at DDD outcomes with Drs. Kelley and Gargan. Dr. Andrew Howard continues to run a busy general practice along with the multidisciplinary Bone Health Clinic. His research continues to focus on injury prevention and he also continues his international work.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

It has been a stellar year for the Division of Plastic and Reconstructive Surgery, the largest group of 8 full-time Pediatrics plastic surgeons in North America with a focus on transitions, continuing medical education and innovation. Following his retirement from active clinical practice in 2015, the 37 year career of Dr. Ron Zuker was celebrated at the 12th Annual Lindsay-Thomas Pediatric Plastic Surgery symposium in June highlighted by a packed program featuring former follows from all points of the globe, including this year’s Vale lecturer, Professor Fu-Chan Wei from Taipei, Taiwan. This coincided nicely with the publication of the third edition of his book, Principles and Practice of Pediatric Plastic Surgery with co-editors, Michael Bentz and Bruce Bauer. This is considered to be the bible of Pediatric Plastic and Reconstructive Surgery and is unique in that all 9 members of the division have significant contributions to the 2 volume tome. Dr. Greg Borschel has been selected as visiting professor for the American Society of Plastic Surgery for 2016-2017. Dr. Howard Clarke successfully completed his year-long presidency of the Canadian Society of Plastic Surgeons with the 70th Annual Meeting in Ottawa and now takes on the role of Chair for the newly formed international collection of societies of plastic surgery ICOPLAST. Dr. Clarke also completed his first year as Chair of the Promotions Committee in the Department of Surgery, at the University of Toronto. Surgeon scientist PhD trainee and plastic surgery resident Dr. Dale Podolsky (supervisors Dr. Christopher Forrest and James Drake) was awarded the prestigious Vannier Scholarship for his innovative work developing a robotic approach to cleft and craniofacial surgery and creation of cleft simulator for surgical education. Dr. Karen Wong was successful in the latest CIHR competition with a 3 year grant awarded for development of a patient-reported measure on facial differences, FACE-Q with Dr. Anne Klassen (McMaster). SickKids continues to be the go-to destination for post-graduate education in Pediatric Plastic Surgery with a record number of international fellow applications in the areas of Pediatric Plastic Surgery and Pediatric Craniofacial Surgery. The Pediatric Burn Program under the supervision of Dr. Joel Fish is the only ABA certified Pediatric burn program in the country. Under his watch, burn volumes have increased 100% over the past 5 years yet length of stay and total cost per patient have diminished significantly due to a focus on out-patient care. For his innovative work in this area, Dr. Fish was honoured with the first annual Ronald M. Zuker award given to a staff, resident or fellow in the Division of Plastic and Reconstructive Surgery who best emulates Ron’s concepts of ingenuity, innovation and imagination. Dr. Ron Zuker was appointed as Director of Alumni Relations. Dr. Zuker has a remarkable educational pedigree and has trained hundreds of fellows and residents in the 37 years working at the Hospital for Sick Children. Dr. Zuker will be tasked with connecting with alumni to help with fund-raising, networking and divisional profile and create a sense of community with all of the remarkable people who have passed through the gates of our division at the University of Toronto.

DIVISION OF UROLOGY

Dr. Joana Dos Santos, a Brazilian-trained pediatrician, completed the first “medical pediatric urology” fellowship in Canada and joined us as a full-time faculty member. She will be commencing a Master’s program in translational Science and has already developed an expertise in complex bowel-bladder dysfunction. Dr. Frank Papanikilalou has completed his first year with us as our first part-time associate. Dr. Papanikilalou is in active practice at Credit Valley. Dr. Roberto Iglesias-Lopes completed a very productive year with us as visiting faculty, bringing innovative techniques and skills from Sao Paulo, Brazil. 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 U of T 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. Bagli received the AUA Research 2015 “Rising Stars Grant Competition” at the American Urological Association. Dr. Armando Lorenzo continues to broaden his expertise in pediatric urological oncology and fertility preservation in these complex patients. He recently served as faculty at the American Urological Association annual board review course and was the annual Visiting Professor for the Urological Society of Australia and New Zealand. Dr. Lorenzo won the 2015 Top 10 Reviewer Certificate Award, Journal of Pediatric Urology in recognition of exceptional work as a reviewer of submitted papers to the journal in 2015. Dr. Walid Farhat received the Gordon McIvor Award for Best Presentation at the Pediatric Urologists of Canada Scientific Meeting as well as the Best Video Abstract at the North American Society for Pediatric and Adolescent Gynecology (NASPAG). Dr. Farhat also received the AW Bruce Teaching Award from the University of Toronto. Dr. Farhat successfully ran his 9th 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). In coordination with nephrology, the “stone clinic” that they have developed continues to expand and provide valuable service. Along with Dr. Rutka, he visited the Ukraine this past year, delivering surgical and didactic education. In addition, he will commence a Master’s program in Law while maintaining his fulltime practice. Dr. Martin Koyle, Division Chief and Women’s Auxiliary Chair in Urology and Regenerative Medicine, completed the highly competitive research-based Masters of Science in Quality Improvement and Patient Safety at the Institute of Health Policy.
Management and Evaluation (IHPME) at the University of Toronto and was the invited to remain on their faculty in addition to his administrative and clinical roles within the University and SickKids. He is currently editing his fifth textbook.

EDUCATION:

The Department of Surgery continues to have an active education program training 39 clinical fellows and 139 residents originating from 22 countries worldwide. The Divisions hosted many visiting observers from countries such as: Colombia, United Kingdom, USA, China, France, Iran, India and Japan.

The Division of Cardiovascular Surgery conducted a 2 ½ day hands-on congenital heart disease surgery course in January with 3D print models which provided participants the opportunity to perform five surgical procedures on their own 3D print models.

The Division of General and Thoracic Surgery held the Congenital Diaphragmatic Hernia (CDH) Workshop in September. On June 10th, Dr. Olutoye Oluyinka was the visiting professor for the Annual Simpson Ein Lecture.

Neurosurgery hosted the 2nd Annual Jack Beqaj Lecture on September 30th, 2015 with invited speaker Dr. William Bingaman from the Cleveland Clinic.

On Friday, October 30th, 2015, the Division of Orthopedics was pleased to welcome Dr. John Herzenberg from Baltimore, Maryland as the Robert B. Salter Visiting Professor. On June 24th, 2016, Dr. Wedge was our Mercer Rang Lecturer and on the same day the Division hosted Dr. Wedge’s visiting professor for the Interhospital Urology Rounds in June.

RESEARCH:

The department received numerous awards totaling approximately $13,500,000.00 for year, supporting a variety of projects/grants. There have been 319 new publications this year alone and our staff have been invited and presented over 364 presentations at venues and associations around the globe. The Department is engaged in a wide variety of clinical and basic research supervising 45 research fellows, 19 Masters Students, and 29 PhD students.

Division of Cardiac Surgery

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

Publications


Invited Visits


Caldarone, Christopher Anthony. American Heart Association, Florida, United States, Nov. 2015. Invited Lecturer: HLHS trials: BT shunt, sano shunt or hybrid?


Honjo, Osami.  Cardiology Rounds, Tokyo Women’s Medical University, Tokyo, Japan, Sept 16, 2015.  Invited Lecturer: Current status in pediatric heart transplantation, ventricular assist device and extracorporeal life support.

Honjo, Osami.  46th Annual meeting of the Japanese Society for Cardiovascular Surgery, Nagoya, Japan, Feb 12, 2016.  Invited Lecturer: 1) Ongoing strategic refinement and contemporary clinical outcome of stage I palliation for hypoplastic left heart syndrome. 2) What defines an academic surgeon?


Van Arsdell, Glen Scott.  EACTS Annual Meeting, Amsterdam, Netherlands, Oct 3, 2015.  Presenter: Is there a “sweet spot” - does timely decision making improve outcomes?


Research and Investigations

Death after Circulatory Death Transplant Project.  James Cummings Foundation.  Honjo O.  ($150,000.00 CAD  May 2016 - Apr 2018).


Development of Computational Models to Aid in the Diagnosis and Treatment of Failing Fontan Circulation.  EMH Seed.  Honjo O, Roche SL, Amon C.  ($135,000.00 CAD  2016 - 2018).


Divison of General Surgery

Dr. G.R. Azzie Associate Professor
Dr. P.P. 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
Dr. A Zani  Assistant Professor

Publications


Zhao JY, Chiu PP, Dasgupta R, Jen HC, Rothstein DH. Defining the Need for Transitional Care From Pediatric to Adult Surgery for Young Adult Patients With Surgically Corrected Congenital Anomalies. JAMA Surg. 2016 Apr; 151(4):393-4.

Invited Visits


Azzie, Georges R. Buffalo Children’s Hospital, Buffalo, New York, Nov. 10, 2015. Visiting Professor: Rounds on Global Surgery.


Azzie, Georges R.  International Paediatric Endosurgery Congress (IPEG), Hukuoka [Fukuoka] Jigyohama, Chuo-Ku, Japan, May 23, 2016. Invited Speaker: 1) The Educational Importance of Defining Surgical Expertise. 2) Analysis of Motion in Laparoscopy: The Deconstruction of an Intra-corporeal Suturing Task. 3) Education in Minimally Invasive Surgery: Certification: Where are we, and where should we go?


Research and Investigations


E-Consent Tool for Supracondylar Fractures. The Hospital for Sick Children. Fecteau A, Camp M. ($10,000.00 CAD 2016 – present).


Honours and Awards

Azzie, Georges R: Bruce Tovee Award. Outstanding Contribution for Undergraduate Surgical Education, Dept of Surgery, Faculty of Medicine. May 2016.

Langer, Jacob Charles: Pediatric Surgery Resident Teaching Award, The Hospital for Sick Children. 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


Weckesser-Reya RJ, Rusert JM, Taylor MD, Cho YJ, Packer RJ, Brown R, Roed BR.


Invited Visits


Dirks, Peter Benjamin. Insights into Pediatric Brain Tumor Biology Meeting, Dusseldorf, Germany, Oct 1, 2015. Invited Lecturer: Defining glioblastoma stem cell self renewal and differentiation competency.


Drake, James M. Canadian Neurosurgical Innovation Meeting, Toronto, Ontario, 2016. Speaker: USE OF SMART MATERIALS FOR IMAGE GUIDED NEURO-ENDOSCOPIC ROBOTICS.


Drake, James M. International Symposium on Paediatric Surgical Research in Dublin, Dublin, Ireland, Sept 26, 2015. Presenter: Non-Invasive Ablation of Rabbit Fetal Tissue In Utero with MRgHIFU.


Kulkarni, Abhaya V. University College London, National Hospital Queens Square, London, United Kingdom, Mar 2016. Visiting Professor: Posterior fossa anatomy and surgical approaches.


Rutka, James T.  Barrow Neurological Institute, Phoenix, Arizona, Jan 15, 2016.  Sally Harrington Goldwater Visiting Professor: Neurosurgical Management of Brainstem Tumors.


Rutka, James T.  American Association of Neurological Surgeons, Chicago, Illinois, Apr 29, 2016.  Invited Speaker: 1) Cortical Stimulation Mapping: How we do it. 2) University of Toronto Neurosurgeon as Editor-In-Chief, as Chair of Neurosurgery, and as Chair of Surgery.


Rutka, James T.  Ukraine Mission – Kyiv Neurosurgical Institute, Kyiv, Ukraine, Jun 21, 2016.  Invited Speaker: 1) Neurosurgical management of encephaloceles in children. 2) Recent advances in the management of brainstem tumours. 3) Concussion from sports injuries: what is the optimum management. 4) Spinal fractures: Diagnosis and management. 5) How to publish a scientific manuscript in the neurosurgical literature.

Rutka, James T.  Ukraine Mission – Lviv National Medical University, Lviv, Ukraine, Jun 23, 2016.  Invited Speaker: 1) Acute neurosurgical management of head injuries. 2) Neurosurgical management of encephaloceles. 3) Recent advances in the management of brainstem tumours. 4) How to publish a scientific manuscript.


Taylor, Michael David.  Recent Insights into Pediatric Brain Tumor Biology, Heinrich-Heine University, Dusseldorf, Germany, Oct 1, 2015.  Invited Lecturer: Macrophage Mimicry Mediates Medulloblastoma Metastases.


Taylor, Michael David.  Huashan Hospital, Fudan University, Shanghai, China, Dec 15, 2015.  Invited Lecturer: Molecular Classification of Medulloblastoma, and Biological Divergence at Recurrence.


Taylor, Michael David.  4th Latin American Course in Pediatric Neurosurgery, Guaruja, Brazil, Mar 2, 2016.  Invited Lecturer: 1) Molecular Biology of Childhood Posterior Fossa Tumors. 2) Case Presentations: Posterior Fossa Tumor. 3) Clinical Implications of Brain Tumor Molecular Biology.


Taylor, Michael David.  Lady Davis Research Institute Distinguished Speaker Series, Montreal, Quebec, Apr 5, 2016.  Invited Lecturer: Heterogeneity Through Space and Time Drive the Clinical Behaviour of Medulloblastoma.

Taylor, Michael David.  International Conference on Brain Tumor Research and Therapy, Okinawa, Japan, Apr 13, 2016.  Invited Lecturer: Medulloblastoma Metastasizes Through the Blood and is Mediated by CCL2.

Taylor, Michael David.  Texas Children’s Hospital, Houston, Texas, Apr 21, 2016.  Invited Lecturer: Heterogeneity Through Space and Time Drive the Clinical Behavior of Childhood Brain Tumors.


Research and Investigations

BTRC Pediatric Brain Tumor Bank and Database. h.r.a.i.n.child. Rutka JT. ($25,000.00 CAD 2015 – 2016).

Cancer's sweet tooth: PINK1 negatively regulates glycolysis in GBM. h.r.a.i.n.child. Rutka JT. ($25,000.00 CAD 2015 – 2016).

Discovery of novel chemotherapeutic agents active against metastatic medulloblastoma. h.r.a.i.n.child. Taylor MD. ($24,883.00 CAD 2015).


Functional Genomic Screen to Identify Drivers of Human GBM. Terry Fox Research Institute (TFRI). Dirks PB. ($1,328,820.00 CAD Jul 2015 – Jun 2020).


Validation of Structural Variants in Medulloblastoma Using Long Read Sequencing Technology. McLaughlin Center for Molecular Medicine – Toronto. Taylor MD. ($50,000.00 CAD 2015 – 2016).

Validation of Structural Variants in Medulloblastoma Using Long Read Sequencing Technology. McLaughlin Center for Molecular Medicine – Toronto. Taylor MD. ($50,000.00 CAD 2016 – 2017).
Honours and Awards


Taylor, Michael David: Lister Prize in Surgery. Department of Surgery, University of Toronto, Faculty of Medicine. 2016.

Division of Orthopaedics

Dr. M. Camp
Assistant Professor

Dr. M. Gargan
Associate Professor (Division Head)

Dr. S. Hopyan
Associate Professor

Dr. A. Howard
Professor

Dr. S. Kelley
Assistant Professor

Dr. M.L. Murnaghan
Assistant Professor

Dr. U.G. Narayanan
Associate Professor

Dr. J.H. Wedge
Professor

Dr. R. Zeller
Associate Professor

Publications


Holton CS, Kelley SP. The Response of Children to Trauma. Orthopaedics and Trauma. 2015 Dec;29(6):337-349.


Invited Visits


Camp, Mark. Ontario Association of Children’s Rehabilitation Services, Toronto, Ontario, Nov 3, 2015. Invited Speaker: Hip Surveillance for Children with Cerebral Palsy: Why Is This Important, Who’s Already Doing It, and How can We Do This in Ontario?

Camp, Mark. Canada Medical Education, Mississauga, Ontario, Jan 13, 2016. 1) Invited Lecturer: Upper Extremity Paediatric Trauma. 2) Invited Faculty: Orthopaedic Resident Review in Paediatrics Course.

Hopyan, Sevan. Wallingford Laboratory Retreat, Austin, Texas, Aug 14, 2015. Invited Speaker: Morphogenesis in 4D.


Hopyan, Sevan. Institut de recherches cliniques de Montréal Lecture Series, Montreal, Quebec, Nov 9, 2015. Invited Speaker: Forces that move cells in the limb bud and branchial arch.


Research and Investigations


Getting to School: An Investigation of Household Experiences with Disability in Childhood. The Hospital for Sick Children, Norman Saunders Complex Care Initiative Grant. Howard A, Balinung R, Ross T. ($17,000.00 CAD 2016).

IMPACCT: Infrastructure for Musculoskeletal Paediatric Acute Care Clinical Trials. POSNA. Howard A, Janicki J, Wright J. ($30,000.00 USD Jan 2016 – Jan 2017).

Improving the informed consent process in paediatric trauma using an eConsent tool. The Hospital for Sick Children, Mary Jo Innovation Fund. Camp M. ($10,000.00 CAD Apr 2016 – ).


Honours and Awards


Division of Plastic and Reconstructive Surgery

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Dr. G.H. Borschel</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. H. Clarke</td>
<td>Professor</td>
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<tr>
<td>Dr. K. Davidge</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. J.S. Fish</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. D. Fisher</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. C. Forrest</td>
<td>Professor (Division Head)</td>
</tr>
<tr>
<td>Dr. J. Phillips</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. K. W-Y Wong</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. R. Zuker</td>
<td>Professor</td>
</tr>
</tbody>
</table>

Publications


Invited Visits

Borschel, Gregory H. Beijing, China, Aug 2015. Invited Speaker: Novel Approaches to the Study of Speech and Facial Motor Control using MEG.

Borschel, Gregory H. St. Andrew’s Centre for Plastic Surgery and Burns, Essex, United Kingdom, Nov 7, 2015. Keynote Speaker: 1) Corneal reinnervation and cutting edge research developments in facial reanimation. 2) Post surgical problems and how to address them. 3) Paediatric Facial Reanimation.


Fish, Joel Steven. Toronto Professional Firefighters - Prevention Division, Toronto, Ontario, Sept 16, 2015. Invited Speaker: Learn Not to Burn.


Fisher, David. Stanford School of Medicine, Stanford, California, Mar 1, 2016. Visiting Professor: Unilateral cleft lip repair, history and current practice.


Zuker, Ronald. Ichilov Hospital, Tel Aviv University, Tel Aviv, Israel, Nov 24, 2015. Invited Speaker: 1) Update on Pediatric Plastic Surgery at SickKids. 2) What’s New in Unilateral, Bilateral Facial Paralysis Reconstruction.


Zuker, Ronald. American Society for Peripheral Nerve, Scottsdale, Arizona, Jan 7, 2016. Panel Moderator: Surgeon as Perpetual Learner - Patient cases I have learned the most from.


Research and Investigations


Division of Urology

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

Publications


Invited Visits


Lorenzo, Armando J. Urological Society of Australia and New Zealand, Gold Coast, Queensland, Australia, Apr 17-18, 2016. Invited Speaker: 1) Novel management options for complicated duplex systems. 2) Fertility preservation in pediatric cancer management and disorders of sexual differentiation. 3) Transitional Urology and the future of pediatric urology - challenges in the twilight zone of growing up. 4) USANZ Opening Plenary - State of the Art. 5) PERSPECTIVES: Decision regret - the overlooked cost of decision making and the implications of too many choices. 6) Botulinum toxin in paediatrics. 7) Innovations in the management of Wilm’s Tumour.

Lorenzo, Armando J. University of Melbourne, Royal Victoria Children’s Hospital, Australia, Apr 21, 2016. Visiting Professor: Fertility Preservation in Pediatric Uro-Oncology.


Research and Investigations


Honours and Awards


Hockey Team
Mount Sinai Hospital

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

General Surgery

New Faculty Member
Savtaj Brar, Surgical Oncology

Successful Continuing Appointment Reviews
Anand Govindarajan

Anand Govindarajan, surgical oncology, conducts outcomes research in collaboration with his scientific mentor, Nancy Baxter.

Zane Cohen led the General Surgery Division’s commitment to host a Syrian refugee family, an effort to which all faculty and trainee members have contributed in some manner.

Research that directly informs health care policy - Erin Kennedy in optimization of the management of primary rectal cancer

Orthopaedics

David Backstein led the Integration, Advocacy and Outreach group, which highlighted as priorities the advocacy for funding for our specialty based on solid costing evidence, ensuring our prominent role in the Toronto Central LHIN is maintained, expansion of CME offerings and enhanced engagement with alumni, primary care and allied health personnel.

Urology

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

Dr. Kirk Lo continued his 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.

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. This past year he made the important discovery of a prostate cancer lethal gene.

Division of General Surgery

Dr. Savtaj S. Brar  Assistant Professor
Dr. Zane Cohen  Professor
Dr. Rebecca Gladdy  Assistant Professor
Dr. Anand Govindarajan  Assistant Professor
Dr. Robert Neil Gryfe  Assistant Professor
Dr. Erin D. Kennedy  Associate Professor
Dr. Helen M. MacRae  Professor
Dr. Judith Andrea McCart  Associate Professor
Dr. Robin S. McLeod  Professor
Dr. Carol Jane Swallow  Professor (Division Head)

Publications


Swallow, Carol Jane. The Biannual Conference of The Israel Society of Surgical Oncology, Caesarea, Israel, Feb 10-11, 2016. Invited Speaker: 1) Pelvic exenteration for recurrent rectal cancer. 2) Updates in the management of GIST.


Research and Investigations
A Patient Centered Approach to Improving the Surgical Experience at the University of Toronto. Canadian Institutes of Health Research. Kennedy ED. ($15,000.00 CAD Jun 2016 – Jun 2017).


Genetics of Leiomyosarcoma - are there distinct subtypes? McLaughlin Centre, University of Toronto. Gladdy R, Shlien A, Dickson B. ($50,000.00 CAD May 2016 – Apr 2017).

Honours and Awards
Brar, Savtaj Singh: Nicolas Colapinto Teaching Award, 38th Annual Assembly of General Surgeons, University of Toronto. 2015.

Govindarajan, Anand: Bernard Langer Surgeon Scientist Award, Department of Surgery, University of Toronto. Made annually to an outstanding graduate of the Surgeon Scientist Program in the Department of Surgery who shows the greatest promise for a career in academic surgery. May 2016.

McLeod Robin: Honorary Member, Canadian Society of Colon and Rectal Surgery. 2016.

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 Associate Professor
Dr. T. Willett Assistant Professor
Dr. J.S. Wunder Professor

Publications


Invited Visits


Ferguson, Peter.  American College of Veterinary Surgeons Annual Meeting, Nashville, Tennessee, Oct 23, 2015.  Invited Speaker: Sarcomas in Humans: Where we are now and where we need to go (and how do we get there?)


Gross, Allan.  Sociedad Antioquena De Ortopedia Y Traumatologia (SAOT), X International Hip & Knee Course, Medellin, Colombia, Oct 2, 2015.  1) The role of cages in revision arthroplasty.  2) THR for dysplasia.  3) Trabecular metal augments in acetabular revision.  4) Extra talk - Standard exposure vs extensile exposure.  5) Extra talk - Total hip revision: A day in the life of....


Gross, Allan.  Zimmer Biomet Institute, Hamburg, Germany, Feb 2016.  1) ZBI What I have learned in thirty years of revision surgery.  2) Revising the revision algorithm.  3) Management of pelvic discontinuity.  4) Management of type IV femoral defects.  5) My most difficult cases.


Research and Investigations

Division of Urology

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

Publications


Zlotta, Alexandre: Bladder Cancer Awareness.

2) What is the most important research finding/question in bladder cancer?

Zlotta, Alexandre: Non-availability of BCG.

UNIVERSITY OF TORONTO 100 DEPARTMENT OF SURGERY 2015-2016 Annual Report

Invited Visits


Zlotta, Alexandre: Urology Research Society (URS), Tel Aviv, Israel, Sept 17-18, 2015. Speaker: 1) Germline SNPs in the Kallikrein 6 region predispose for aggressive prostate cancer. 2) What is the most important research finding/question in bladder cancer?

Zlotta, Alexandre: European Association of Urology, Munich, Germany, Mar 12-13, 2016. Chair: 1) Cystectomy: Optimising perioperative care. 2) Screening and active surveillance – where are we now? ESLU.

Zlotta, Alexandre: European Association of Urology, Munich, Germany, March 12, 2016. Speaker: Screening and active surveillance – where are we now? ESLU.

Zlotta, Alexandre: European Association of Urology, Munich, Germany, October 15, 2015. Speaker: Management of BCG Failure and/or Non-availability of BCG.

Zlotta, Alexandre: European Association of Urology, Munich, Germany, March 12, 2016. Speaker: Management of BCG Failure and/or Non-availability of BCG.


Research and Investigations


Marsh Book Signing

Distinguished Service to Joint Center for Bioethics (JCB) Award.
This has been a busy year in the Department of Surgery at North York General Hospital. In March, our hospital went through a four day accreditation with Accreditation Canada. The hospital was accredited with exemplary standing. There were 2,500 criteria used to evaluate the hospital and North York General Hospital met 99.8% of the requirements.

In the Department of Surgery our Breast Program underwent its own accreditation with the NSABP. Our hospital became the first accredited Breast Program in Canada and only the second program to be accredited outside of the United States.

The Department of Surgery at North York General Hospital implemented the NSQIP program in January of this year. The medical lead for this is Dr. David Smith. Dr. Smith and his team have been auditing cases from each of the surgical divisions looking for areas for potential quality improvement. For the second year in a row, North York General Hospital was noted by Cancer Care Ontario to have the best surgical wait times for cancer cases in the province of Ontario.

The NYGH Preoperative Clinic was restructured in 2015 and we developed guidelines to reflect best practices for perioperative assessment. This resulted in a 40% reduction in patient visits and patient testing. The NYGH guidelines were adopted for the provincial Choosing Wisely campaign.

In Breast Oncology we implemented a program for the DIEP free flap reconstruction after breast cancer surgery. This is a joint venture between the Divisions of Plastics and General Surgery.

Our division of Plastic Surgery was selected to be the first Canadian site in a ongoing multi-centered trial looking at outcomes in peripheral nerve grafting (RANGER TRIAL).

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

Recruitment

Dr. Nicole Golda – Urology
Dr. Usmaan Hameed – General Surgery
Dr. Natalya Zhang – General Surgery

Awards and Recognition

Dr. Stan Feinberg -
The Marcus Burnstein award for Best Presentation at the annual Update in General Surgery
Dr. Fahima Osman – Toronto Citizen of the Year award
Dr. Peter Stotland – Barry Tobe award for surgical innovation
Dr. Natalya Zhang – Family Practice Teaching award

Division Heads:

General Surgery – Dr. Nancy Down
Orthopedics – Dr. Hossein Mehedian
Plastics – Dr. Bernd Neu
Urology – Dr. Roger Buckley

Division of General Surgery

Dr. Yasser Botros
Dr. Nancy Down (Division Head)
Dr. Stan Feinberg
Dr. Ian Forrest
Dr. Usmaan Hameed
Dr. Simon Ju
Dr. Neelesh Jain
Dr. Donna Mcritchie
Dr. Fahima Osman
Dr. Brian Pinchuk
Dr. David Smith
Dr. Peter Stotland
Dr. Natalya Zhang

Division of Orthopaedics

Dr. Robert Brock
Dr. Gladys Chan
Dr. Dale Dantzer
Dr. John Faulkner
Dr. Shawn Garbedian
Dr. Hossein Mehedian (Division Head)
Dr. Christopher John Peskun
Dr. Edward Rumble

Division of Plastics

Dr. Yasser El-Sheikh
Dr. Mary-Helen Mahoney
Dr. Bernd Neu (Division Head)
Dr. Sean Rice
Dr. Petra Schiller
Dr. Ron Somogyi

Division of Urology

Dr. Roger Buckley (Division Head)
Dr. Stanley Flax
Dr. Nicole Golda
Dr. David Hajek
Dr. Jeff Noakes
Dr. Les Spevack
Publications


Honours and Awards

Somogyi, Ron Barry: Marjory Morphy Award for Research Support, Medical Staff Association, North York General Hospital. 2016.
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 primarily through our relationship with the Fitzgerald Academy at St. Michael's Hospital. A surgical teaching clinic was established this past year with the assistance of the Department of Medical Education and Scholarship at St. Joe’s. This 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. Preliminary feedback indicates that this clinic experience provides an excellent longitudinal educational experience that prepares trainees for transition to surgical practice. This and other surgical initiatives at St. Joseph’s are helping to prepare both our educators and trainees for the Royal College of Surgeons transition to a Competency by Design (CBD) educational framework.

Division Heads

<table>
<thead>
<tr>
<th>Division</th>
<th>Name</th>
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<tbody>
<tr>
<td>General Surgery</td>
<td>Paul Sullivan</td>
</tr>
<tr>
<td>Thoracic Surgery</td>
<td>Maurice Blitz</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>Amr El Maraghy</td>
</tr>
<tr>
<td>Plastic Surgery</td>
<td>Craig Fielding</td>
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Recruitment

A new HPB surgeon has just been hired.

Departures

There were no retirements from the surgical program in the past fiscal year.

Education

Dr. Maurice Blitz is director of the Surgical Foundations Program at the University of Toronto.
Dr. Shiva Jayaraman was director of this year’s Canadian Surgical Forum held in Toronto.
Dr. Chris Compeau is chair of the Thoracic Surgery Royal College examination committee.
Dr. Michael Ko was a recipient of the Department of Medical Education and Scholarship (DMES) teaching award for postgraduate medical education at St. Joseph’s Health Centre in 2015-16.

Divisional teaching award winners 2015-16:

- General/thoracic surgery – Dr. M. Ko
- Urology – Dr. T. McLean
- Plastic surgery – Dr. K. Wanzel
- Orthopedic surgery – Dr. A. El Maraghy

Invited Visits

This past year, St. Michael’s Hospital and partners have been working to execute the current strategic plan. This plan focuses on a new vision of world leadership in urban health. Our commitment to this plan is to excel in the care of our critically ill patients, provide comprehensive care for our urban community, and advance systems of care for disadvantage patients. The Department of Surgery is committed to ensuring that we contribute to these goals through our clinical, education, and research endeavours. The structure of the Peter Gilgan Patient Care Tower is quickly coming to fruition and has changed the landscape at the corner of Queen and Victoria Streets. This 17-storey tower will house 5 new “state of the art” operating rooms, each large enough to include medical imaging equipment such as CT scanners, x-rays and MRIs. The tower will also have expanded intensive care units for coronary and medical–surgical patients, as well as larger inpatients units for surgical specialties including orthopaedic surgery.

We welcomed three new faculty members to the Department of Surgery at St. Michael’s Hospital:

Dr. Karen Cross joined the Division of Plastic Surgery. Dr. Cross completed her plastic surgery residency at the University of Toronto and received her PhD through the renowned Surgeon Scientist Program at the University of Toronto. Her PhD was a joint collaboration between the University of Toronto and the Medical Research Council of Canada–Institute for Biodiagnostics. Her area of clinical expertise is in the treatment of complex wounds from trauma, cancer, infection or disease. She is an Associate Scientist in the Keenan Research Centre with interests in the application of novel optical imaging tools to assess skin physiology and wound healing. She works closely with physicists at Ryerson University, being an integral member of the Institute for Biomedical Engineering, Science & Technology (iBEST), the hospital’s research initiative with Ryerson.

Dr. Bobby Yanagawa joined the Division of Cardiac Surgery. Dr. Yanagawa completed his residency training at the University of Toronto before moving onto an advanced valvular fellowship in New York City. He received his PhD in cardiovascular pathology from the University of British Columbia, before moving on to complete postdoctoral fellowships in the United Kingdom and Japan. His clinical focus is minimally-invasive cardiac surgery including off-pump surgical revascularization, hemisternotomy aortic valve surgery and mitral valve surgery through a minithoractomy. He is an Associate Scientist with a research focus in the area of orthopaedic surgery.

Dr. Sarah Ward joined the Division of Orthopaedic Surgery. Dr. Ward completed her residency training at the University of Toronto. She has also completed two fellowships at St. Michael’s Hospital incorporating training in hip and knee arthroplasty, sports, trauma and upper extremity reconstruction. Her research focus is in the area of Quality Improvement and Patient Safety. She will work with multidisciplinary teams to promote quality improvement and patient safety initiatives both within and beyond the Division of Orthopaedics.

We said farewell to a few faculty members this year for various reasons. In vascular surgery, Dr. Tony Moloney returned with his family to their native Ireland. Dr. Wolfgang Kuebler, Scientific Director of the Critical Illness and Injury Research Centre at the Keenan Research Centre for Biomedical Science has accepted a leadership role at the University of Berlin–Charité, Institute of Physiology in Berlin, Germany. Dr. Emil Schenmisch has taken the position of Chair, Department of Surgery at the University of Western in London, Ontario. Dr. R. John Honey, who has been an outstanding clinician, teacher, and researcher throughout his career has decided to retire. Dr. Honey was the Director of Endourology at the University of Toronto and the director of the Lithotripsy and Kidney Stone Centre at St. Michael’s. He was Head, Division of Urology at St. Michael's from 1995 to 2012. In 1998 he was the founding director of the St. Michael’s Hospital Endourology Fellowship Program. He was instrumental in bringing the first surgical robot in Toronto to St. Michael’s in 2008. He has a number of publications in the clinical area of shockwave lithotripsy changing the way it is practiced globally. He has won several awards for his contributions and dedication to education, simulation, and the development of teaching models. We wish all three the very best in their future adventures.

Each June we celebrate with the 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. Jason Lee won the Donald J. Currie Teaching Award in Undergraduate Education; Dr. Jesse Wolfstadt won the McGoy Teaching Award in Orthopaedic Surgery; Dr. Joao Rezende won the William Horsey Postgraduate Teaching Award; the Janeel Ali Award in Continuing Education Award in Surgery went to Dr. Najma Ahmed; Dr. Tyler Chesney won the Leo J. Mahoney Resident Teaching Award, and Dr. Melinda Musgrave received the FitzGerald Academy’s, Master Teacher Award. Dr. Earl Bogoch was honoured with the St. Michael’s Hospital Foundation, Squires-Hyland Trust James Waddell Mentoring Award at a separate ceremony. Many other faculty have won various awards and accolades.
in the areas of education and research. To name a few, Dr. Subodh Verma has been selected as a member of the 2015 cohort of the College of New Scholars, Artists and Scientists of the Royal Society of Canada. Dr. Verma and colleagues also recently launched the CARDIOLINK platform of randomized clinical trials across several cardiac related pillars. Several of our faculty have received research awards. Of note, Dr. Tim Daniels has been awarded the Roger A. Mann Award for the fourth time, and Dr. Najma Ahmed received the prestigious Donald R. Wilson Award from the Royal College of Physicians and Surgeons of Canada for her contribution to medical education.

It has been a terrific year for our Department and I am personally indebted to our Faculty for their commitment to excellent patient care and for their unwavering support of the academic mission.

Division of Cardiac Surgery

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

Publications


Invited Visits

Peterson, Mark. Canadian Cardiovascular Society, Toronto, Ontario, October 23-26, 2015. 1) Invited Speaker: TAVR Heart Team: What could be done better? Workshop: The Heart Team: What Have We Learnt And Where Are We Headed? 2) Panel Member: CCS/CSCS/CSVS Position Statement on Thoracic Aortic Disease Interventions. 3) The Great TAVI Debate Plenary Session: Debated TAVR. 1) TAVI is being overused and performed in patients who derive little benefit (excessive fragility and heart failure) - have we gone too far? 4) TAVI is accused of becoming the preferred intervention for standard AV disease (replacing open AVR) in patients at moderate operative risk (age 65 to 80). 5) Invited Speaker: Bioprosthetic Valve Replacement in the Young Patient: Is This A Viable Long-Term Option? 6) Co-Chair: ACE Trial: A Randomized Trial of Innominate vs. Axillary Artery Cannulation in Aortic Surgery.

Peterson, Mark. Canadian Society of Cardiac Surgeons/Canadian Cardiovascular Society, Montreal, Quebec, March 4-6, 2016. Invited Speaker: 1) Role of the Surgeon in a TAVI Program. 2) Aortic Surgery: St. Michael's Approach 1 hour review of aortic surgery for Trainee Review Course.


Yanagawa, Bobby. AATS Coronary Congress, New York, NY, August 2015. Speaker: Myth Busters: Does Coronary Artery Bypass Grafting Impact Progression of Native Coronary Artery Disease?

Research and Investigations


Honours and Awards
Verma, Subodh: Royal Society of Canada College of New Scholars, Artists and Scientists Distinction September 2015.

Division of General Surgery

Dr. N. Ahmed
Dr. J. Ali
Dr. N. Baxter
Dr. J.M.A. Bohnen
Dr. M.J. Burnstein
Dr. S. de Montbrun
Dr. R. George
Dr. T. Grantcharov
Dr. A. Kapus
Dr. W. Kuebler
Dr. B. Lawless
Dr. J.C. Marshall
Dr. J. Rezende-Neto
Dr. S. Rizoli
Dr. O. Rotstein
Dr. A.S. Scheer
Dr. J.S. Simpson
Dr. K. Szaszi

Publications


Delano MJ; Rizoli SB; Rhind SG; Cuschieri J; Junger W; Baker AJ; Dubick MA; Hoyt DB; Bulger EM. Pre-Hospital Resuscitation of Traumatic Hemorrhagic Shock with Hypertonic Solutions Worsen Hypo-Coagulation and Hyper-Fibrinolysis. Shock. 2015 Jul; 44(1): 25-31.


Invited Visits


Baxter, Nancy. 9th Annual PPCR – Principles and Practice of Clinical Research Course, Burlington, Ontario, October 1, 2015. Invited Speaker: Level II: What is a Prospective Cohort Study?

Baxter, Nancy. Linyi People’s Hospital, Linyi, Shandong, China, October 13, 2015. Visiting Professor: Lynch Syndrome in China.


de Montbrun, Sandra. The American Society of Colon and Rectal Surgery Annual Meeting, Los Angeles, California, May 1, 2016. Invited Speaker: Colon and Rectal Surgery Training and Beyond: Education for Colorectal Surgeons - Simulations and Simulators.

George, Ralph. Dermatology Regional Meeting, Quebec City, Quebec, September 18, 2015. Invited Speaker: 1) Hidradenitis Suppurativa. Overview Treatment and Management. 2) Changing Paradigms in HS management.

George, Ralph. Canadian Dermatology Association, December 15, 2015. Presenter: Surgical Management HS Online CPD.


George, Ralph. Canadian Association of Emergency Physicians, Quebec City, Quebec. Presenter: Breaking News Alert: Outbreaks of Boils. Recognizing HS and Initial management.


George, Ralph. Canadian Dermatology Association, Saskatoon, Saskatchewan, June 24, 2016. Presenter: The Patient’s Journey in HS.


Grantcharov, Teodor. Cleveland Clinic, Cleveland, Ohio, April 6, 2016. Roland S. Philip Lecturer: Strategies to Improve Performance and Safety in the Operating Room.


Grantcharov, Teodor. Academic Medical Centre, Amsterdam, Netherlands, June 8, 2016. Visiting Professor: 1) Strategies to Enhance Knowledge Translation in Simulation Research. 2) Operating Room Black Box. 3) Competency Based Education in Surgery.


Marshall, John C. 12th World Congress of Intensive Critical Care Medicine, Seoul, Korea, August 29 – September 1, 2015. Invited Speaker: 1) Critical illness is an iatrogenic disorder. 2) Global collaboration for sepsis research. 3) Guidelines are the future of sepsis management – Con. 4) Global collaboration for acute care research. 5. Report of the WFSCICCM Task Force: What is an ICU?


Marshall, John C. Scientific Computing for Improved Diagnosis and Therapy of Sepsis (SCIDATOS) Inaugural Meeting, Heidelberg, Germany, February 18-19, 2016. Invited Speaker: Molecular therapies for sepsis: Why have they failed?


Marshall, John C. 13th International Sepsis Forum, Latin American Sepsis Institute, Sao Paulo, Brazil, April 7-8, 2016. Invited Speaker: 1) Failure: The inevitable pathway of sepsis protocols. 2) Deresuscitation: The final stage in sepsis management. 3) CCCTG: What is next in sepsis clinical trials?


Rizoli, Sandro. II International Symposium on the Care for the Injured Patient, Sao Paulo, Brazil, August 1, 2015. Lecturer: 1) Focus intraoperative bleeding: pitfalls. 2) Coagulopathy prevention: how to achieve it?

Rizoli, Sandro. XXVIII Panamerican Clinical Congress of Trauma, Santa Cruz, Bolivia, November 14, 2015. Lecturer: 1) North vs. South debate. 2) How to resuscitate injured patients taking the novel oral anticoagulants. 3) Blood transfusions should be tailored to the patient infront of you.


Rizoli, Sandro. University of Santo Amaro, São Paulo, Brazil, April 26–28, 2016. Visiting Professor: 1) Definitive Surgical Trauma Course (DSTC). 2) Trauma, bleeding and coagulopathy.

Rizoli, Sandro. XVIII Trauma Course and Pre-Congress of the Brazilian Trauma Leagues, State University of Campinas (UNICAMP), Campinas, Brazil, April 28, 2016. Lecturer: Coagulopathy in trauma, management from pre-hospital to ICU.


Research and Investigations


A systematic review, modified delphi survey and Canadian consensus conference on contralateral prophylactic mastectomy for non-high risk women with unilateral early stage breast cancer or DCIS. Canadian Institutes of Health Research (CIHR). Baxter N, Wright J, Covelli A, Gaghidi A, Look Hong N, Quan M. ($10,000.00 CAD Jan 2016 – Jan 2017).


RIC Trauma Study. St. Michael's Hospital. Rotstein OD, Rizoli OB. ($50,000.00 CAD Jul 2015 – Jun 2016).


Using rotational thromboelastometry and simplified guidelines to reduce inappropriate transfusion of blood and blood products to trauma patients at St. Michael's Hospital. St. Michael's Hospital. Rezende-Neto J, Rizoli S. ($29,200.00 CAD 2015 - 2016 ).

Honours and Awards

Ahmed, Najma: Jameel Ali Award, St. Michael's Hospital. Excellence in Continuing Education recognizing exceptional contributions made to resident training locally and nationally. May 2016.


Grantcharov, Teodor: Spinoza Chair in Surgery, University of Amsterdam (Universiteit van Amsterdam). In recognition of outstanding contributions to surgical safety. Amsterdam, Netherlands. June 2016.

Grantcharov, Teodor: Charles H. Tator Award, Department of Surgery, University of Toronto. July 2015.

Rezende-Neto, Joao: William J Horsey Award for Excellence in Postgraduate Education. Dept of Surgery, Faculty of Medicine, University of Toronto. June 2016.

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


St. Michael’s


Invited Visits
Das, Sunit. Clinician-Scientist Seminar Series, University of Massachusetts Medical School, Worcester, Massachusetts, February 11, 2016. Visiting Professor: Regulation of cell identity in glioblastoma by a novel IncRNA.
Das, Sunit. MISAM 2016, Centre Mont-Royal, Montreal, Quebec, June 15, 2016. Invited Speaker: Treating disseminated cancer by targeting the epidenome.
Spears, Julian. Division of Neurosurgery The Ottawa Hospital and the University of Ottawa, Ottawa, Ontario, November 5, 2015. Visiting Professor: Management of Unruptured Intracranial Aneurysms: To Treat of Not to Treat.


Research and Investigations

A framework for SAH management: Integrating clinical imaging thresholds for intervention in aneurysmal SAH (Retrospective data analysis). CHAR-GE E&M dept. Spears J. ($20,000.00 CAD Jan 2015 –).


LARGE Aneurysm Randomized Trial: Flow Diversion versus Traditional Endovascular Coiling Therapy. Medical University of South Carolina. Spears J. ($1,000,000.00 CAD Jul 2015 –).

LncRNA Regulation of CSCs in Glioblastoma. b.r.a.i.n.child. Das S. ($25,000.00 CAD Oct 2015 – Jul 2016).


Vascular-perfusion imaging for prediction and early recognition of DCI and relationship to clinical outcome. GE-CHAR grant and Matching contribution from University of Toronto. Spears J, Marotta T. ($20,000.00 CAD Jul 2015 –).


Daniels TR. 16 of the top foot and ankle surgeons in North America: Top Stories. Orthopedics This Week. 2015 Sept;11(31).


McKee M. Injuries to the Chest Wall. Springer. 2015.


McKee M. Injuries to the Chest Wall. Springer. 2015.


**Invited Visits**


Daniels, T., Timothy. AOAF Annual Meeting 2015, Long Beach, California, July 15-18, 2015. Invited Speaker: 1) Understanding “satisfactory” outcomes following ankle arthroplasty and arthrodesis. 2) Comparison of health-related quality of life between patients with unilateral and bilateral end-stage ankle arthrosis. 3) Ankle Replacement: Update on outcomes - Where are we at and where are we headed?


Daniels, T., Timothy. Annual Parekh Indo-US Foot and Ankle Course, Ahmedabad, India, January 8, 2016. Invited Speaker: 1) Regional anaesthesia in foot and ankle w video. 2) Tibiotalocalcaneal fusions – techniques and tips w video. 3) Analyzing & treating the diabetic foot. 4) Case based for stages 1-4 PTTD. 5) Chronic anterolateral ankle pain.

Daniels, T., Timothy. Grand Rounds, MGH-Harvard Medical School, Boston, Massachusetts, January 28, 2016. Visiting Professor: 1) Deformity correction of the severe varus ankle. 2) Total ankle replacement vs fusion.

Daniels, T., Timothy. AAOS – AOAF Specialty Day 2016 Symposia Title “I usually do it that way, but this time it didn’t work”, AOAF, Orlando, Florida, March 5, 2016. Invited Speaker: Tibiotalocalcaneal fusion – Techniques and Tips with a Video.

Daniels, T., Timothy. Clinica Alemana de Santiago and Cautad de Medicina, Santiago, Chile, April 1, 2016. Distinguished Speaker: First Course of deformities in leg, ankle and foot in adults and children Midfoot Deformities: 1) Charcot disease; 2) Foot and ankle approaches: how to avoid complications. 3) Hallux valgus. 4) Osteoarthritis in varus. 5) Osteoarthritis in valgus. 6) Cavus foot. 7) Flat foot.

Daniels, T., Timothy. AOAF Advanced Foot and Ankle Course: A Case Based Approach to the Most Challenging Problems We Face, AOAF, Cleveland, Ohio, April 28-30, 2016. Presenter: 1) Ankle Arthritis – Replacement. 2) Medial Column Deformity. 3) Stage 2 hindfoot flat foot: What is enough correction? 4) Biologics and Infection. 5) Hallux valgus: When is a turnup not just a turnup? 6) Case based for stages 1-4 PTTD. 7) Chronic anterolateral ankle pain.


McKee, Michael. Halifax Trauma Course, Dalhousie University, Halifax, Nova Scotia, April 23, 2016. Invited Speaker: 1) How to survive the night: What is important, coordination, referral.. 2) Proximal Humeral Fracture: Indications, table set-up, approach (deltiopectoral vs anterolateral), ORIF reduction, plate position—What plate? and why ORIF. 3) Table set-up, approach post (triceps split, olecranon osteotomy, triceps sparing), reduction tech, plate positioning.


McKee, Michael. COA, Quebec, Quebec City, June 18-19, 2016. Invited Speaker: 1) Proximal humerus fractures Arthroplasty in Trauma: When and what should we be replacing? 2) Total elbow arthroplasty Symposium: Elbow trauma: Distal humeral fractures. 3) Intermediate outcomes following initial treatment of Proximal humerus fractures in Ontario, Canada: A population-based, retrospective cohort. 4) Instability of the forearm axis Hand Symposium: Disorders of forearm rotation.


Schemitsch, Emil. Osteosynthesis and Trauma Care Foundation, Zürich, Switzerland, November 2015. Invited Lecturer: Unusual Indications for Intramedullary Nailing.


Research and Investigations


Predicting and preventing the major vascular complications of surgery. Canadian Institutes of Health Research (CIHR). Schenitsch E, Devereaux PJ. ($8,439,205.00 CAD Jul 2015 – Jul 2022).


The biomechanics of fixation via the modified stoppa approach vs. the posterior approach for management of acetabular fractures with ORIF and acute THA in the elderly. Orthopaedic Trauma Association (The) (OTA). Schenitsch E, Moktar J, Walmsley D, Aziz MSR, Zdero R. ($20,000.00 CAD Jun 2016 – May 2018).

The Effects of Locally Delivered Bone Marrow-Derived Cells on Fracture Healing in a Diabetic Rat Model. Orthopaedic Trauma Association (The) (OTA). Schemitsch E, Nauth A. ($50,000.00 USD Jan 2016 – Dec 2017).


Validation of the Radiographic Union Score for Tibial Fractures using Medical imaging and Biomechanical Testing in an In Vivo Rat Model. Orthopaedic Trauma Association (The) (OTA). Schemitsch E, Crookshank M. ($20,000.00 USD Jun 2016 – May 2017).

Honours and Awards

Bogoch, Earl R: University of Toronto Best Fellows’ Training Program. The St. Michael’s Hip and Knee Arthroplasty Fellowship was selected as the best educational fellowship program. Dept of Surgery, Faculty of Medicine, University of Toronto, 2016.


Nauth, Aaron: St Michael’s Hospital/University of Toronto Chair in Fracture Care Research. January 2016.


Schemitsch, Emil: Jacques Duparc Award. The European Federation of National Associations of Orthopaedics and Traumatology. One of the 10 best posters during the 16th EFORT Congress. 2015.

Division of Plastic and Reconstructive Surgery

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

Publications


Invited Visits


Research and Investigations

MIMOSA (Multispectral MOible tiSSue Assessment). St. Michael’s Hospital. Cross KM. ($95,000.00 CAD Jun 2016 – Jun 2018).


Honours and Awards

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  Associate Professor

Publications


Invited Visits


Research and Investigations


Honours and Awards


Honey, Richardson John D’Arcy: James Waddell Mentorship Award. Dept of Surgery, University of Toronto. 2015.

Lee, Jason: Donald J Currie Award. Department of Surgery, St Michael’s Hospital. Awarded to member of Dept of Surgery faculty in recognition of outstanding contributions to undergraduate education. June 2016.

Lee, Jason: Urology Faculty Postgraduate Teaching Award (Surgical Teacher). Awarded by the Division of Urology residents to the faculty member that has contributed the most to their surgical training in the OR setting. June 2016.

Division of Vascular Surgery

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

Publications


Invited Visits


Research and Investigations

Pulse Wave Velocity Imaging in the Assessment of Peripheral arterial Disease. Blair Foundation, Supported by the University of Toronto. Greco E. (Jan 2016 – ).
The 2015–16 academic year within the Department of Surgery at Sunnybrook was met with new challenges related to a very difficult fiscal climate and Sunnybrook’s sustainability program, together significantly impacting both bed and operating room resources. In spite of these challenges, our academic strength continues to increase with the recruitment of two new surgeon investigators. We also continue to expand our quality improvement activities, having receiving recognition and awards through Health Quality Ontario for our successes in reducing surgical site infections and other nosocomial infections in surgical patients. We have begun to operationalize Sunnybrook Trauma Program’s with the hiring of a trauma program manager and approval to fundraise for a new hybrid operating room and a trauma multidisciplinary clinic. Sunnybrook celebrated it’s 40th year as a trauma centre through a Trauma Expo, featuring a simulated trauma resuscitation highlighted on CityTV.

The Department of Surgery at Sunnybrook hosted the Tile Lecture in Trauma with Dr. Geoffrey Manley (Neurosurgery, University of California, San Francisco), speaking on Precision Medicine in Traumatic Brain Injury. Dr. Karen Brasel, Oregon Health & Sciences University was the visiting professor for our Perioperative Grand Rounds and gave an excellent talk on “Best Case, Worst Case, Helping Patients Understand Prognosis.” Sunnybrook also hosted University Grand Rounds focusing on global surgery, with Dr. Anna Dare speaking on her involvement with the Lancet Commission on Global Surgery and Dr. Jim Turner, a pediatric orthopaedic fellow who spoke on the merits of the World Health Organizations’ trauma checklist.

Recruitment

Dr. Alan Rogers was recruited to the Division of Plastic and Reconstructive Surgery as a burn surgeon in the Ross Tilley Burn Centre. Dr. Rogers is a surgeon investigator with a focus on quality and patient safety.

Dr. Sebastian Tomescu was recruited to the Division of Orthopaedic Surgery with a focus on arthroplasty. He has been appointed as a surgeon investigator and has a laboratory focusing on biomechanics.

Departures

Drs. Richard Holby and John Cameron, from the Division of Orthopaedic Surgery retired from clinical practice. Both are thanked for their years of service and contributions to the Department.

Division Reports

Cardiac surgery

Dr. George Christakis was named the recipient of the 2015 John Provan Outstanding Surgical Educator Award. This honour is sponsored by the Canadian Association of Surgical Chairs and is awarded annually in recognition of outstanding contribution to undergraduate surgical education in Canada. Dr. Stephen Fremes was re-appointed as the Goldman Chair in cardiac surgery.

Neurosurgery

Dr. Todd Mainprize and his team accomplished a world’s first, using focused ultrasound to deliver chemotherapy across the blood brain barrier. This landmark event was profiled in the Globe and Mail, CTV news and received considerable attention from the medical community. Dr. Mainprize was also appointed as Division Head, Neurosurgery, transitioning from his previous interim role. Dr. Victor Yang’s spinal navigation technology was recognized through an award at the annual meeting of the National American Spine Society for best innovation.

General Surgery

Dr. Shady Ashamalla transitioned was appointed as Division Head, General Surgery, transitioning from his previous interim role. Dr. Ashamalla led the creation of the Mike Richards and Doug Gilmour foundation to support continuing surgical education in minimally invasive colorectal cancer surgery at Sunnybrook.

Dr. Lorraine Tremblay received the Department of Critical Care Medicine’s teaching award. Dr. Paul Karanicolas was promoted to the rank of Associate Professor and also received a Ministry of Research and Innovation Early Researcher Award for his work on improving outcomes after liver resection. Both Dr. Karanicolas and Dr. Frances Wright in her role as fellowship director, Surgical Oncology brought the University of Toronto through a successful accreditation process of a designated Hepatobiliary oncology fellowship through the Fellowship Council and the ACGME. Dr. Karanicolas, Dr. Ashamalla, and Dr. Barto Nascimento all successfully passed their continuing appointment reviews.
Nascimento was named the chair of the Canadian Research Outcomes Consortium Trauma Committee – a lead for the conduct of related pan-Canadian clinical trials. Dr. James Byrne, supervised by Dr. Avery Nathens was awarded the best research presentation at the American College of Surgeons International Resident Research Competition and also received an award for best presentation at Gallie Day. Dr. Nathens was appointed as Medical Director of Trauma at Sunnybrook, taking over from Dr. Homer Tien, who was appointed Medical Director of Ornge, Ontario’s air ambulance agency.

Plastic and Reconstructive Surgery

Dr. Oleh Antonyshyn was the recipient of the Department of Surgery Undergraduate teaching award. Dr. Antonyshyn role as lead of the medical mission at Ukraine Military Hospital was featured by CTV’s investigative documentary series, W-5. Dr. Laura Snell successfully passed her continuing appointment review. Dr. Marc Jeschke was elected executive council member of the Surgical Infection Society and the Ross Tilley Burn Centre (RTBC) was awarded a large grant by Toronto Hydro to support stem cell research. Dr. Stephanie Mason, co-supervised by Dr. Jeschke (and Dr. Nathens) received an award for best poster at Gallie day as did Dr. Dolp, who was supervised by Drs. Jeschke and Saied Amini-Nik.

Through the International Nutrition Survey fielded by Critical Care Nutrition, the RTBC received the Best of the Best Award - second place among all participating ICU’s and first among burn units – for its nutritional support of this complex patient population.

Surgeons from the Ross Tilley Burn Centre led by Dr. Shar Sharhoki have implemented a Complex Wound Service to support the needs of surgical patients across the Department.

Urology

Dr. Laurie Klotz received the Richard Williams Award by the American Urological Association, for the highest impact research in prostate cancer over the last decade. Dr. Robert Nam received a Professional Association of Residents of Ontario Excellence in Clinical Teaching award. Dr. Sender Herschorn was named the Director of the University-wide program in Functional Urology through a major investment by Astellas Pharma Canada to support clinical, population-based, and health services research and to establish Toronto as a centre for excellence in functional urology.

Orthopaedic Surgery

Dr. Albert Yee was appointed chief, Holland Musculoskeletal Program and Division Head, Orthopaedic Surgery. Dr. Hans Kreder was thanked for over 10 years of service, having previously held these positions. Dr. Richard Holtby (Orthopaedic Surgery), received the Marvin Tile Award for 30 years of service to the Department including service on the REB (10 years), MDMSA executive (and its president), Chair of the AFP Management Board, his innovations in arthroscopic surgery of the shoulder and his stemless shoulder prosthesis (the “Nano”). Several faculty members including Dr. John Cameron and Dr. Sebastian Tomescu were featured in the National Post for the innovative approach to “job sharing” to facilitate recruitment of new faculty and provide mentorship through the experience of late career surgeons.

Vascular Surgery

Dr. Andrew Dueck was recognized as the best faculty teacher in the University Division of Vascular Surgery. Dr. Trisha Roy, supervised by Dr. Dueck, received a Vanier Canada Graduate Scholarship. Dr. Giuseppe Papa received a Peters-Boyd Academy clerkship faculty teaching award and was also named treasurer of Sunnybrook Medical-Dental-Midwifery Staff Association.

Division of Cardiac Surgery

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

Publications


Kapralos W, Moussa F, Collins K, Dubrowski A. Fidelity and Multimodal Interactions. Instructional Techniques to Enhance Learning and Motivation of Serious Games. Springer. 2015, Chapter 4.


Invited Visits


Moussa, Fuad. The Vaughn Heart Institute, Vaughn, Ontario, Apr 20, 2016. Invited Speaker: The Role of Hybrid Revascularization Introduction to hybrid coronary revascularization to family physicians and cardiologists.


Research and Investigations


A randomized controlled trial of rivaroxaban for the prevention of major cardiovascular events in patients with coronary or peripheral artery disease (COMPASS – Cardiovascular OutcoMes for People using Anticoagulation StrategieS) Rivaroxaban for the prevention of major cardiovascular events in CAD or PAD (COMPASS). Bayer Pharmaceuticals. Fremes S, Eikelboom J.($6,000.00 per enrolled patient Nov 2015 – Jan 2018).

Honours and Awards

Cohen, Gideon: Sunnybrook Moment Award, Sunnybrook Health Sciences Centre. In recognition for outstanding service and dedication to patients. 2015.


Division of General Surgery

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

Publications


Bhatti JA. Road Safety and Mobile Phone Behaviors. Volumes 1, 2, & 3, Chap 107, 2015. Encyclopedia of Mobile Phone Behavior. IGI Global, Hershey, Pennsylvania. Z. Yan (ed).


Meyers B; Cosby R; Quereshy; Jonker D. Adjuvant Systemic Chemotherapy for Stage II and III Colon Cancer Following Complete Resection, Guideline 2-29 Version 2. Gastrointestinal Cancer Evidence-based Series (EBS) and Practice Guidelines (PG) Program in Evidence-Based Care (PEBC), Cancer Care Ontario (CCO) Canada. Online Resources. 2015 Sept;


Racz JA, Look Hong N, Latosinsky S. In search of a gold standard scoring system for the subjective evaluation of cosmetic outcomes following breast-conserving therapy. The Breast Aug 2015; 24: 345-51.


Invited Visits


Coburn, Natalie. A. C. Camargo Cancer Center, São Paulo, Brazil, April 20, 2016. Invited Speaker: Variations in Care for Cancer Patients.


Law, Calvin. Novartis, Dubai, United Arab Emirates, April 29, 2016. Invited Speaker: 1) Incidental diagnosis of NETs and follow-up plan. 2) Treatment of NETs with Sandostatin LAR.

Law, Calvin. Canadian Update in Surgical Procedures (CUSP), June 4, 2016. Chair: Debate: Debulking for carcinoid liver metastases – why bother versus it’s the way to go HPB Controversies in Hepatobiliary Surgery.


Nathens, Avery B. Huffington Post Media Appearance, September 19, 2015. Quoted: You can and should ask these questions before consenting to surgery.

Nathens, Avery B. Trauma Center Association of America, Louisville, Kentucky, September 21, 2015. Invited Speaker: Geriatric trauma.


Rizoli, Sandro. II International Symposium on the Care for the Injured Patient, Sao Paulo, Brazil, August 1, 2015. Lecturer: 1) Focus intraoperative bleeding pitfalls. 2) Coagulopathy prevention: how to achieve it?

Rizoli, Sandro. Resident and Fellows Paper Competition of the Trauma Association of Canada and Committee on Trauma of the American College of Surgeons at the Canadian Surgery Forum, Quebec City, Quebec, September 19, 2015. Chair & Judge.

Rizoli, Sandro. XXVIII Panamerican Clinical Congress of Trauma, Santa Cruz, Bolivia, November 14, 2015. Lecturer: 1) North vs. South debate. 2) How to resuscitate injured patients taking the novel oral anticoagulants. 3) Blood transfusions should be tailored to the patient in front of you.

Rizoli, Sandro. 14th Annual Kuwait Postgraduate Assembly in Surgery and 3rd Annual Kuwait Surgical Society Meeting, Kuwait City, January 2016. Lecturer 1) Assessment and management of massive bleeding. 2) Blunt hepatic trauma. 3) Management of stab wounds to the anterior abdominal wall. 4) Evidence based telemedicine. 5) Further understanding traumatic brain injury.

Rizoli, Sandro. Kuwait University, Faculty of Medicine, Kuwait City, January 31, 2016. Examiner: Practice oral exam for senior general surgery residents.


Rizoli, Sandro. 1st International Trauma Symposium, XVI Introductory Course of the Trauma League and Emergency Surgery, Faculty of Medicine of Santo Amaro (UNISA), Sao Paulo, Brazil, April 26, 2016. Lecturer: Trauma, bleeding and coagulopathy.

Rizoli, Sandro. University of Santo Amaro, Sao Paulo, Brazil, April 28, 2016. Visiting Professor: Definitive Surgical Trauma Course (DSTC).

Rizoli, Sandro. State University of Campinas (UNICAMP), Campinas, Brazil, April 28, 2016. 1) Lecturer: XVIII Trauma Course and Pre-Congress of the Brazilian Trauma Leagues Coagulopathy in trauma, management from pre-hospital to ICU. 2) Course Director: Definitive Surgical Trauma Course (DSTC).


Wright, Frances. Canadian Association of General Surgeons/ Canadian Society of Surgical Oncology, Quebec City, Quebec, September 17, 2015. Invited Speaker: Implementing Multidisciplinary Conferences.

Research and Investigations


A systematic review, modified delphi survey and Canadian consensus conference on contralateral prophylactic mastectomy for non-high risk women with unilateral early stage breast cancer or DCIS. Canadian Institute of Health Research. Wright F, Baxter N, Covelli A, Gagliardi A, Look Hong N, Quan ML. ($10,000.00 CAD Dec 2015 – Dec 2016).

Developing a National Consensus Statement for Contralateral Prophylactic Mastectomy (CPM) in Breast Cancer. Canadian Institutes of Health Research (CIHR). Look Hong NJ ($10,000.00 CAD 2015).


Informing and personalizing the decision for contralateral prophylactic mastectomy: The development of evidence-based decision support tools for patients and practitioners to reduce the overtreatment of early breast cancer. *University of Toronto, Division of Medical Oncology, Holloway C, Eisen A, Scheer A, Cordeiro E.* ($30,000.00 CAD  Sept 2015 – Aug 2016).


The impact of Repository Imaging Services (RIS)-based imaging on hepatopancreatobiliary cancer care. *Canada Health Infoway,* Hallet J. ($50,000.00  CAD Mar 2016 – Oct 2016).


Using rotational thromboelastometry and simplified guidelines to reduce inappropriate transfusion of blood and blood products to trauma patients at St. Michael's Hospital. *St. Michael’s Hospital AFP.* Rizoli S. ($29,200.00 CAD 2015 – 2016).

Honours and Awards

**Bhatti, Junaid Ahmad:** Outstanding Poster Award, Association for Advancement of Automotive Medicine. 2015.

**Bhatti, Junaid Ahmad:** Travel Grant, International Traffic Medicine Association. 2015.


**Hallet, Julie:** Top Judge’s Choice - Innovation Prize, Poster Presentation, Annual Inter-professional Showcase, Sunnybrook Health Sciences Centre Research Award. June 2016.

**Karanicolas, Paul Jack:** Best Surgical Lecture for the GSO fellowship, U of T Division of General Surgery, Teaching and Education Award. 2016.


**Tremblay, Lorraine:** Award for Individual Teaching Excellence (Sunnybrook Health Sciences Centre). Voted by city wide clinical fellows. June 2016.

Division of Neurosurgery

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<tr>
<th>Dr. L. da Costa</th>
<th>Associate Professor</th>
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<tr>
<td>Dr. M. Fazl</td>
<td>Assistant Professor</td>
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<td>Dr. T. Mainprize</td>
<td>Assistant Professor (Division Head)</td>
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<td>Dr. N. Phan</td>
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<td>Dr. F. Pirouzmand</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. M.L. Schwartz</td>
<td>Professor</td>
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<td>Dr. V.X.D. Yang</td>
<td>Associate Professor</td>
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Publications


Invited Visits


Mainprize, Todd. FUSE, Virginia, November 9, 2015. Invited Speaker: 1) Sunnybrook Experience in Tumor Ablation using MRIgFUS. 2) Experience of BBB disruption in GBM.

Mainprize, Todd. NIH, Bethesda, Maryland, June 7, 2016. Keynote Speaker: Blood Brain Barrier Disruption in Neuro Oncology.


Mainprize, Todd. University of Saskatchewan, College of Medicine, Saskatoon, Saskatchewan, June 17, 2016. Keynote Speaker: The Use of Focused Ultrasound in Neuro Oncology.

Pirouzmand, Farhad. Acoustic neuroma Association of Canada (ANAC) meeting, Ontario, June 2016. Chair: Exploring ABI option post surgical resection of AN.


Research and Investigations


Honours and Awards

Mainprize, Todd: Ross Fleming Surgical Teaching Award, University of Toronto. July 2015.

Division of Orthopaedics

Dr. T.S. Axelrod  Professor
Dr. H.U. Cameron  Associate Professor
Dr. J.A. Finkelstein  Associate Professor
Dr. M. Ford  Assistant Professor
Dr. J. Gollish  Assistant Professor
Dr. P. Henry  Assistant Professor
Dr. R. Holtby  Assistant Professor
Dr. R. Jenkinson  Assistant Professor
Dr. H.J. Kreder  Professor
Dr. L.P. Marks  Associate Professor
Dr. J.J. Murnaghan  Associate Professor
Dr. D. Nam  Assistant Professor
Dr. M. Nousiainen  Assistant Professor
Dr. R.R. Richards  Professor
Dr. D.J.G. Stephen  Associate Professor
Dr. S.S. Tomescu  Lecturer
Dr. V.M.R. Wadey  Associate Professor
Dr. D. Wasserstein  Assistant Professor
Dr. C. Whyne  Assistant Professor
Dr. C.S. Wright  Assistant Professor
Dr. A. Yee  Professor (Division Head)

Publications


JENKINSON RJ. Principles of Plate Fixation: Rib Fracture Applications. Injuries to the Chest Wall: Diagnosis and Management. 2015; pp 89-100. Springer International Publishing, Switzerland. MD McKee, EH Schemitsch (eds).


Invited Visits


Axelrod, Terry S. Royal Society of Medicine Trauma Symposium, Royal Society of Medicine, London, United Kingdom, February 24, 2016. Keynote Speaker: 1) The compromised forearm. 2) Panel Discussion Upper Limb Trauma.
Axelrod, Terry S.  British Society for Surgery of the Hand (BSSH), London, United Kingdom, April 28, 2016.  1) Distinguished Speaker: Lifelong Learning.  2) Plate and screw design and evolution.


Cameron, John Charles.  13th Meeting of the Combined Orthopaedic Associations, Cape Town, South Africa, April 11, 2016. Visiting Professor: Total Knee Replacements with Rotational Tibial Osteotomy.


Finkelstein, Joel A.  Canadian Orthopaedic Association (COA), Quebec City, Quebec, June 2016. Invited Lecturer: 1) Tumour/spine: Advances in the management of primary and metastatic tumours of the axial skeleton.  2) Minimally invasive surgical approaches to spinal metastatic disease.  3) Multi-disciplinary approach to spinal and bone metastases: The Sunnybrook Bone Metastases Clinic.


Nousiainen, Markku.  Stryker Canada: Great Expectations Toronto Recon and Trauma Symposium, Toronto, Ontario, October 2, 2015. Invited Speaker: 1) When and How to Fix the Syndesmosis and Posterior Malleolus.  2) How to Improve Outcomes with Locked Plating.  3) Acute Infection: Evidence Based Principles of Diagnosis and Treatment.  4) Hip/Femur/Tibia session moderator of 6 talks relating to the management of traumatic injuries to the hip, femur and tibia.


**Nousiainen, Markku**:  13th Combined Meeting of Orthopaedic Societies (COMOC), Cape Town, South Africa, April 14, 2016. Chair: 1) Competency Based Medical Education: An Overview. 2) The Role of a Competency-Based Curriculum in Orthopaedic Training: Bridging the Gap between Theory and Clinical Practice.

**Nousiainen, Markku**:  American Association of Clinical Pathologists, Oakland, California, June 14, 2016. Invited Speaker: Am I a Competent Resident? 7-Year Outcomes of Competency-Based Training in the University of Toronto’s Division of Orthopaedic Surgery.

**Nousiainen, Markku**:  Canadian Orthopaedic Association, Quebec City, Quebec, June 18, 2016. Chair: What Does the Royal College’s “Competence by Design” Plan Mean for Orthopaedic Surgery Training in Canada?


**Richards, Robin Richard**:  75th Annual Scientific Meeting, Australian Orthopaedic Association, Brisbane, Australia, October 13, 2015. 1) Invited Speaker: Proximal Phalangeal Unicondyilar Fractures. 2) Chair: Hand Session.


**Stephen, David J. G.**:  AO International Pelvic and Acetabular Fracture Management (with Human Anatomical Specimens), Seattle, Washington, May 2016. Speaker: 1) Posterior pelvic ring; SI joint dislocations and fracture dislocations; 2) Fixation of pelvic ring injuries: Faculty Panel Case discussion; 3) Sacroiliac fracture - dislocation - practical exercise; 4) Acetabulum: understanding fractures - carcords on radiology and classification. 5) Reduction and fixation via K/L or “trochanteric flip” approach. 6) Transverse plus posterior wall and t-shaped fracture through Kocher Langenbeck practical exercise.


**Stephen, David J. G.**:  Canadian Orthopaedic Association (COA), Quebec City, Quebec, June 17, 2016. Panelist: Strategies for surgical approaches in open reduction internal fixation of pilon fractures.


**Whyne, Cari**:  21st Congress of the European Society of Biomechanics, Prague, Czech Republic, July 5, 2015. Speaker: Can CT image deblurring improve strain and failure load predictions at the proximal femur?

**Whyne, Cari**:  SIOMMMS, Italian Society of Osteoporosis, Mineral Metabolism and Skeletal Diseases, Fellow Day, Bologna, Italy, November 11, 2015. Speaker: Can CT image deblurring improve finite element predictions at the proximal femur?


**Yee, Albert**:  Juravinski Cancer Centre, Hamilton, Ontario, April 7, 2016. Invited Speaker: The multidisciplinary bone metastasis clinic at Sunnybrook.
Research and Investigations


Honours and Awards

Nousiainen, Markku: Dave Davis Award, Continuing Professional Development, Faculty of Medicine, University of Toronto. To recognize an outstanding completed research project in continuing education and professional development in the Faculty of Medicine. November 2015.

Division of Plastic and Reconstructive Surgery

Dr. O.M. Antonyshyn  Professor
Dr. P. Binhammer  Assistant Professor (Division Head)
Dr. R. Cartotto  Associate Professor
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


Antonyshyn, Oleh M. Division of Plastic Surgery, University of Calgary, Calgary, Alberta, December 10–12, 2015. 1) Visiting Professor: Technology Transfer: From Surgical Innovation to Commercial Venture. 2) Judge, Resident Research Day. 3) Dale Birdsall Lecturer: Reconstructing Casualties of War: Canadian Humanitarian Efforts in Ukraine. 4) Visiting Professor: Resident problem cases. Review Clinical problem cases with residents.


Antonyshyn, Oleh M. Division of Plastic Surgery, University of Alberta, Edmonton, Alberta, April 1, 2016. Invited Lecturer: Reconstructing Casualties of War: Canadian Humanitarian Efforts in Ukraine.


Cartotto, Robert. Grand Rounds Lecture, Department of Surgery, UC Irvine School of Medicine, Irvine, California, March 31, 2016. Visiting Professor: The Comundrum of Crystalloids and Colloids in Acute Burn Resuscitation.


Shahrokhi, Shahriar. Liege University Hospital in Belgium, Liège, Belgium, November 18, 2016. Invited Lecturer: Current Concepts in Burn Wound Infections (Webinar).


Research and Investigations


**Honours and Awards**

**Antonyshyn, Oleh M:** Medal: Order of Merit, 3rd class, Government of Ukraine. The Order of Merit is awarded by the President of Ukraine to citizens of Ukraine or foreign countries for distinguished personal achievements economic, scientific, technological, military, cultural, public, and other spheres of social activities. Kyiv, Ukraine. February 2016.

**Cartotto, Robert:** Best Clinical Paper, Canadian Society of Plastic Surgeons. Ottawa, June 2016.


**Division of Urology**

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<tr>
<td>Dr. L.K. Carr</td>
<td>Associate Professor</td>
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<td>Dr. S. Herschorn</td>
<td>Professor</td>
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<tr>
<td>Dr. L. Klotz</td>
<td>Professor</td>
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<tr>
<td>Dr. R.T. Kodama</td>
<td>Professor (Division Head)</td>
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<td>Dr. R.K. Nam</td>
<td>Professor</td>
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<tr>
<td>Dr. V. Venkateswarran</td>
<td>Associate Professor</td>
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**Publications**


Invited Visits

Nam, Robert K. Society of International Urology/World Urologic Oncology Federation, Melbourne, Australia, October 15, 2015. Invited Lecturer: How Morbid is Radiation Compared to Surgery?

Research and Investigations


Honours and Awards

Klotz, Laurence: Richard Williams Award, American Urological Association, Urology Care Foundation. This award is presented to individuals for their outstanding and impactful research in the field of prostate cancer over the last 10 years. May 2016.

Klotz, Laurence: Best Poster of Conference Award, European School of Oncology Active Surveillance Conference. Milano, Italy. February 2016.

### Division of Vascular Surgery

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<th>Name</th>
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<tr>
<td>Dr. A. Dueck</td>
<td>Assistant Professor (Division Head)</td>
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<td>Dr. D.S. Kucey</td>
<td>Assistant Professor</td>
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<td>Dr. R. Maggisano</td>
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<tr>
<td>Dr. G. Papia</td>
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### Publications


### Vascular Surgery Research Day

![Image of Vascular Surgery Research Day]
We have had an exciting year. We are now the Michael Garron Hospital (MGH), a proud member of the Toronto East Health Network. The Michael Garron Foundation has made history by making the largest donation ever in Canada to a single community hospital. Our Foundation received an unprecedented 50 million dollars. The re-naming of our hospital does not change our primary focus of being a community hospital providing exceptional care – instead it brings an added focus of research to our organization - and to our Department of Surgery. We are eager to start construction on our new patient-care tower and hospital campus scheduled to start in 2017. The new facility, coupled with the Michael Garron Foundation investment will ensure state-of-the-art equipment and patient-centered care programs which will enable us to set a new standard in surgical care and surgical education.

Our Division vision is simple – we want MGH 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 MGH 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 over 11,700 operative cases in Fiscal Year (FY) 2015/16. We are on-track this FY to complete over 11,800 cases. The Department of Surgery accounts for the largest proportion of cases within the Surgical 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

Quality integrated surgical care:

Dr. Mary-Anne Aarts continues as the site lead for Best Practice in Surgery and Enhanced Recovery after Surgery (ERAS). Dr. Aarts and Dr. Jamie Cyriac have been instrumental in the development and growth of our bariatric surgery program. We are looking forward to developing stronger relationships with our community partners to bring post-operative and medical bariatric care closer to home for our patients.

Our Division of Orthopedic Surgery, a major focus for our Department, sets the standard for fiscally responsible quality patient-focused care. Our surgeons, anesthesiologists and nursing partners have been successful in dropping the wait times for surgery for hip fracture to one of the lowest levels in the city.

Under the leadership of Dr. Peter Weiler, our Division of Orthopedic Surgery has successfully reduced the length of stay (LOS) for post-operative patients by standardizing the surgical care, postoperative care plans and engaging the entire multiprofessional team.

Dr. Hany Sawires continues to lead the growth of our multidisciplinary Breast Diagnostic Clinic. The clinic focuses on breast cancer diagnosis and treatment however our clinic welcomes patients with any and all breast health concerns.

The Department of Surgery’s thoracic surgery team (Dr. Robert Zeldin, Dr. Carmine Simone and Dr. Najib Safieddine) and the Division of Respirology have launched Toronto’s first multidisciplinary Chest Centre which will serve as a “one-stop shop” for patients with any thoracic or respiratory health problem.

We are expanding our telmedicine 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.

We have re-located the endoscopy, bronchoscopy, cystoscopy and minor surgery suites to a large dedicated space 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 making a “one-stop shop” for patients in our community. Our efforts were recognized by the MOHLTC as “innovative and ground breaking”.

Our Department is committed to supporting multidisciplinary surgical care to our community and strives to expand our services to include areas of specialization not otherwise offered at MGH. Our partnership with Sunnybrook Health Sciences Centre continues to grow and will expand to include:

- Robotic Urology surgery program;
- Cardiac surgery as part of our comprehensive cardiology program;
- Radiation Oncology (credentialed through Department of Surgery) as part of our thoracic, breast, colon and prostate oncology programs.
Multidisciplinary Surgical Oncology:

We continue to work with our partners at the Odette Cancer Centre to strengthen our partnership. Our surgical oncology program continues to be a major focus for our Department. We are proud to represent our organization at Cancer Care Ontario (CCO) and have representation on several quality improvement committees at CCO in areas such as Lung Cancer, Esophageal Cancer, Prostate Cancer, Colon Cancer and Palliative Care. MGH surgeons are participating in CCO working groups developing quality standards for Endoscopy (Dr. C. Simone), Lung Cancer Screening (Dr. R. Zeldin), Lung Cancer Treatment (Dr. N. Safieddine, Dr. C. Simone) and Prostate Biopsy (Dr. R. Singal).

The Thoracic Surgery program continues to be a major oncology focus for the organization. With strong collaborations with our Division of Medical Oncology and Respiratory, and our partnerships with Odette Cancer Centre, North York General Hospital, Royal Victoria Hospital and the University of Toronto Division of Thoracic Surgery, the MGH Thoracic Program is recognized as a shining example of collaborative, multidisciplinary, inter-hospital care providing exceptional service to one of the largest geographic areas in the province.

Dr. Paul Bernick and Dr. W. Appell have led the launch of our multi-disciplinary Colon Diagnostic Program – another example of collaboration between our Departments of Medicine and Surgery at MGH.

Teaching:

The MGH Department of Surgery is still one of the most popular Departments for learners and is recognized within the University of Toronto as a leader in surgical education. The Department accepts medical students, surgical residents, family medicine residents, internal medicine residents, and surgical fellows from within Canada and internationally.

The Department teaching effectiveness score (TES) for residents continues to be above the city median TES. We have 10 of our surgeons (48% of our Department) have TES above the University mean and 2 of our surgeons have the highest University TES within their respective Division. Of note, the Division of Orthopedics was the highest ranked division by orthopedic surgery trainees at the University of Toronto.

We have developed a core PGY3 general surgery rotation in Thoracic Surgery for University of Toronto learners. MGH Department of Anesthesia has established a core thoracic anesthesia rotation for PGY5 anesthesia residents that serves as an example of the collaborative spirit of our Health Service members.

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

Patient engagement:

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.

I am looking forward to working with all of our University colleagues and partners to continue to grow our program and our involvement in our community.
The Division of Cardiac Surgery at the Peter Munk Cardiac Center continues to enjoy strong growth in its clinical and academic programs. During the 2015-16 academic year, several new initiatives were advanced pairing clinical activity with academic interest.

Dr. R.J. Cusimano hosted the First International Cardiac Tumour Symposium which has now secured funding to be an annual event for the next five years. This unique multidisciplinary conference brings together experts from surgery, imaging, oncology and medicine to delineate best therapy for patients with these rare tumours. Dr. Cusimano was formally appointed as the Program Director for the University Division’s residency training program and received the inaugural Stacey and David Cynamon Professorship in surgical education and innovation.

Dr. Terrence Yau spearheaded the NIH sponsored LVAD-Stem Cell trial evaluating myocardial recovery in patients being supported by a mechanical circulatory support device. Patients are randomized to placebo vs allogeneic stem cells at the time of VAD implant and Dr. Yau serves as the overall study PI overseeing 30 clinical sites in North America.

Dr. Maral Ouzounian is hosting the first Toronto Heritable Aortic Disease Conference in September 2016. This joint initiative with the Division of Vascular Surgery, Diagnostic Imaging and Genetics will bring together an international faculty to review current management of patients with familial aortopathies.

Dr. Vivek Rao is the incoming President of the Canadian Society of Cardiac Surgeons and has been nominated to the Council of the Canadian Cardiovascular Society.

The Division of General Surgery has had another very successfully year with several notable accomplishments in the clinical arena, research and teaching.

A number of Faculty members were recipients of prestigious grants and awards. Mark Cattral received a CIHR grant to study Vascularized regenerative biomaterials for medical devices and cell therapy. Catherine O’Brien received a CIHR foundation grant to for her project titled Colorectal cancer stem cell plasticity: A novel therapeutic target.

Gonzalo Sapisochin was awarded the Rising Star Award at the International Liver Transplant Society Annual Meeting. Paul Greig delivered the Living Legend Lecture at the International Pancreatic Hepatobiliary Association Congress in Sao Paulo in April, 2016. Fayez Quereshy was awarded the Robert Mustard Mentorship Award from the Division of General Surgery, University of Toronto, and also received the Frank Mills Award for Excellence in Teaching by a Faculty Member. David Urbach’s perspective on Pledging to Eliminate Low-Volume Surgery was published in the New England Journal of Medicine.
Several faculty members were appointed to important leadership positions. Alice Wei is the new President of the Ontario Association of General Surgeons. Timothy Jackson is the Secretary of the Ontario Association of General Surgeons. Fayez Qureshy was appointed as the Medical Director of the Toronto Western Operation Room. David Urbach has been named Surgeon-in-Chief at Women's College Hospital.

In the clinical arena, Dr. Eran Shlomovitz performed the first Peroral Endoscopic Myotomy (POEM) procedure for a patient with achalasia.

Visiting Professors to the Division included Dr. David Kooby, who served as the 2016 John Palmer Professor. Dr. Kooby, the Chief of Surgery at Emory University School of Medicine in Atlanta, Georgia, presented on Minimally Invasive Pancreatic Resection. Dr. Harley Stern, the CEO of the Canadian Medical Protective Association served as the Crossgrose Lecturer for 2016. Dr. Stern presented on Medical/Surgical Careers are not Necessarily What You Think They Will Be, or What Was I Thinking When I Became the CEO of the CMPA? In September 2015, Professor O James Garden, the Regius Professor of Clinical Surgery at the University of Edinburgh delivered the Langer Lecture: Academic Surgery – Where will the next generation come from?

On June 8, 2016, General Surgery hosted the Traveling Surgical Society of Great Britain and Ireland for their inaugural visit to Canada. General Surgery designed a day of academic presentations and tours to showcase clinical and research advances in General, Vascular, Thoracic and Transplant Surgery at UHN.

### DIVISION OF NEUROSURGERY

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<tr>
<th>M. Bernstein, MD</th>
<th>E. Massicotte, MD</th>
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<td>M. Fehlings, MD</td>
<td>I. Radovanovic, MD</td>
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<td>S. Kalia, MD</td>
<td>M. Tymianski, MD</td>
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<td>P. Kongkham, MD</td>
<td>T. Valiante, MD</td>
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<td>A. Lozano, MD</td>
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Dr. Bernstein completed a clinical fellowship in Palliative Care. Dr. Fehlings continues to lead the CSM-Protect and the RISCIS-Protect trials of riluzole for spinal cord disorders, and has received grants from the Ontario Institute for Regenerative Medicine, Canadian Institute for Health Research (CIHR), the Krembil Foundation, the Rick Hansen Institute, the US Department of Defense and the Paralyzed Veterans of America. Dr. Gentili became the inaugural recipient of the Crecan Hotson Chair in Skull Base Surgery. Dr. Hodae was the scientific chair of the World Society of Stereotactic and Functional Neurosurgery meeting in September 2015 and was promoted to the position of full Professor in July 2016. Dr. Kalia was invited faculty at World Society for Stereotactic and Functional Neurosurgery Meeting and the World Movement Disorders Meeting. Dr. Kongkham was awarded a 2-year Innovations Grant from the Canadian Cancer Society Research Institute for his work studying DNA methylation and hydroxy-methylation in human gliomas. Dr. Lozano completed a clinical trial for deep brain stimulation in Alzheimer's Disease and a clinical trial of Focused Ultrasound for tremor. He was elected to the European Academy of Science, and received the Order of Canada. Dr. Massicotte is working with Altum Health to provide a new early assessment program for injured workers with mild traumatic brain injury or concussions. Dr. Radovanovic passed his 3-year Continuing Appointment Review (CAR). Dr. Shanjii also passed his 3-year CAR, and received awards form the American Association of Neurological Surgeons and the Congress of Neurological Surgeons for various clinical and basic science research projects related to spine-mediated neuropathic pain and was promoted to the research committee of AO Spine NA from which he was also awarded a grant to support his scientific work. Dr. Valiante received two neuromodulation related epilepsy grants for closed loop control of seizures—one CIHR and the other CHRP (CIHR-NSERC partnered), and was promoted to a scientist position at the Krembil Research Institute. Dr. Tymianski became the inaugural Harold & Esther Halpern Chair in Neurosurgical Stroke Research. Received a grant from HSFC, Began enrollment in the Phase 3 FRONTIER stroke trial, and obtained regulatory approval to begin the global, multi-center ESCAPE-NA-1 trial. Dr. Zadeh was elected as the Society of Neuro-oncology Secretary/Treasurer, Appointed as Board of Director North American Skull Base Society, Appointed at Tumor Section American Association of Neurosurgery Executive Committee, organized the first Scientific Meeting of International SNO-University of Toronto Meningioma Conference and have founded the International Meningioma Consortium. She has received four peer reviewed grants, x2 CIHR and x1 CCSRI and OCI Collaborative Grant.

### DIVISION OF ORTHOPEDIC SURGERY

The Orthopaedic Division had another very successful year. Dr. Ogilvie-Harris was promoted to Full Professor in the Department of Surgery at the University of Toronto. Dr. Steve Lewis was awarded the Wightman Berris Academy Award at the University of Toronto for Individual Teaching Performance. He also received the Whitecloud Award for Best Clinical Paper: International Meeting on Advanced Spinal Techniques (IMAST).

Dr. Raj Rampersaud led a 130 investigator national multi-centre team grant for a CIHR chronic disease SPOR grant on musculoskeletal pain. Dr. Rampersaud also co-chaired the Provincial QBP panel for low back pain. Dr. Jas Chahal in collaboration with the other members of the Division is continuing to lead the first North American clinical trial of autologous Mesenchymal Stem Cells for the treatment of knee osteoarthritis. Dr. Mohit Kapoor in collaboration with Dr. Rampersaud discovered and patented two novel bio makers involved in the inflammatory process of spine osteoarthritis. Dr. Rajiv Gandhi completed the 2015 American British Canadian (ABC) travelling fellowship. This is the most prestigious Orthopaedic travelling fellowship in the world for mid-career academic orthopaedic surgeons. Dr. Johnny Lau hosted the DAF International Travelling Fellowship Site for 2015 and was the Co-Chair of the 12th Biennial Canadian Orthopaedic Foot and Ankle Symposium held April 14-16, 2016. There were approximately 275 attendees. It is the largest national foot and ankle meeting in Canada.

Overall, the division published over 100 peer reviewed publications 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 $42 million.
We are pleased to welcome Heidi Barnett, as the Research Consortium Manager for the CIHR Foundation Scheme Program Grant 2015 – 2020 to help with the Development of a National Quality Improvement Program in Postmastectomy Breast Reconstruction to Optimize the Patient-Centred Experience.

Dr’s Anne O’Neill and Dr. Toni Zhong were guest speakers at the Annual Breast Reconstruction Awareness (BRA) Day which was held on October 19, 2015 at the Centre for the Arts, St. Michael’s College School. Dr. Hofer hosted the following Visiting Professors for Professors’ Rounds Sept. 25, 2016 – Mr. Jian Farhadi (London, UK) & Dr. Jaume Masia (Barcelona, Spain), Dr. Howard Langstein (Rochester, NY) in April 2016 and Dr. Henricus Giele (Oxford, UK) in May 2016. Members of the UHN Division were active for National outreach programs in Dryden – Northern Ontario and internationally in the outer Char regions of Bangladesh.

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 2015 – 2020. She is also a Co-investigator on another CIHR funded project ‘Establishing donor-specific transplantation tolerance by harnessing DN regulatory T cells’ and a CBCF funded project ‘Including quality of life in breast cancer funding policy decisions: development of a preference-based measure from the BREAST-Q’.

Toni Zhong was awarded with the George Armstrong Peters Prize for 2016 – 2017, Department of Surgery, University of Toronto and was invited to join the Women in Microsurgery Working Group of the American Society of Reconstructive Microsurgeons (ASRM).

Dr. Marika Kuuskeri and Dr. Anastassi Halka successfully completed the Microsurgical Fellowship Program July 2015 – June 2016. Dr’s Tanya DeLyzer and Jennifer Klok successfully completed the Breast Reconstruction Fellowship Program in July 2015 – June 2016. Dr. Amanda Roberts has successfully completed her 2-year clinical and research fellowship in Breast Surgery with Dr. Toni Zhong supervising on her project entitled Using a Novel Quality Metric Approach to Examine the Healthcare Utilization of Post-Mastectomy Breast Reconstruction: A Population-based Study and Jelena Slump completed her UHN portion of her PhD project supervised by Dr’s Hofer and O’Neill and the Sarcoma team from Mount Sinai Hospital.

We have partnered with Dr. Paul Santerre and graduate student researchers from the Institute of Biomaterials and Biomedical Engineering and the Faculty of Dentistry at the University of Toronto who are coaching adipose tissue –derived stem cells to regenerate artificial blood vessels that may someday be used to treat patients suffering from coronary artery disease and peripheral vascular disease.

During the 2015 – 16 academic year, division members have published [18] peer-reviewed papers, presented [24] scientific papers at the following International Meetings: The American Society of Breast Surgeons in Dallas, Texas (3); The American Society for Reconstructive Microsurgery meeting in Scottsdale, Arizona (3); The American Society of Plastic Surgeons/ Plastic Surgery Research Council joint annual meeting in New York City, NY (2). A total of [28] invited lectures were delivered at the following International Meetings: The European Society of Plastic and Aesthetic Surgery (EURAPS) Meeting in Edinburgh in May 2015; London Breast Meeting in London, UK in September 2015; The British Association of Plastic Reconstructive and Aesthetic Surgeons (BAPRAS) Winter Scientific Meeting in Birmingham, UK in Nov 2015; The MAYO Clinic, Scottsdale, Arizona; the 4th International Breast Symposium in Dusseldorf in April 2016; the Scandinavian Plastic Society meeting in June 2016; and Modern Concepts in Breast Reconstructions and Aesthetics meeting in Coventry, UK in July 2016.

The Division of Thoracic Surgery at UHN had a very good year in 2015-16. Dr. Kazuhiro Yasufuku was awarded the Gustav Killian Centenary Medal at the 19th World Congress of Bronchology and Interventional Pulmonology Meeting in Florence and the University of Toronto Faculty of Medicine, Ivan Silver Innovation Award at The Faculty of Medicine’s 14th Annual Education Achievement Celebration. Dr. Shaf Keshavjee was awarded the Dr. Joel Cooper Award from the Canadian Society of Transplantation and appointed as Treasurer for the American Association of Thoracic Surgery. Dr. Marc De Perrot was appointed a member of the Mesothelioma Task Force for the International Association for the Study of Lung Cancer, recognizing his growing reputation in this field.

Dr. Cypel was a Co-Principal Investigator on a CIHR grant entitled “Supervised in vivo lung perfusion strategy for treatment of cancer metastases to the lungs. Real time monitoring of chemotherapy by on-site analytical platform” continuing on from his expertise in isolated perfusion of the lung. Dr. Yasufuku continues to grow his research program with funding from CCSRI for a project on “Ultra-minimally invasive multi-modal image guided therapeutics of lung cancer”. In celebrating Pearson Day, the event that annually recognizes the clinical and laboratory research completed by trainees in our Division, we welcomed Dr. Tommy D’Amico as our Visiting Professor and keynote speaker. Dr. Anna Bendaszak and Dr. Tatsuya Kato were awarded Best Clinical Research Paper and Best Basic Science Research Paper Honours respectively.

Yet another highly successful Endobronchial Ultrasound Training Course was followed by the internationally attended Toronto Thoracic Refresher Course was carried out in June 2016. Speakers at the Refresher Course included the highly regarded Dr. James Bond, Dr. Walter Klepetko, Dr. John D. Mitchell as well as Dr. David C. Rice who participated in both the Refresher and EBUS courses. Dr. De Perrot organized a very well received course on thromboembolic lung disease for a variety of physicians including primary care.

Lastly, we are happy to note the cross appointment of Dr. Kasia Czarnecka to the Department of Surgery, and welcomed both Dr. Laura Donahoe, with a special interest in pulmonary thromboendarterectomy and mesothelioma and Dr. Jonathan Yeung, with a special interest in lung transplantation and esophageal surgery, as Clinical Assistants to the group at UHN.
DIVISION OF UROLOGY

D. Elterman, MD M. Jewett, MD
A. Finelli, MD G. Kulkarni, MD
N. Flesnher, MD S. Radomski, MD
M. Hassouna, MD M. Robinette, MD
R. Hamilton, MD J. Trachtenberg, MD

The Division Of Urology has had a productive academic year. We currently span 11 geographic full-time faculty spanned. 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. The Division Of Urology had a solid year in terms of peer-reviewed grant capture. The following faculty served as PIs or Co-Pis on peer-reviewed grants totaling over 3.5 million dollars. Dr Peter Schlegel was invited to be the Robson Professor for this academic year.

Dr. Tony Finelli became Division Chief at the UHN in November 2015. He continued his research in prostate and kidney cancer and was invited to lead an ASCO guideline in the management of Small Renal Masses. He continues to hold peer-reviewed grants from OICR, Prostate Cancer Canada and Movember. He was an invited speaker in Canada, USA, Australia, and Europe. Most notably he was invited to participate in a “Crossfire Debate” at the American Urological Association; particular sessions that are attended by more than 1000 registrants. Dr. Finelli continued in his role as the GU Cancer Lead at CCO.

Dr. Neil Fleshner 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 and NIH. He was invited speaker at meetings in Canada, U.S, Israel, Australia and Europe. He continued as the holder of the Love Chair in Prostate Cancer Prevention at the Princess Margaret Hospital.

Dr. Michael Jewett continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. The funding is from CIHR, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC and Pfizer.

He continued as the Wyeth/CIHR Clinical Research Chair in Oncology. He was an invited speaker and/or visiting professor in North America, Europe, Middle East and Asia. He completed Inaugural Chairmanship of the Kidney Cancer Research Network of Canada (KCRNC) and was elected to the Board of the International Kidney Cancer Coalition (IKCC).

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 transitioned out of his clinical practice but continued his work on focal therapy in Prostate cancer.

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

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

Dr Robert Hamilton received numerous peer-reviewed grants from CCSRI, CUA and internal PMH funds. He continues his work on stasis, SNP's and prostate cancer. He was an invited speaker throughout Canada. Rob continued as chair of International Movember GAP5 Testis cancer translational project

Dr. Alexandre Zlotta continued in his position as Associate Editor of European Urology, one of the premier journals in urology. He was invited speaker and/or Visiting Professor to Europe, Asia and South America. He continued his research with funding from Ontario Institute for Cancer Research, CIHR, Canadian Cancer Society Research Institute, and the Canadian Uro-oncology Group.

DIVISION OF VASCULAR SURGERY

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

The 2015/2016 academic year has continued to be productive for the Division of Vascular Surgery at University Health Network. A key focus of the Division’s clinical practice are the multispecialty collaborations that offer areas of focused tertiary expertise in: arteriovenous malformations diagnosis and therapy; open and advanced minimally invasive EVAR therapy for all types of aortic aneurysms and aortic dissection; thoracic outlet syndrome. These programs continue to evolve resulting in increasing referral complexity, the interventions required for treatment and innovative approaches to therapy being employed. A key theme has been the transition to minimally invasive care for many of the conditions being treated. The collaborations with interventional radiology, cardiac surgery continue to evolve to enhance patient therapy.

During 2015/6 further efforts to provide vascular surgery coverage in Thunder Bay and the surrounding regions continues. Official funding of the program from the MOHLTC has yet to be realized however the Division continues to support this effort. It is anticipated that UHN Vascular Surgery Division will assist with recruitment of an additional vascular surgeon for this region this year.

Research activities of the Division continue to progress with both basic investigations in the lab of Drs Byrne and Robbins and engineering science with Dr Forbes, Dr Amon and Dr Mathew Doyle. The Division has continued involvement in major clinical trials (BEST CLI), stem cell therapy for CLL as well as intervention trials with industry. The Division continues to work in conjunction with its partners at St. Michael’s and Sunnybrook to fund international fellows for advanced clinical training as well as the support of the University Divisional Citywide rounds and K Wayne Johnston lecturer at the annual research day. The Division members continue in diverse senior leadership roles: Dr Rubin (PMCC Program Medical Director, Chairman UHN Mt Sinai AMO), Dr Forbes (University Division Chair, Journal of Vascular Surgery Associate Editor) Dr Lindsay (Chair, Royal College Vascular Surgery Specialty Committee), Dr Oreopoulos (Vascular Surgery Program Director, Director Of Postgraduate Surgical Education UHN) and Dr Roche–Nagle (UHN Lead Radiation Safety and Vascular Quality Initiative).
Cardiac Surgery

Dr. M Badiwala  
Assistant Professor

Dr. R.J. Cusimano  
Associate Professor

Dr. T. David  
Professor

Dr. C. Feindel  
Professor

Dr. R-K Li  
Professor

Dr. M. Ouzounian  
Assistant Professor

Dr. A. Ralph-Edwards  
Lecturer

Dr. V. Rao  
Professor (Division Head)

Dr. W. Stansfield  
Assistant Professor

Dr. R. Weisel  
Professor

Dr. T. Yau  
Professor

Publications


Lee MM, Li RK, Yau TM. Stem cell therapy for heart failure: Out with the new and in with the old? The Journal of Thoracic and Cardiovascular Surgery. 2015 Nov; 150(5): 1035-29.


AM, Argenziano M, Bagiella E, Overby JR, Moquete EG, Gupta LN, Miller MA, Taddei-Peters WC, Jeffries N, Weisel RD, Rose
41.


Nazarri M, Ni NC, Ludke A, Li SH, Guo J, Weisel RD. Li RK. Mast Cells promote proliferation and migration and inhibit differentiation
of mesenchymal stem cells through PDGF. J Mol Cell Cardiol. 2016 May;94:32-42.

Fully Magnetically Levitated Left Ventricular Assist System for Treating Advanced HF: A Multicenter Study. Journal of the American College of
Cardiology. 2015;66(23):2579-89.


Ouzounian M, Lindsay TF, Forbes TL. Remote ischemic preconditioning and thoracoabdominal aneurysm repair: Can an arm save a cord (or


Bodghwani M, Hassan A, Verma S, Dagenais F, Chu MW; Canadian Thoracic Aortic Collaborative Investigators. Knowledge,
attitudes, and practice preferences of Canadian cardiac surgeons toward the management of acute type A aortic dissection. J Thorac Cardiovasc

Quintana MT, He J, Sullivan J, Grevengoed T, Schisler J, Han Y, Hill JA, Yates CC, Stansfield WE, Mapanga RF, Essop MF,
Muehlbauer MJ, Newgard CB, Bain JR, Willis MS. Muscle ring finger-3 protects against diabetic cardiomyopathy induced by a high fat diet.

Rao V. Resurgence of extracorporeal support for the primary management of cardiogenic shock. The Journal of Thoracic and Cardiovascular

Randolph G, Epelman S, Gramolini AO, Cybulsky M, Rubin BB, Robbins CS. The origin and maintenance of resident arterial

Shao Z, Nazari M, Guo L, Li SH, Sun J, Liu SM, Yuan HP, Weisel RD, Li RK. The cardiac repair benefits of inflammation do not persist:

Shuvy M, Guo H, Wijesundera HC, Feindel CM, Cohen EA, Austin PC, Kingsbury K, Natarajan MK, Tu JV, Ko DT. Medical
Therapy and Coronary Revascularization for Patients With Stable Coronary Artery Disease and Unclassified Appropriateness Score. Am J Cardiol.

Apr;151(4):e64-5.


Svensson LG, Gillinov AM, Weisel RD, Keshavjee S, Bacha EA, Moon MR, Cameron DE, Sugarbaker DJ, Adams DH, Gaynor JW,
Coselli JS, Del Nido PJ, Jones D, Sundt TM, Cohn LH, Pomer JL, Lytle BW, Schaff HV. The American Association for Thoracic Surgery

Tourmousoglou C, Rao V, Lalos S, Douchen D. What is the best approach in a patient with a failed aortic bioprosthetic valve: transcatheter


Wu J, Song HF, Li SH, Guo J, Tsang K, Tuniati L, Butany J, Yau TM, Ouzounian M, Fu S, David TE, Weisel RD, Li RK.


Invited Visits

David, Tirone E. European Association for Cardio-Thoracic Surgery, Windsor, United Kingdom, July 10, 2015. Invited Lecturer: The David
Operation: a successful story “Advanced Aortic and Mitral Valve Reconstruction Surgery Course


Li, Ren-Ke. International Academy of Cardiovascular Sciences, Omaha, Nebraska, September 11, 2015. Invited Speaker: Cardiac rejuvenation: A new frontier in the management of heart failure.


Li, Ren-Ke. John A. Burns School of Medicine, University of Manoa, Honolulu, Hawaii, February 18, 2016. Invited Speaker: Cardiac rejuvenation to prevent heart failure in aged patient.

Li, Ren-Ke. Delhi Pharmaceutical Sciences and Research University, New Delhi, India, April 22, 2016. Invited Speaker: Novel Conductive Biomaterial to Prevent Cardiac Arrhythmia.

Li, Ren-Ke. Shandong Provincial Hospital, Jinan, Shandong, China, May 23, 2016. Invited Speaker: Stem Cell Therapy after Myocardial Infarction.


Yau, Terrence M. Libin Cardiovascular Institute, Calgary, Alberta, June 2, 2016. Invited Speaker: How to do translational research: Setting up a clinical cardiac stem cell therapy program.

Research and Investigations

A historical review of medical treatment and care of the adult with congenital heart disease. Ryerson University. Lapum J, Fredericks S, Yau T. ($6,000.00 CAD 2016).

A new growth factor, CNPY2, to induce angiogenesis after cardiac ischemia. Heart and Stroke Foundation of Canada (HSFC). Li RK. ($268,103.00 CAD 2015/07-2018).


Pre-clinical Development of a Novel Umbilical Cord Perivascular Cell-Based Therapy to Prevent Heart Failure. Ontario Research Fund (ORF). Li RK. ($1,253,767.00 CAD Aug 2015 – Nov 2018).

Rejuvenation of aged cells and recipients to enhance cardiac regeneration and prevent progressive heart failure. Canadian Institute of Health Research (CIHR). Li RK, Weisel RD. ($2,495,382.00 CAD Jan 2015 – Jul 2022).


OUTREACH AND COMMUNITY ENGAGEMENT
Honours and Awards


Li, Ren-Ke: Fellowship, International Academy of Cardiovascular Sciences. 2015/10

Ouzounian, Maral: Adult Cardiac Surgery Poster Competition, 1st prize, American Association for Thoracic Surgery. 2015.

Rao, Vivek: Honorary Fellow, Indian Association of Cardiothoracic Surgeons.

Division of General Surgery

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Dr. M.S. Cattral</td>
<td>Professor</td>
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<tr>
<td>Dr. S.P. Cleary</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A.M. Esson</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. J. Escallon</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A. Gagliardi</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. S. Gallinger</td>
<td>Professor</td>
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<tr>
<td>Dr. A. Ghanekar</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. D. Grant</td>
<td>Professor</td>
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<tr>
<td>Dr. P. Greig</td>
<td>Professor</td>
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<td>Dr. T. Jackson</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. W.L. Leong</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. D. McCready</td>
<td>Professor</td>
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<tr>
<td>Dr. I. McGilvray</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. C-A.E. Moulton</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. C. O'Brien</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. A. Okrainec</td>
<td>Associate Professor (Division Head)</td>
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<tr>
<td>Dr. T. Penner</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. F.A. Quereshy</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. M. Reedijk</td>
<td>Professor</td>
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<tr>
<td>Dr. L.E. Rotstein</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. G. Sapioschin</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. M. Selzner</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. E. Shiomovitz</td>
<td>Professor</td>
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<tr>
<td>Dr. D.R. Urbach</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A. Wei</td>
<td>Associate Professor</td>
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Publications


Invited Visits


Easson, Alexandra M. Committee on Surgical Palliative Care Skills Course- Palliative Surgical Care, American College of Surgeons, Chicago, Illinois, Oct 6-7, 2015. 1) Invited Speaker: How to handle patients and families who want “everything done”. 2) Facilitator: Surgical Palliative Care Interest Group Research Presentations and Networking Meeting.


Gallinger, Steven. World Pancreatic Cancer Coalition (WPCC), Glasgow, United Kingdom, June 9, 2016. Invited Speaker: Germline Predisposition to Pancreatic Cancer.


Greig, Paul. AHPBA & IHPBA Congress, Sao Paulo, Brazil, April 22, 2016. Distinguished Speaker: The History of Liver Transplantation - “Living Legend”.


Research and Investigations

2018 Normothermic Ex Vivo Kidney Perfusion for the Storage, Assessment and Repair of Marginal Kidney Grafts. Canadian National Transplant Research Program (CNTRP); Canadian Institute of Health Research (CIHR). Selzner M. ($70,000.00 CAD 2016).


A systematic review, modified Delphi survey and Canadian consensus conference on contralateral prophylactic mastectomy for non-high risk women with unilateral early stage breast cancer or DCIS. Canadian Institutes of Health Research, Wright FC, Baxter NN, Covelli A, Gagliardi AR, Look Hong N, Quan ML. ($10,000.00 CAD Apr 2016 – Mar 2017).


Genome-Wide Association Study (GWAS) in Hepatocellular Carcinoma. National Cancer Institute (USA). Cleary SP, Hassan M. ($3,361,045.00 USD Apr 2015 – Apr 2020).

Moving knowledge into action for more effective practice, programs and policy: A research program focusing on integrated knowledge translation. 

**Canadian Institutes of Health Research. Graham I, Pan-Canadian Team (Gagliardi AR member).** ($3,318,872.00 Jul 2015 – Jun 2022).

Normalthermic Ex Vivo Liver Perfusion for the Assessment and Repair of Marginal Liver Grafts. Private Philanthropic Donation, TGTW Hospital Foundations. Selzner M. ($66,630.00 2015).

Rocuronium and Midazolam Metabolomics for the Assessment of Liver Grafts During Subnormothermic Ex Vivo Liver Perfusion. Canadian National Transplant Research Program (CNTRP); Canadian Institute of Health Research (CIHR). Selzner M. ($25,000.00 CAD 2016 – 2018).


**Honours and Awards**

**Easson, Alexandra M.** Best poster in original research. Canadian Association of Physician Assistants. A proposed physician assistant-led discharge program to reduce emergency department visits within 30 days of discharge after surgical admission. October 2015.


**Greig, Paul:** Sarita Verma Award for Advocacy and Mentorship in Postgraduate Medicine, University of Toronto. February 2016.

**Greig, Paul:** Living Legend Award, Americas Hepato-Pancreatico-Biliary Association (AHPBA). April 2016.

**McCready, David:** Best Surgical Oncology Lecture Award, General Surgical Oncology Program, University of Toronto. Postgraduate MD Annual Award to the best lecturer in the General Surgical Oncology Program in the Department of Surgery, University of Toronto. 2015.

**Selzner, Markus:** 2015 CST Research Excellence Award, Canadian Society of Transplantation. July 2015.

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**Division of Neurosurgery**

| Dr. J.A. Bernstein | Professor |
| Dr. K.D. Davis | Professor |
| Dr. J. Eubanks | Professor |
| Dr. M. Ethlings | Professor |
| Dr. F. Gentili | Professor |
| Dr. C. Hamani | Associate Professor |
| Dr. M. Hodaie | Professor |
| Dr. W. Hutchison | Associate Professor |
| Dr. S.K. Kalia | Assistant Professor |
| Dr. P. Kongkham | 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 |

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**Publications**


Ahuja CS, Martin AR, Fehlings M. Recent advances in managing a spinal cord injury secondary to trauma. F1000Res. 2016 May 27;5.


Vaccaro AR.

Chapman JR, Vialle LR, Vaccaro AR.

Fehlings MG, Rajasekaran S, Kandziora F, Schnake KJ, Vaccaro AR.

Rumajogee P, Bregman T, Miller SP, Yager JY, Fehlings MG.

Jan 13;3:15051.

Rowland N, Kalia SK, Kalia LV, Larson P, Lim D, Bankiewicz K.


Vanegas N, Zaghloul KA, Cendejas-Zaragoza L, Verhagen L, Foote KD, Okun MS.


Shamji MF, Fehlings MG.


Tymianski M. Neuroprotective therapies: Preclinical reproducibility is only part of the problem. Sci Transl Med. 2015 Aug 5;7(299):299fs32.


Invited Visits


Davis, Karen Deborah. Pittsburgh Center for Pain Research; University of Pittsburgh, Pittsburgh, Pennsylvania, December 2015. Keynote Speaker: The “dynamic pain connectome” & the “pain switch” (an ouch detector): Two new pain concepts & the impact on developing a pain-o-meter.

Davis, Karen Deborah. NCCIH/NIH Pain Special Interest Group, Bethesda, Maryland, January 2016. Keynote Speaker: How does the brain represent pain? Insight from the new concepts of a dynamic pain connectome and the pain switch.


Fehlings, Michael. 4th International Spine Tumor Days, Dresden, Germany, April 8-9, 2016. Visiting Professor: Current concepts and outcome for patients with symptomatic spinal cord compression due to metastatic spine disease.


Gentili, Fred. Department of Neurosurgery, West Virginia University School of Medicine, West Virginia, March 29-30, 2016. Visiting Professor.


Hamani, Clement. Association for Assisting Children with Deficiency, Sao Paulo, Brazil, July 18, 2015. Invited Speaker: DBS in Parkinson’s Disease and Dystonia.


Hodaie, Mojgan. World Federation of Neurosurgical Societies (WFNS) Radiosurgery Course, New Delhi, India, March 5-6, 2016. Invited Speaker: 1) Imaging in Functional Radiosurgery Medanta Hospital-Gurgaon. 2) Functional Radiosurgery - beyond trigeminal neuralgia Medanta Hospital-Gurgaon.

Hodaie, Mojgan. 11th Asian Congress of Neurological Surgeons 2016 in conjunction with the 21st Annual Scientific Meeting of Indonesian Society of Neurological Surgeons, Surabaya, Indonesia, March 8-12th, 2016. Keynote Speaker: 1) Gamma Knife thalamotomies - indications and techniques (Movement Disorders workshop and live surgery course, Stereotactic Treatment for Movement Disorders: “Practical Approach in Asia”). 2) Structural brain imaging of pain: increasing objectivity to guide surgical decision making. 3) Use of advanced imaging modalities for target selection in neuro modulation.


Kalia, Suneil. NSERC-CREATE Program in Neuroengineering, McGill University, Montreal, Quebec, April 7, 2016. Invited Speaker: Molecular Control of the CNS — Neuromodulatory challenges.

Kalia, Suneil. 20th International Congress of PD and Movement Disorders, Berlin, Germany, June 20-21, 2016. Invited Speaker: Optimizing the management of the DBS patient – Skill Workshop.


Lozano, Andres M. Harvard University, Boston, Massachusetts, March 10, 2016. Visiting Professor: Activating memory circuits with deep brain stimulation: Implications for Alzheimer's disease.


Lozano, Andres M. University of Santiago of Compostela (USC), Santiago, Spain, March 14, 2016. Keynote Speaker: Deep brain stimulation in behavioural disorders and memory.


Lozano, Andres M. University of Calgary, Calgary, Alberta, April 22, 2016. Visiting Professor: The possibility of deep brain stimulation for Alzheimer's disease.


Tymianski, Michael. 1st EC IC bypass course, Royal Adelaide Hospital, Adelaide, Australia, September 22, 2015. Invited Speaker.

Tymianski, Michael. Neuroscience seminar series, Ohio State University, Columbus, Ohio, October 25, 2015. Invited Speaker: Translational paradigms for stroke neuroprotection trials.


To identify potential biomarkers of response to Marizomib treatment in GBM patients.


Research and Investigations

Chemiluminescence, fluorescence multi-well plate reader for protein complementation assays. Kalua S. ($30,000.00 CAD 2015).


To identify potential biomarkers of response to Marizomib treatment in GBM patients. Triphase. Zadeh G. ($240,000.00 CAD 2015).

Honours and Awards


Fehlings, Michael: Leaders Circle Recognition Award. Awards honour the recipient’s contributions in bringing international meetings to Toronto. Dr. Fehlings received two awards for bringing the 2018 Symposium of the International Neurotrauma Society and the 2019 Global Spine Congress to Toronto. June 2016.

Lozano, Andres M: Honorary Member, Spanish Society for Stereotactic and Functional Neurosurgery. 2015.

Lozano, Andres M: Honorary Member, Western Neurological Society. 2015.


Lozano, Andres M: Devotion to Science Award, University of Salerno, Italy. 2016.


Zadeh, Gelareh: Alan Hudson Teaching Award, Division of Neurosurgery, Dept of Surgery, University of Toronto. 2015.

Zadeh, Gelareh: American Brain Tumor Association Young Investigator Award, American Association of Neurological Surgeons (AANS). 2015.

**Division of Orthopaedics**

- Dr. R.S. Bell: Professor
- Dr. J.R. Davey: Associate Professor
- Dr. M. Erwin: Assistant Professor
- Dr. R. Gandhi: Associate Professor
- Dr. J. Lau: Assistant Professor
- D. S. Lewis: Assistant Professor
- Dr. N.N. Mahomed: Professor (Division Head)
- Dr. K.W. Marshall: Assistant Professor
- Dr. D.J. Ogilvie-Harris: Professor
- Dr. Y.R. Rampersaud: Associate Professor
- Dr. K. Syed: Assistant Professor
- Dr. C. Veillette: Assistant Professor

**Publications**


**Invited Visits**


Kapoor, Mohit. William Harvey Institute, Queen Mary University of London, London, United Kingdom, 2015. Invited Speaker: Can we stop/delay the process of cartilage degeneration?

Kapoor, Mohit. World Congress on Bone, Muscle and Joint Diseases (BMJD), Montreal, Quebec, 2015. Invited Speaker: microRNAs as potential OA Biomarkers.


Lewis, Stephen.  Based Medicine for Biologics in Sports Foot/Ankle Injuries.  3) Rational Approaches for the Acute and Chronic Ankle Syndesmotic Injuries.  4) Approach to the Painful Ankle Fusion.  5) Evidence Based Medicine for Biologics in Sports Foot/Ankle Injuries.

Lau, Johnny.  Subtalar Fusions.  2) Hallux Rigidus: Update.  3) Peroneal Tendon Pathology.


Lewis, Stephen.  Subtalar Fusions.  2) Hallux Rigidus: Update.  3) Peroneal Tendon Pathology.

Lewis, Stephen.  2015 Spine Fellow Graduation, Washington University School of Medicine, Missouri, July 24, 2015. Visiting Professor:  1) Extending your skills: Problem solving and innovation in spine surgery.  2) Getting started in your practice: How to make an impact.


Research and Investigations


Honours and Awards


Lewis, Stephen: The Wightman-Berris Academy Teaching and Education Award.  Best Teachers from all Health Disciplines, from Mount Sinai, University Health Network and Community and Subspecialty Academy Sites.  May 2016.

Waddell, James P: Distinguished Service Award, Ontario Orthopaedic Association. For dedication and leadership in the Health Quality Ontario mandate to drive change on behalf of patients in Ontario.  July 2015.
Division of Plastic and Reconstructive Surgery

Dr. D. Anastakis  Professor
Dr. H. Baltzer  Assistant 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  Associate Professor
Dr. H.P. von Schroeder  Associate Professor
Dr. T. Zhong  Associate Professor

Publication


Invited Visits

Anastakis, Dimitri. Department of Biological Science, University of Windsor, Windsor, Ontario, September 14, 2015. Visiting Professor: Cortical Plasticity following Peripheral Nerve Injury, Repair and Rehabilitation.

Anastakis, Dimitri. Current Challenges in Canadian Health Care, Harvard School of Public Health, Boston, Massachusetts, December 5, 2015. Invited Speaker: 1) Provide an educator’s perspective to the challenges and opportunities facing the Canadian health care system. 2) Coordinated Continuing Professional Development aligned with system needs is critical to quality improvement and patient safety. 3) Simulation will play an important role in quality improvement and patient safety.


Hofer, Stefan. 4th International Breast Symposium Dusseldorf (IBSD), Dusseldorf, Germany, April 22nd - 23rd, 2016. Invited Speaker: 1) Anastomosis techniques in breast reconstruction. 2) Different Countries – Different Practice in Plastic Surgery.


McCabe, Steven J. Quebec Hand Society, Montreal, Quebec, 2015. Keynote Speaker: Strange Interactions in Workers’ Compensation.


Research and Investigations


Honours and Awards

Zhong, Toni: George Armstrong Peters Prize, Department of Surgery, University of Toronto. Awarded to a young investigator who has shown outstanding productivity during his/her initial period as an independent investigator as evidenced by research publications in peer reviewed journals, grants held, and students trained. May 2016.

Division of Thoracic Surgery

Dr. M. Cypel Associate Professor
Dr. G.E. Darling Professor
Dr. M. dePerrot Associate Professor
Dr. R.M. Gorczynski Professor
Dr. S. Keshavjee Professor
Dr. M. Liu Professor
Dr. A. Pierre Associate Professor
Dr. T.K. Waddell Professor (Division Head)
Dr. K. Yasufuku Associate Professor

Publications


Yasufuku K.


Invited Visits


Keshavjee, Shaf. 29th Annual Meeting European Association for Cardiothoracic Surgery, Amsterdam, Netherlands, October 5, 2015. Invited Speaker: Extracorporeal Therapies: There is much more beyond ECMO.


Yasufuku, Kazuhiro. Endobronchial Ultrasound: Safe and Effective Use Training Course, Centre de Recherche du CHUM, Montreal, Quebec, November 13, 2015. Invited Speaker: 1) Mediastinal Anatomy. 2) Specimen Sampling, Handling and Preparation for Sarcoidosis, Lymphomas, Small Lymph Nodes and Molecular Markers. 3) EBUS-TBNA.


Research and Investigations


Division of Urology

| Dr. D.S. Elterman | Assistant Professor |
| Dr. A. Finelli | Associate Professor (Division Head) |
| Dr. N.E. Fleshner | Professor |
| 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. Radomska | Professor |
| Dr. M. Robinette | Associate Professor |
| Dr. J. Trachtenberg | Professor |

Publications

Alibhai SM, Breunis H, Timilshina N, Naglie G, Tannock I, Krahn M, Warde P, Fleshner NE, Canning SD, Tomlinson G.

Atri M, Tabatabaeifar I, Jing HJ, Finelli A, Moshonov H, Jewett M.


Exosomal miRNAs are diagnostic biomarkers and can mediate cell-cell communication in renal cell carcinoma. EU Focus. 2016 Jun; 2(2):210-218.


Sahinalp C, Stein LD, Fleshner N, Shah SP, Collins CC, Hudson TJ, McPherson JD, van der Kwast T, Bristow RG.

Elterman DS.

Fleshner NE.


Cancer stem cells are underestimated by standard experimental methods in clear cell renal cell carcinoma. Scientific Reports. 2016 Apr 28;6:25220.


Moreira DM, Fleschner NE, Freedland SJ. Baseline perineural invasion is associated with shorter time to progression in men with prostate cancer undergoing active surveillance: results from the REDEEM study: Journal of Urology. 2015 Nov; 194(5): 1258–63.


Invited Visits


Finelli, Antonio. American Urological Association, California, May 6–9, 2016. Presenter: 1) The natural history of renal function after surgical management of renal cell carcinoma: results from the Canadian Kidney Cancer information system. 2) A comprehensive competing risk calculator for patients with cortical renal masses 10cm: A novel clinical decision aid for shared decision-making regarding individualized treatment selection. 3) Canadian consensus guidelines for sexual rehabilitation following prostate cancer treatment. 4) Chemoprevention in kidney cancer: survival outcomes in diabetics. 5) A phase II, randomized, open label study of neoadjuvant degarelix versus LHRH agonist in prostate cancer patients prior to radical prostatectomy. 6) The role or prostate cancer antigen 3 (PCA3) test and multi-parametric prostatic magnetic resonance imaging (MPMRI) among patients with prior negative biopsy: correlation with radical prostatectomy pathology. 7) Validating the bladder utility symptom scale (BUSS); A novel patient reported outcome quality. 8) Long-term oncologic outcomes of radical prostatectomy in a large cohort of patients on active surveillance. 9) Does perineural invasion on initial prostate biopsy predict higher risk of progression in patients on active surveillance for prostate cancer? 10) Is re-section necessary? Re-section of non-muscle invasive bladder cancer at a tertiary care centre. 11) Outcomes of radiation following expectant management for low risk, localized prostate cancer.


Finelli, Antonio. ASCO 2016, Illinois, June 2016. Presenter: Toronto, Canada Effect of abiraterone acetate (AA) and enzalutamide (EZ) administration on chemotherapy-naïve metastatic castration-resistant prostate cancer (CN-mCRPC) patient’s symptom burden.

Fleshner, Neil. American Urology Association, San Diego, California, May 2016. Presenter: 1) Is re-resection necessary? Re-resection of non-muscle invasive bladder cancer at a tertiary care centre. 2) Molecular tumor grading of non muscle invasive bladder cancer based on whole transcriptome analysis. 3) The role of prostate cancer antigen 3 (PCA3) test and multi-parametric prostate magnetic resonance imaging (MPMRI) among patients with prior negative biopsy: correlation with radical prostatectomy pathology. 4) Does perineural invasion on initial prostate biopsy predict higher risk of progression in patient on active surveillance for prostate cancer? 5) Long term oncologic outcomes of radical prostatectomy in a large cohort of patients on active surveillance. 6) Propensity-matched comparison of survival outcomes in patients undergoing radical cystectomy versus bladder preserving trimodal therapy. 7) A Phase II, randomized, open label study of neoadjuvant degarelix versus LHRH agonist in prostate cancer patients prior to radical prostatectomy.

Fleshner, Neil. Canadian Urology Association, Vancouver, British Columbia, June 2016. Presenter: 1) Survival outcomes of trimodal therapy compared with radical cystectomy for muscle-invasive bladder cancer: A propensity score-matched analysis of survival outcomes. 2) Metformin use does not impact disease-specific mortality among diabetic patients with non-muscle invasive bladder cancer: A population-based analysis. 3) Quality assessment of the Canadian Prostate Cancer Biomarker Network platform using the validated prostate cancer biomarker nuclear factor-kappa B p56. 4) What false negative rate are active surveillance patients willing to accept in order to avoid prostate biopsy? 5) Precent Gleason pattern 4on prostate biopsy in patients with Gleason 7 (3+4) prostate cancer does not predict upstaging to T3/T4 at radical prostatectomy. 6) Prostate stereometry by transrectal ultrasonography and magnetic resonance imaging is significantly correlated to the actual volume measure after radical prostatectomy. 7) The burden of symptomatic skeletal events in castrate-resistant prostate cancer patients with bone metastases at three Canadian uro-oncology centres.


Jewett, Michael A. S. Dr. Ralph V. Clayman Festschrift Lecture, Newport Coast, California, August 21, 2015. Presenter: Evolving Management of Early Stage Kidney Cancer: from Pioneering MIS for All to Personalizing Patient Care by Tumor Type.


Jewett, Michael A. S. Ohio State University of Columbus, Columbus, Ohio, September 18, 2015. Presenter: 1) Evolving Management of Early Stage Kidney Cancer: Personalizing Patient Care by Tumor Type. 2) Update on Treatment Strategies for Testicular Cancer.


Jewett, Michael A. S. Memorial Sloan Kettering Cancer Center, New York, New York, October 30, 2015. Invited Speaker: Can we personalize early-stage kidney cancer care? Observations from active surveillance of SRM.


Research and Investigations

A Phase II study, randomized, controlled, efficacy assessor blinded, multi-center, international prospective study to assess the safety and effectiveness of Medi-Tate’s Temporary Implantable Nitinol device, (iTIND) in subjects with symptomatic Benign Prostatic Hyperplasia (BPH). Medi-Tate. Elterman DS. (2015).


**Honours and Awards**

**Finelli, Antonio**: Mark Daily Local Hero Award, Prostate Cancer Canada. 2015.

**Finelli, Antonio**: ICCO Arts, Science an Culture Award, Italian Chamber of Commerce of Ontario. This Arts, Science and Culture Award honours individuals who have made a significant contribution to the cultural and intellectual life of Canada through their ground breaking and innovative work in the field of Arts, Science and Culture. May 2016.

**Hamilton, Robert**: Teaching and Education Award, Notable Teacher, UHN Department of Surgery. September 2015.


**Division of Vascular Surgery**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tr>
<td>Dr. J.S Byrne</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. T.L. Forbes</td>
<td>Professor</td>
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<tr>
<td>Dr. K.W. Johnston</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. T.F. Lindsay</td>
<td>Professor</td>
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<tr>
<td>Dr. G. Oreopoulos</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. G. Roche-Nagle</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. B.B. Rubin</td>
<td>Professor</td>
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<tr>
<td>Dr. D.L. Wooster</td>
<td>Professor</td>
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**Publications**


Invited Visits


Forbes, Thomas Lawrence. Canadian Cardiovascular Congress, Toronto, Ontario, October 2015. Invited Speaker: 1) PAD and critical limb ischemia: How should these patients be identified and managed? 2) Totally endovascular arch repair. 3) Descending thoracic aortic aneurysms.

Forbes, Thomas Lawrence. VEITH Symposium, New York, New York, November 2015. Invited Lecturer: Is EVAR good treatment for young AAA patients: when is open repair the best option?

Forbes, Thomas Lawrence. Critical Issues America, Coral Gables, Florida, February 2016. Invited Lecturer: Should the indications for TAAA repair be revised?


Forbes, Thomas Lawrence. Pacific NorthWest Endovascular Conference, Seattle, Washington, May 2016. Invited Lecturer: Age and EVAR: Should we consider age a relevant factor when counseling young patients for an EVAR?

Forbes, Thomas Lawrence. Society for Vascular Surgery Vascular Annual Meeting (VAM), National Harbor, Maryland, June 2016. Invited Lecturer: Cost containment in the endovascular era: How can we be successful in controlling cost with so much new technology?

Forbes, Thomas Lawrence. Oregon Health Sciences University, Knight Cardiovascular Institute, Portland, Oregon, June 2016. Visiting Professor: Personalized Aortic Care in 2016 and the Future.

Lindsay, Thomas F. National Capital Vascular Symposium, Faculty of Medicine, University of Ottawa, Ottawa, Ontario, May 7, 2015. Presenter: Advances in Risk Factor Management.


Research and Investigations

An investigation into the use of novel anti-diabetic drugs for the treatment for abdominal aortic aneurysm. The Peter Munk Cardiac Center. Byrne JS, Lindsay T, Ouonmanian M, Hinke A, Robbins C, Husain M. ($37,000.00 CAD 2015 - ). Developing the Toronto Fontan Cannula as a bridge to transplant for failing Fontan circulation. Peter Munk Cardiac Centre. Honjo O, Doyle MG,
Weisel R, Roche L, Amon C, Forbes TL. ($60,000.00 CAD 2015 - 2016).

Determination of geometric factors that cause rotation of fenestrated aortic stent grafts during deployment. PSI Foundation. Forbes T, Amon C, Doyle M, Soulez G. ($159,000.00 CAD 2016 - 2018).

Spine Fest 2016
Women’s College Hospital
John L. Semple, Surgeon-in-Chief

DIVISION HEADS:
General Surgery: Tulin Cil
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. Jaskandip Chahal
Dr. Lucas Murugan
Dr. Tim Dwyer

DIVISION OF GENERAL SURGERY
Dr. Tulin Cil
Dr. Karen Devon

DIVISION OF UROLOGY
Dr. Ethan Grober

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. Our Surgical Programs are dynamic and innovative and our mandate is to be a leader in academic ambulatory surgery. These innovations include the expedited discharge in postoperative patients and remote monitoring of patients at home using smart phone technology. Women’s College Hospital continues to develop a fully academic affiliated site for inter-professional research and education in ambulatory surgery, focused on minimally invasive and specialized ambulatory procedures and innovative models of health systems solutions.

In September of 2015 we moved into Phase II which is the final stage and the completion of the new Women’s College Hospital. This new 400,000 square foot facility will have the capacity to accommodate 340,000 patients a year. It will also be the home to education, research, clinical centers and inter-professional teams of various sorts, all under one roof. The 7th and 8th floors of this new space has provided on site administrative office space and accommodate the core surgical activities and programs of the Department of Ambulatory Surgery.

Women’s College Hospital continues to develop as a hub of a citywide focus in Orthopedic Sports Medicine and building surgical strength in our core programs of Urology, Orthopedic Surgery, Plastic Surgery and General Surgery. Our goal is to become a leader in ambulatory surgery as we continue to work on our strengths: innovation and collaboration.

DEPARTMENT NEWS
Dr. Karen Devon and Dr. Jas Chahal both passed their three year Continuing Appointment Review with flying colours. Dr Tim Dwyer successfully defended his PhD at the Institute of Medical Science on December 11th 2015. His thesis is “Competency-based Medical Education: Assessing the in-training competence of orthopaedic residents” Supervisor, Dr. Brian Hodges.

TEACHING
The experience rated by undergraduate, residents, fellows and the Continuing Medical Education (CME) learners at Women’s College Hospital 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 continue to develop a new ambulatory general surgery rotation with the introduction of weekly guided reflective practice. Dr. Devon has led a same day discharge Thyroid Surgery program at Women’s College Hospital which had a very successful launch. The Division of Plastic Surgery continues to host fellows through the Allergan Breast Fellowship Program.

HONOURS AND AWARDS

Dr Ethan Grober:
Lois H Ross Resident Advocate Award, Nominee 2016
Feb Urology, Dept of Surgery, Faculty of Medicine, PARO. (Postgraduate MD) Resident Well-being & Advocacy.

Wightman-Berris Academy Post Graduate Teaching Award, 2015 Urology, Dept of Surgery, Faculty of Medicine, Wightman-Berris Academy. (Postgraduate MD) Wightman-Berris Academy Post Graduate Teaching Award.
Dr. Mitchell Brown:
Arnis Freiberg Faculty Teaching Excellence Award – Presented in recognition of outstanding contributions to plastic surgery resident education. 2016.


Dr Lavina Lickley:
Awarded Professor Emeritus, Depart of Surgery, University of Toronto

Dr John Semple:
Dr. John Semple was awarded the “Mentorship Award” by the Women’s College Hospital Research Institute. 2016.

University of Toronto - Gallie Day: Award in recognition of 10 years of service as the Chief of Surgery at Women’s College Hospital. 2016.


Dr Danny Whelan
2016 Jun – present Associate Professor, Orthopaedics, Surgery, University of Toronto, Toronto, Ontario, Canada


NEW PROGRAMS

With the capacity to expand our surgical programs with 10 state of the art operating rooms, Women’s College Hospital continues to grow though it’s various partnerships including collaboration with the Toronto Central LHIN around alleviating pressure points within the system. In addition, Post Construction Funding (PCOP) from the Province will help develop programs that started this year which include Otology, Hand Program and the Regional Orthopaedics Soft Tissue Trauma Initiative.

TRANSITIONS

Dr. John Semple completed 10 years as Chief of Surgery at Women’s College Hospital.

This past 10 years has been a period of transition, a period of building not just in bricks and mortar but building Departments with recruitment of the best young surgeons that could be hired. Today we have a brand new hospital with 11 core surgeons based at Women’s College Hospital. In total we have 64 surgeons credentialed from 10 partner hospitals that participate in ambulatory surgical programs at Women’s College Hospital. Dr David Urbach (from UHN) started, as the new incoming Surgeon in Chief on July 4th 2016.
Division of General Surgery

Dr. T. Cil  Assistant Professor (Division Head)
Dr. K.M. Devon  Assistant Professor
Dr. T.M. Ross  Associate Professor

Publications


Schwock J, Desai G, Devon KM, Dubé V.  Hobnail-Variant of Papillary Thyroid Carcinoma Diagnosed in Liquid-Based Cytology.  Diagn Cytopathol.  2015 Dec;43(12):990-2.


Invited Visits


Research and Investigations


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

Honours and Awards

Chahal, Jaskarndip: Division of Orthopaedics Faculty Research Award. November 2015.

Division of Plastic Surgery

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor (Division Head)

Publications


Invited Visits


Semple, John Laurie. World Congress, The Care Coordination and Technology Congress: Annual Leadership Summit on Hospital Readmissions, Atlanta, Georgia, January 28, 2016. Speaker: Leverage Mobile Technologies as a Tool in Reducing Readmissions.


Research and Investigation

Honours and Awards

Brown, Mitchell Howard: President’s Medal. Canadian Society of Plastic Surgeons. This award recognizes a CSPS member who has made an extraordinary contribution to the betterment of the specialty of Plastic Surgery. June 2016.


Semple, John Laurie: Mentor Award, Women’s College Hospital Research Institute. March 30, 2016.

Holiday Party
Division of Urology

Dr. E. Grober  Assistant Professor

Publications


Invited Visits

Grober, Ethan D. Rogers TV, Canada, 2015. Media Appearance: Testosterone Deficiency & Replacement.


Research and Investigations

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


**Sachewsky N, Azimi A, Morshead CM.** Pro-survival factors derived from the embryonic brain promote adult neural stem cell survival. Stem Cells and Development. 2015;23(20): 2469-2481.


Invited Visits

**Sun, Hong-Shuo.** Chinese Pharmacological Society (CNPHARS), China, Beijing, 4 Nov 2015. Distinguished Speaker: TRPM7 Channels as Therapeutic Targets for Neuroprotection.
Sun, Hong-Shuo. ZhongShan School of Medicine, Sun Yat-Sen University, China, Guangdong, Guangzhou, 6 Nov 2015. Invited Speaker: Role of KATP channels in Stroke.


Sun, Hong-Shuo. Hawaii Pacific University, Hawaii, United States, 5 Apr 2016. Invited Speaker: TRPM7 Channels as Drug Development Target for Neuroprotection.

Sun, Hong-Shuo. The Journal of Physiology, The Queen’s Medical Center & The University of Hawaii United States Hawaii, 8 Apr 2016. Distinguished Speaker: 1) Role of TRPM7 channels in Stroke and Hypoxic-Ischemic Brain Injury. 2) Advances & Breakthroughs in Calcium Signaling.

Research and Investigations

Discovery Grant. Natural Sciences and Engineering Research Council of Canada (NSERC). Sun HS. ($140,000 CAD 2016 Apr-2021 Apr).

Neuroprotective peptides for glaucoma. CIHR. Koeberle PD. ($150,000 2015-2016)


Promoting neurorepair via novel biphasic electrical stimulation therapy. CIHR. Morshead CM, Popovich M. ($100,000 2015-2016).

Synthius. GRAND NCE. Agur A. ($97,690 CAD 2015).


Honours and Awards

Ballyk, Barbara Ann (Dee): W.T. Aikins Award for Excellence in Course/Program Development and Coordination in Undergraduate Medical Education University of Toronto. 2015


JTR & Gordon Murray Lecturer

Spinal Cord Injury and Common Safety Methods Guidelines Meeting
Research in Education

Dr. R.R. Sonnadara  
Assistant Professor

Dr. N. Woods  
Assistant Professor

Publications


Acai A, McQueen SA, Fahim C, Wagner N, McKinnon V, Boston J, Sonnadara RR. It’s not the form; it’s the process: A phenomenological study on the use of creative professional development workshops to improve teamwork and communication skills. Medical Humanities. 2016 Jun.


Woods NN, Mylopoulos M. On clinical reasoning research and applications: redefining expertise. Medical Education. 2015 May;49(5):543.


Invited Visits


Research and Investigations


Creating a New Musical Composition that Incorporates the Active Acoustic System of the LIVELab and Real-time Physiological Responses at the McMaster Institute for Music and the Mind. Hamilton Philharmonic Orchestra and Arts Research Board. Sonnadara R. ($5,800.00 CAD 2016). Dedicated Programming Competition Round VII. MAX3D – Visualization of Reciprocal Space. SHARCNET Sonnadara R. ($20,000.00 CAD 2016).


SHARCNET Dedicated Programming Competition RoundVI. MAX3D – Visualization of Reciprocal Space. *SHARCNET, Sonnadara R.* ($30,000.00 CAD 2015).

Understanding music as a complex social activity. *SSHRC, Sonnadara R, Trainor L.* ($302,343.00 CAD 2016).


**Honours and Awards**

**Woods, Nicole N.** Research Mentor Award, University of Toronto Department of Family and Community Medicine. In recognition of excellence in research mentorship. 2016.

**Woods, Nicole N.** Mentor Award, Early Career Medical Educators. In recognition of efforts in guiding early career medical educators in their career development. 2016.
## Cross Appointments

<table>
<thead>
<tr>
<th>Dr. R. Abalian</th>
<th>Medicine</th>
<th>Dr. C. Lumsden</th>
<th>Medicine</th>
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<tbody>
<tr>
<td>Dr. A.J. Baker</td>
<td>Anaesthesia</td>
<td>Dr. A. Macdonald</td>
<td>Medicine</td>
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<tr>
<td>Dr. B. Bapat</td>
<td>Laboratory Medicine and Pathobiology</td>
<td>Dr. J. McGlade</td>
<td>Medical Biophysics</td>
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<tr>
<td>Dr. P. Birek</td>
<td>Dentistry</td>
<td>Dr. D.A.G. Mickle</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. A. Campbell</td>
<td>Medicine</td>
<td>Dr. M. Milner</td>
<td>Rehabilitation Sciences</td>
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<td>Dr. J. Carson</td>
<td>Family and Community Medicine</td>
<td>Dr. W. Montanera</td>
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<td>Dr. W.A. Cassar-Demajo</td>
<td>Anaesthesia</td>
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<td>Laboratory Medicine and Pathobiology</td>
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<tr>
<td>Dr. K. Czarnecka-Kujawa</td>
<td>Medicine</td>
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<td>Public Health Sciences</td>
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<td>Dr. A. Daar</td>
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<td>Dr. M. Ojha</td>
<td>Rehabilitation Sciences</td>
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<td>Dr. A. Damyanovich</td>
<td>Medical Imaging</td>
<td>Dr. K.P.H. Pritzker</td>
<td>Laboratory Medicine and Pathobiology</td>
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<td>Dr. A.D. DePetrillo</td>
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<td>Dr. M. Romach</td>
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<td>Dr. E. Diamanadis</td>
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<td>Dr. R. Eby</td>
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<td>Dr. A. Fox</td>
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<td>Dr. J. Freeman</td>
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<td>Medicine</td>
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<td>Dr. R. Gilbert</td>
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<td>Dr. D. Stewart</td>
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<td>Dr. M. Greenberg</td>
<td>Pediatrics</td>
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