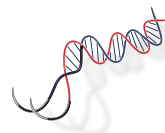




Surgery
UNIVERSITY OF TORONTO

ANNUAL REPORT 2017-2018

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Department of Surgery

Annual Report

JULY 1, 2017 – JUNE 30, 2018

R.S. McLaughlin Professor And Chair

Dr. J.T. Rutka

Associate Chair And Vice-Chairs

Dr. O. Rotstein	Associate Chair
Dr. N. Ahmed	Vice-Chair, Education
Dr. R.R. Richards	Vice-Chair, Clinical
Dr. M. Fehlings	Vice-Chair, Research
Dr. R. McLeod	Vice-Chair, Quality
Dr. S. Keshavjee	Vice-Chair, Surgical Innovation
Dr. A. Nathens	Chair, Departmental Appointments Committee

Surgeons In Chief

Dr. C. Calderone/Dr. J. Drake (Interim)	The Hospital for Sick Children/Robert B. Salter Chair in Surgical Research
Dr. C. Simone	Michael Garron Hospital
Dr. J.S. Wunder	Mount Sinai Hospital/Rubinoff-Gross Chair in Orthopaedics
Dr. L. Smith	North York General Hospital
Dr. C. Compeau	St. Joseph's Health Centre
Dr. O.D. Rotstein	St. Michael's Hospital
Dr. A. Nathens	Sunnybrook Health Sciences Centre
Dr. S. Keshavjee	University Health Network/James Wallace McCutcheon Chair in Surgery
Dr. D. Urbach	Women's College Hospital

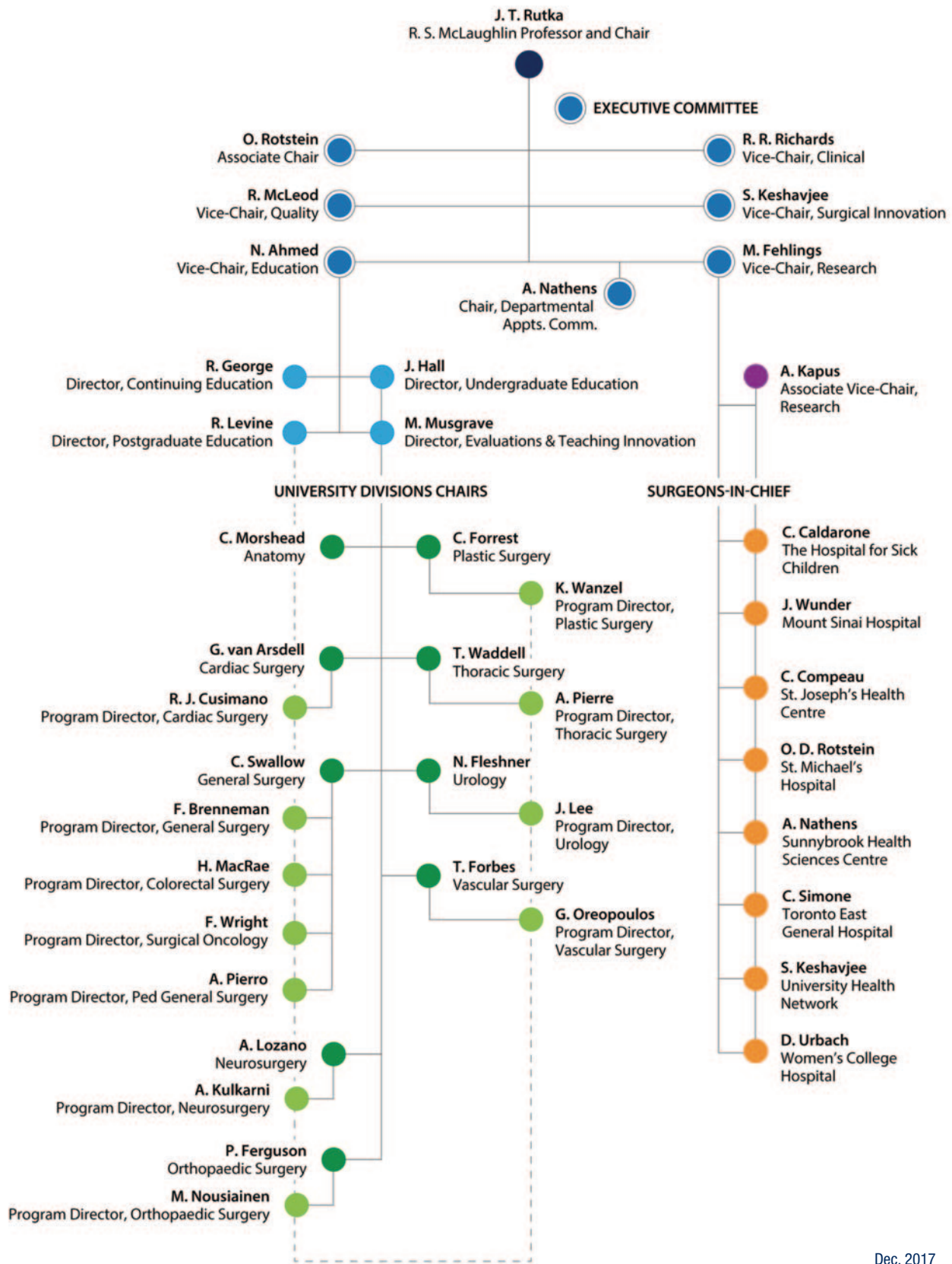
University Division Chairs

Dr. C. Morshead	Anatomy
Dr. T. Yau	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	F.G. Pearson/R.J. Ginsberg Chair in Thoracic Surgery
Dr. N. Fleshner	Martin Barkin Chair in Urological Research
Dr. T. Forbes	Vascular Surgery

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Department of Surgery Organizational Chart



Dec. 2017



Chair's Report

James T. Rutka, *RS McLaughlin Professor and Chair*

The Academic Year 2017-18 was marked by a number of major events in the Department of Surgery. A Translational Research Committee has been established with Dr. Mark Jeschke as Chair. An inaugural meeting was held March 26th with Dr. Randall Morris from Stanford University as the invited guest speaker. We are well underway with our new strategic plan - "Aspire, Advance, Achieve". We held the second annual Education Scholar's Day at the Peter Gilgan Research Centre for Research and Learning on February 16, 2018. The third Annual Global Surgery Symposium took place on February 23, 2018 with Dr. Brian Cameron from McMaster University, as the keynote speaker. Faculty Development Day 2017 took place in the Chestnut Centre's Grand Ballroom November 13. The 2nd Annual joint lecture of the Departments of Medicine and Surgery took place on Monday May 7th. Dr. David Rothenberger from the University of Minnesota spoke about physician burnout, resiliency, and well-being. The second annual Humanism in Surgery lectureship was held May 31, 2018 at Women's College Hospital with Dr. Carlos Pellegrini, University of Washington, as the invited guest speaker.

I am delighted to report that for the second consecutive year, all faculty going forward for promotion in the Department of Surgery were successful in the bids for higher ranks. Finally, we demonstrated record-breaking totals in our research enterprise and in our advancement funds for this past academic year.

As has been customary these past seven years, Mari and I held a welcome party for the PGY1 residents in all Divisions at our home on July 6, 2018.

Several faculty members were successful at their Continuing Appointment Reviews this past year. We welcomed many new faculty recruits including visiting, status only, adjunct and part time faculty in addition to our new full time faculty for whom mentors have been identified. Sadly, we lost some of our highly distinguished

faculty members including Dr. Martin Barkin (1936-2018), and John Emmett Hall (1926-2018).

Dr. Susan Mackinnon, Washington University School of Medicine, was the Gordon Murray Lecturer on Gallie Day held May 11, 2018 at MaRS. Jas Chahal was the winner of the B. Langer Surgeon-Scientist Award, Catherine O'Brien the George-Armstrong Peters Prize, Carol Swallow the Charles Tator Award, Marc Jeschke the Lister Prize, and Nancy Baxter the Bryce Taylor Mentorship Award.

Our faculty distinguished themselves once again with numerous appointments, honours and awards. Some of the more notable ones include Jeremy Hall appointed as Director Undergraduate Medical Education, Department of Surgery; Tirone David elected as an honorary member of the The Royal College of Surgeons of Edinburgh (RCSE); Karen Davis and Marc Jeschke elected into the Canadian Academy of Health Sciences; Karen Davis appointed as President-Elect of the Canadian Pain Society; Jameel Ali named an Honourary Member of the Trauma Association of Canada and received the Charles Burn Award for distinguished contributions to trauma care; Robin McLeod named President-Elect of the American Surgical Association; Ronald Zuker received the 2018 Dean's Alumni Lifetime Achievement Award (Global Impact); and James Drake was appointed as Surgeon-in-Chief at Sick Kids Hospital.

Finally, we had an incredible array of high impact publications in peer-reviewed journals such as *Cancer Cell*, *JAMA Surgery*, and *Nature*, and *NEJM* to name a few.

Many of our faculty were successful at receiving external peer reviewed research grants including several at the CIHR level. This year, some of those successful in receiving major research awards included Drs' Gregory Borschel, Karen Davis, Peter Dirks, Andrew Dueck, Stephen Fremes, Anna Gagliardi, Suneil Kalia, Mohit Kapoor, Paul Karanicolas, Ivan Radovanovic, Michael

Reedijk, James Rutka, Cari Whyne, Albert Yee, Kazuhiro Yasufuku, Shaf Keshavjee, Lesley Carr, Sender Herschorn, Jas Chahal, Darrell Ogilvie-Harris, Erin Kennedy, Alice Wei, Girish Kulkarni, Nathan Perlis, and Frances Wright.

I am delighted to serve as the RS McLaughlin Chair of this great and influential Department of Surgery. I look forward to seeing the myriad of accomplishments that will grace the volumes of our many future Annual Reports with you!

Respectfully submitted,



James T Rutka, OC, O Ont, MD, PhD, FRCSC, FRSC, FACS, FAANS
RS McLaughlin Chair,
Department of Surgery,
University of Toronto



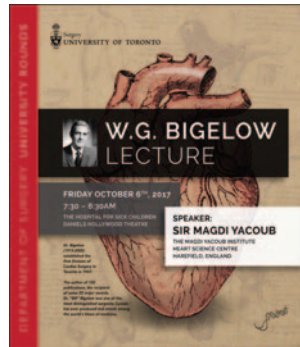
Breakfast with Chair December 2018



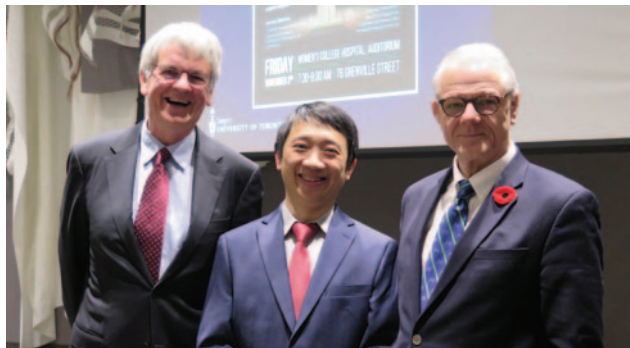
University Rounds



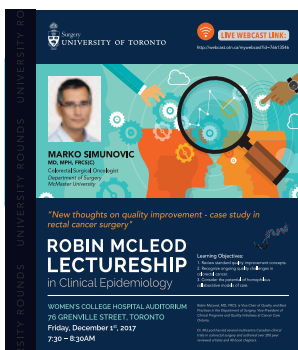
Annual Address – September 2017 - J. Rutka, O. Rotstein



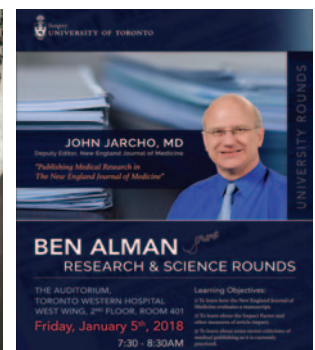
Bigelow Lecture – October 2017 - G. Van Arsdell, M. Yacoub, J. Rutka



George Armstrong-Peters and Lister Award Winner Presentations – November 2017 - G. Fernie, V. Yang, J. Rutka



Robin McLeod Lecture December 2017 - R. McLeod, M. Simunovic, N. Baxter



Ben Alman Research and Science Lecture - January 2018 - CANCELLED due to inclement weather.

University Rounds



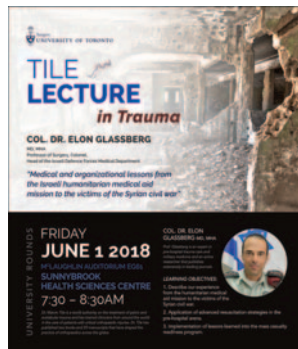
Kergin Lecture – February 2018 - C. Swallow, R. Reznick, J. Rutka



Harland Smith Lecture – March 2018 - J. Rutka, B. Starnes, T. Forbes



Palmer Lecture – April 2018 - Palmer Children, D. Olevnikov, A. Okrainec, Mrs. Palmer, L. Rotstein



Tile Lecture – June 2018 - A. Nathens, E. Glassberg, M. Tile.



Research Report

Michael Fehlings, *Vice-Chair Research*

2017-18 Research Report

The faculty and trainees in the Department of Surgery have had a remarkable year of academic research accomplishments. The following summarizes the major activities and accomplishments related to research in our department over the past year.

- Surgical residents enrolled in the **Surgeon Scientist Training Program** (SSTP) continues to rise as a measure of its success. Record high enrolment for July 2018 with 16 new and 38 continuing residents.

- Our surgeon and scientist research staff had an incredible research year. Whether they were Principle Investigators or co-investigator, our research team were successfully awarded over \$86 million in grants in the 2017-18 academic year.

- **Ben Alman Research Rounds** on January 5, 2018 – Dr. John A. Jarcho's lecture was cancelled due to inclement weather.

- **PGY 1 & PGY 2 Research Orientation – September 18, 2017:** Over 40 residents, SSTP residents, SSTP alumni and staff (Michael Fehlings, James Rutka, Christopher Ahuja, Joseph Catapano, Marcelo Cypel, Elisa Greco, Marc Jeschke, Andras Kapus, Adam Katchky, Karineh Kazazian, Avery Nathens, Carol Swallow, Victor Yang, Albert Yee, Keven Zuo) gave overviews of their personal experience as SSTP trainees or supervisors. The new residents welcomed the open discussion period and one-on-one face-to-face conversation.

- **SSTP Meet and Greet – October 2, 2017:** Dr. Michael Fehlings hosted a SSTP Meet and Greet evening. The majority of residents in the SSTP were in attendance. Drs. Nancy Baxter, Tom Forbes, Andras Kapus and James Rutka made the significant effort to join the SSTP residents. Their support and encouragement was very much appreciated by all residents. Val Cabral (Research Program Manager), Nancy Condo (Business Manager), and David Grieco (Senior Development

Officer, Advancement Office) were also in attendance. Last, but not least, Dr. Norman Rosenblum spoke to the resident about Clinician Investigator Program (CIP) and enlightened us all. Dr. Rosenblum started by saying that the CIP is an accredited postgraduate medical education program of the Royal College of Physicians and Surgeon. CIP was initiated as an educational tool for physicians towards their independent career as a clinical investigator combining medical practice and research. Residents who complete the CIP will have engaged in a curriculum that features the knowledge, skills, and attitudes fundamental to embarking on a career in health research. Dr. Fehlings emphasized that SSTP residents need to choose their supervisor (mentor) and project carefully. This is a 2 – 4-year commitment that may ultimately mold their career path. Each of the staff members talked about their personal journey from resident, to SSTP trainee, to surgical staff. Several surgical staff members who were in the SSTP changed their career objectives and guidelines while they were establishing themselves. They could start in a surgical division and have doors open to other areas of research and surgery that they feel more aligned to. They are given the opportunity to expand their goals and objectives.

- **Translational Research Retreat – March 28, 2018:** Dr. Marc Jeschke hosted the first Translational Research Retreat. Dr. Randall Morris was the visiting professor from California. Among other expertise, Dr. Morris was the first to publish on the prevention of acute Tx rejection by the novel dihydro-orotate dehydrogenase inhibitor, FK778, and defined its primary biochemical immunosuppressive mechanism of action. FK778 completed Ph 2 trials in renal transplantation. His involvement in the implementation of products or drugs was remarkable. Dr. Norman Rosenblum's synopsis on the EUREKA Program was quite effective. He is a founding member of the EUREKA Institute for Translational Medicine and served on the Board of Directors and the Faculty of the Certificate Course (2008-2017). The mission of the Eureka Institute is to develop a community of translational medicine

professionals equipped to inspire and catalyze the application of discoveries for the benefit of human health. Other amazing participants were Andrew Howard re International Translational Research, James Drake re building robots and tools, Shaf Keshavjee re ex-vivo lung perfusion experience, Victor Yang re intra-operative navigation technology advancement, Michael Laflamme re heart generation with pluripotent stem cells and Michael Fehlings re spinal cord injury and cervical myelopathy.

- **SSTP Grant Writing Workshop Update – April 10, 2018:** 54 SSTP residents will be in the SSTP as of July 2018. 36 Continuing – 16 New. Out of the 16 new SSTP residents, 9 were at the workshop. A total of 28 residents attended the workshop. Dr. Carol Swallow and two post-docs also attended the workshop. Daniel Harney, Grants & Awards Editor, Office of the Vice Dean, Research & Innovation, Faculty of Medicine, University of Toronto; Farah Thong, Research and Business Development Manager at the Faculty of Dentistry, University of Toronto as well as Ren-Ke Li, who is on the CIHR Fellowship Committee, were keynote speakers. Participants agreed that the speakers were excellent and unanimously confirmed that this kind of workshop should be done again. Suggestions included asking SSTP residents to complete a mock fellowship application to be reviewed at the workshop. Ren-Ke Li suggested that residents who are interested applying to SSTP should be encouraged to apply for external funding from grant agencies such as CIHR. A number of Faculty members in Surgery are in Fellowship Award Committees and they would happily provide advice and assistance for new SSTP residents to prepare award applications. This will help to bring more external funding. It was suggested that attendance in this workshop should be mandatory for SSTP residents.

- **2018 Gallie Day – May 11, 2018:** Theme was **"Innovation: Pushing The Boundaries of Surgical Care"**. This was the first Gordon Murray Lecture given by a female. The symposium, **"Innovation: Pushing The Boundaries of Surgical Care"**, was chaired by **Michael G. Fehlings**, and featured 4 outstanding speakers. **Karen Cross** commenced with her astounding talk on **"MIMOSA: A spectrum to impact the world"**. **Keith Jarvi** followed with his remarkable talk on **"Sperm Olympics: Nano-Fluidics to Choose the One in a Million"**. This was followed by **Mojgan Hodaie** with her incredible talk on **"Travelling through the white matter fibres of the brain - adventures in structural brain imaging"**. **Kazuhiro**

Yasufuku's talk on **"Innovations in Image Guided Thoracic Surgery"** was the perfect ending to a remarkable symposium. **Gordon Murray Lecturer** was **Susan E. Mackinnon** (Surgery Chief, Plastic & Reconstructive Surgery, Department of Surgery, Washington University School of Medicine, St. Louis, Missouri, USA). Her outstanding talk **"A celebration of academic surgery and the path to successful innovation"**, not only highlighted her amazing scientific journey, but gave us a glimpse into her path from graduate student to Chief and Professor. 72 E-poster presentations and ten oral presentations. Gallie Bateman Awards (for Surgeon Scientist Training Program residents) and McMurrich Awards (for trainees working with a member of faculty of surgery) were judged for both platform presentations and poster presentations. The quality of the research and presentations as a result of the research were exceptional. SSTP residents are awarded the Gallie Bateman prizes for best oral presentation and e-poster presentation. First prize oral presentation awardee was **Ashton A. Connor (SSTP)**, [Robert E. Denroche, Gun Ho Jang, Mathieu Lemire, Amy Zhang, Julie Wilson, Faiyaz Notta, Steven Gallinger (Supervisor)] for his remarkable talk on **"Comparison of primary and metastatic pancreatic cancer by integration of clinical, pathologic, genomic and transcriptomic features"**. Second prize was awarded to **Alaina Garbens (SSTP)**, [Bonnie Armstrong, Marisa Louridas, Fred Tam, Allan S. Detsky, Tom Schweizer, Simon Graham, Teodor Grantcharov (Supervisor)], for her very interesting talk on **"The association between fMRI brain activation and laparoscopic technical performance in medical students: A pilot study"**. Third prize was received by **Derrick Y. Tam (SSTP)** [Jiming Fang, Andrew Tran, Jack V. Tu, Dennis T. Ko, Saswata Deb (SSTP), Stephen E. Fremes (Supervisor)], for his fascinating talk on **"A clinical risk scoring tool to predict readmission after cardiac surgery: An Ontario administrative and clinical population database study"**. SSTP resident E-Poster awards: Joseph Catapano (SSTP) [Kira Antonyshyn, Jennifer J. Zhang, Gregory H. Borschel (Supervisor)], for his outstanding talk on **"Corneal neurotization prevents corneal ulceration and preserves vision in a rat model of neurotrophic keratopathy"**, shared 1st prize with **Keith Lawson (SSTP)** [Xiaoyu Zhang, Rummy Akthar, Qian Huang, Amy Tong, Xiaowel Wang, Kevin Brown, Michael Aregger, Alex Weiss, Antonio Finelli, Laurie Aille, Traver Hart, Jason Moffat (Supervisor)], for his exceptional talk on **"Genome-scale discovery of cancer immunotherapy fitness genes"**. 2nd prize was also tied by **Mitchell G. Goldenberg (SSTP)** [Hossein

Saadat, Jason Y. Lee, Antonio Finelli, Teodor P. Grantcharov (Supervisor), for his presentation on **“Incorporating measures of patient safety into skills assessments in robotic-assisted radical prostatectomy”** and **Christopher J.D. Wallis (SSTP)** [Bheeshma Ravi, Natalie Coburn, Robert K. Nam, Allan S. Detsky, Raj Satkunasivam], for his talk on **“A comparison of post-operative outcomes among patients treated by male and female surgeons: A population-based matched cohort study”**. 3rd prize was awarded to **Michael S. Taccone (SSTP)** [Thanh B. Nguyen, John Woulfe, Gerd Melkus, Ian Cameron, Ioana Moldovan, Nadav Berkovitz, Fahad Alkherayf], for his work on **“Bringing non-invasive IDH mutation detection to the clinic for glioma patients: Preliminary results”**. It is an accurate reflection on the great work our SSTP residents have done while in the Program, since a few of them will be going back to clinic in July 2018 and can boast that they were awarded the Gallie-Bateman Award in their final month before finishing. The McMurrich Awards are presented to research trainees who are not in the SSTP. The oral presentations were outstanding. The first place award was won by **Marcos T. Galasso** [Jordan Feld, Yui Watanabe, Mauricio Pipkin, Cara Summers, Aadil Ali, Robert Qaqish, Amajara Gazzalle, Layla Pires, Natalia Inada, Vanderlei Bagnato, Vera Cherepanov, Thomas Waddell, Mingyao Liu, Shaf Keshavjee, Brian Wilson, Atul Humar, Marcelo Cypel (Supervisor)] for his exceptional presentation on, **“Inactivating hepatitis C virus (HCV) from donor lungs using light therapies during ex-vivo lung perfusion (EVLVP)”**. Second prize was awarded to **Kasra Tajdaran** [Katelyn Chan, Molly S. Shoichet, Tessa Gordon, Gregory H. Borschel (Supervisor)], for his excellent talk on **“A novel local FK506 delivery system for improvement of axon regeneration after surgical peripheral nerve repair”**. Third prize went to **Abdikarim Abdullahi** (Marc G. Jeschke, Supervisor) for his stupendous talk on **“Browning of white adipose tissue is mediated by IL-6 during hypermetabolic states”**. McMurrich Awards were also bestowed on a group of individuals who presented remarkable E-posters. 1st prize went to **Hwan Hee Oh** [Saeid Amini-Nik, Marc G. Jeschke (Supervisor)] for his outstanding presentation on **“Enhanced decellularized extracellular matrix hydrogel for skin tissue engineering”**. 2nd prize was awarded to **Olga Brashavitskaya** [Karineh Kazazian, Qinghong Dan, Rick Bagshaw, James Dennis, Tony Pawson, Katalin Szaszi, Carol Swallow (supervisor)] for her presentation on **“PLK4 regulates cancer cell motility through RHOA GEF ARHGEF1”**. 3rd

prize went to **Zachary Fishman** [Joshua Pope, Jerry Liu, Oleh M. Antonyshyn, Jeff A. Fialkov, Cari M. Whyne (supervisor)] for his very interesting presentation on **“Validating 3D face morphing to provide missing geometry in facial reconstruction surgery”**. **Faculty research awards: Bernard Langer Surgeon Scientist Training Program Award** awarded to an outstanding graduate of the SSTP, who shows the greatest promise for a career in academic surgery went to **Jaskarndkp Chahal** (Orthopaedic Surgery, TWH-UHN and Women’s College Hospital). Jas received his MSC under the direction of Dr. Aileen Davis through IHPME. **George-Armstrong Peters Prize** was awarded to **Catherine O’Brien** (General Surgery, TGH-UHN); **Charles Tator Surgeon Scientist Mentoring Award** was presented to **Carol Swallow** (General Surgery, Mount Sinai Hospital). **Marc G. Jeschke** (Plastic & Reconstructive Surgery, Sunnybrook Health Sciences Centre) received the **Lister Prize**. **Bryce Taylor Mentoring Award**, established in 2017 to recognize those faculty members who emulate Dr. Taylor traits exhibited throughout his long and illustrious career at the University of Toronto, was awarded to Nancy Baxter (Head, General Surgery, St. Michael’s Hospital) for her tremendous mentorship throughout her illustrious career to date. The **Shafie Fazel Award** was presented to **Christopher Witiw** (PGY 6 Neurosurgery Resident). The **Zane Cohen Clinical Fellowship** was awarded to **Joao Paulo Cavalcante de Almeida** (Clinical Fellow, Neurosurgery). The **Tovee Postgraduate Prize is Mitchell Brown** (Surgeon Teacher, Plastic & Reconstructive Surgery, Women’s College Hospital), and **Fuad Moussa** (Surgeon Teacher, Cardiac Surgery, Sunnybrook Health Sciences Centre) received the **Tovee Undergraduate Prize**. The **Surgical Skills Centre DH Gales Outstanding Educator Award** was presented to **Abhaya Kulkarni** (Neurosurgery, Hospital for Sick Children). **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 the recipient was **Ryan Perlus** (PGY 4 Orthopaedics Resident). Thanks again this year to **Andrea McCart** for her dedication to assigning the judges to the posters. Thanks to **Kristen Davidge** and **Ian McGilvray** for expertly moderating the sessions, and **Sylvia Perry** for making sure the day’s and evening preparations were adhered to flawlessly. A very special thanks to **Val Cabral** for her incredible dedication and hard work in bringing together different facets of Gallie Day to perfection.

43rd GALLIE DAY

Gallie-Bateman and McMurrich Research Presentations



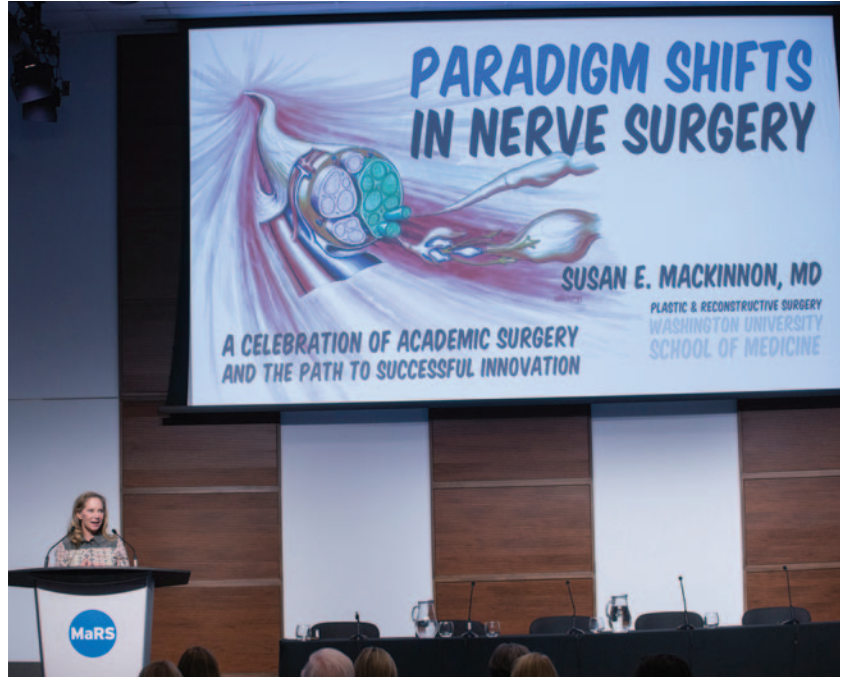
43rd GALLIE DAY

Gallie-Bateman and McMurrich Research Presentations



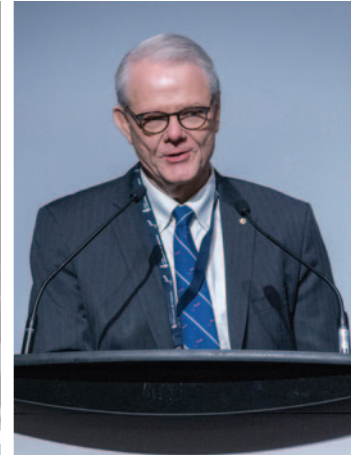
43rd GALLIE DAY

Gallie-Bateman and McMurrich Research Presentations



43rd GALLIE DAY

Gallie-Bateman and McMurrich Research Presentations



43rd GALLIE DAY

Gallie-Bateman and McMurrich Research Presentations



43rd GALLIE DAY

Reception, Dinner & Awards Ceremony



43rd GALLIE DAY

Reception, Dinner & Awards Ceremony



43rd GALLIE DAY

Reception, Dinner & Awards Ceremony



43rd GALLIE DAY

Poster Judging



43rd GALLIE DAY

Poster Judging



43rd GALLIE DAY

Poster Judging



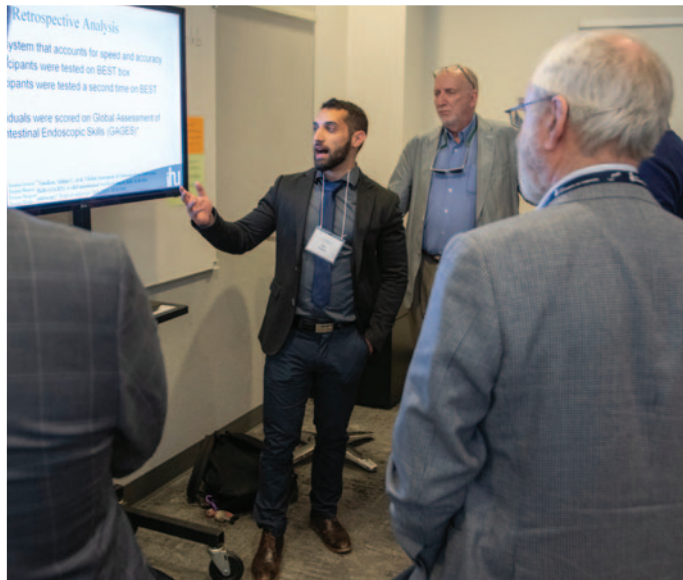
43rd GALLIE DAY

Poster Judging



43rd GALLIE DAY

Poster Judging





Postgraduate Education

Ron Levine, *Director*

The Department of Surgery at the Postgraduate level is the largest in Canada with 278 residents and 246 clinical fellows. There have been many accomplishments and successes in the 2017-2018 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 except for cardiac surgery were filled in the 1st reiteration. Most of these positions were filled with our top ranked applicants. Many of the surgical specialties also take IMG's (International Medical Graduates) and visa trainees from around the world.

The first two years of training in surgery is known as Surgical Foundations. Besides attending specialty-specific academic endeavors, the Surgical Foundations residents attend the Surgical Foundations lectures to prepare them for the Surgical Foundations Royal College Exam. Dr. Maurice Blitz coordinated the weekly lecture seminars and he also organized a practice exam for residents across Canada that took place in January 2018. Dr. Blitz left his position with us to move out of province in March 2018. He was replaced by Dr. Mark Wheatcroft in May 2018.

The surgical skills prep camp entered its fifth year during 2017-2018. 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.

There are a number of academic days to enhance the educational experience of the surgical resident. In July 2017, the Core Surgery residents attended "The Surgeon in Society". The topic this year was 'Medical Aid in Dying' led by Dr. Karen Devon. 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. Andrew Petrosoniak at St. Michael's Hospital.

As part of the Foundations of Surgery Lecture series, the residents were involved with a Quality Improvement Project coordinated by Najib Safieddine. Each group was assigned a staff leader and in May 2018 the work that was done by each group throughout the year was presented at an event at the Faculty Club.

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 6 modules is required for all residents finishing their PGY2 year.

The Fellowship Program in the Department of Surgery is extremely important. Not only do the fellows learn important skills that they take back to their countries of origin, they also bring their experiences from around the world to our residents and medical students. At the present time we have 246 fellows in the Department of Surgery. Dr. Najma Ahmed is the Vice Chair of Education and Director of Fellowships. She continues with our

effort to improve the social environment for our clinical fellows and their families. The Department hosted an annual BBQ in August 2017 specifically inviting spouses and children so that families could get to know each other.

It is an exciting time for the Department of Surgery as we roll out CBD (Competency by Design). Urology and Foundations of Surgery are in the first cohort of surgical specialties to start CBD in July 2018. We continued the process of planning EPA's (entrustable professional activities), milestones and their evaluations with the invaluable guidance of our amazing PostMD office. This will greatly change how we deliver surgical education in the years to come.

All of the surgical specialties will embrace CBD over the next 5 years. There will be considerably more evaluations which will improve performance and hopefully identify residents in difficulty at an earlier time. Foundations of Surgery piloted two EPAs in the academic year 2017-18 and had their first Competency Committee meeting in June 2018.





Undergraduate Education

Jeremy Hall, *Director*

In my first year as undergraduate surgical education director, we undertook the daunting task of creating our own multiple choice question exam bank, having used the National Board of Medical Examiner's shelf exam in years previous. Members of each subspecialty worked hard to provide a compendium of multiple choice questions using the University of Toronto blueprint. These were then assembled and coded within Examsoft and all signs point to a successful program.

We continue to fine tune the *prelude to surgery* week. Dr. Melinda Musgrave has assembled a team of surgeon teachers and surgical residents to facilitate interactive hands on and didactic sessions for the surgical clerks. This program is aimed at providing the students with the background technical and clinical experience necessary to actively participate during her surgical rotation. We are currently actively reviewing the program to provide the students with the most up-to-date opportunities. Given the complexity and diversity within the undergraduate surgical education program, we are delighted to introduce Dr. Eliza Greco, vascular surgery, as our associate director of undergraduate surgical education. Eliza has been instrumental in assisting with reconstruction of our exam bank, as well as facilitating the pharmacology immersion program for surgery.

We were sad to see Liz Doherty retire this past year from her position as program coordinator in surgical education for the UHN/Wightman-Berris Academy. She has been an invaluable resource to both students and preceptors for many years. We are excited to introduce Amicie Davies as our new program coordinator in surgical education for the UHN/Wightman-Berris Academy. Amicie will

undoubtedly continue to provide guidance to our students and future.

With the help and guidance of Dr. Najma Ahmed, vice chair of surgical education, we have set forth on increasing surgical exposure to the first and second year medical students through advanced opportunities in observerships. This, combined with increased communication with the undergraduate surgical interest groups, is aimed at increasing student awareness of surgical opportunities and careers.

Of special note, Jory Simpson has introduced a novel program in undergraduate surgical education. The Patient as a Teacher is a new and exciting program that integrates humanistic and patient-centered approaches into undergraduate surgical education. As the program name suggests: patients become the teachers. Past patients volunteer their time to share their experiences and insights with medical students. In turn, students learn about the surgical journey from the perspectives of the patient. The goal is to contribute to the learning and practice of compassionate and socially responsible care.

Patient-driven sessions are led by 2 or 3 cancer survivors who share their personal stories, experiences with the healthcare system, and perspectives on how their illness has impacted their lives. Students listen, engage in dialogue, and ask questions. This collaboration actively involves patients and survivors in the education process as partners in teaching, feedback, and evaluation. This is a first of the kind program within undergraduate surgical education.



International/Global Surgery

Andrew Howard, Director/Lee Errett, Professor/Avery Nathans

Bethune Round Table 2018: The Role of the Trainee

Over 150 surgeons and trainees from around the world met in Toronto at Women's College Hospital to discuss and deliberate on the role of the trainee in Global Surgery. Anna Dare, Josh Ng-Kamstra, and Maevé Trudeau provided excellent and energetic resident leadership in preparing all aspects of the conference including keynotes, abstracts, posters, and workshops.

The tremendous connectivity of today's surgical trainees and young surgeons around the globe is creating new models for partnerships both North-South and South-South. While the task of providing surgery for 5 billion currently excluded is daunting, the energy, imagination, and productivity of younger surgeons is bringing global surgery into a new era of accomplishment.

Thank you to all the residents, faculty, delegates and sponsors who made this day a success.

The 2019 Bethune Round Table will be in Edmonton, Alberta from June 7 through 9. The theme will be Ethics in Global Surgery. The 2020 Bethune Round Table will be in Winnipeg, and will focus on the surgical needs of indigenous populations in Canada and abroad.

Prakash Foundation Fellowships

In 2017 Grace Mukoni from Kenya undertook a fellowship in paediatric neurosurgery under the supervision of Jim Drake and his team at Sickkids. In 2018 Tewodros Zerfu from Ethiopia began a fellowship in paediatric orthopaedics under the supervision of Andrew Howard and the orthopaedic division at Sickkids.

In May of 2018, eight Prakash fellows, former and current, met in Toronto at the Bethune Round Table. All of these scholars who have completed their training in Toronto are now back in their home countries applying their skills, and teaching others.

Surgery in Africa

In 2017 we ran a ten module fully interactive online journal club for COSECSA trainees using a Moodle platform within the COSECSA website. Collaborators includes the Royal College of Surgeons of Ireland, and Dr. Brian Cameron from McMaster University. Among 59 participants who completed the modules we measured a substantial increase in knowledge of evidence based medicine concepts. Trainees were eager and intelligent participants in online discussion forums.

Global Health Education Initiative

A module on international surgery, anaesthesia, burden of injury and surgical workforce was taught by Andrew Howard, Greg Silverman, and Anna Dare.

Faculty Led Activities

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

Rajiv Singhal (urology, Michael Garron Hospital) has led several trips to Malawi establishing a program focusing on neglected issues in men's health, particularly urology. Through effective fundraising this is an ongoing program providing training in country, opportunities for residents from Canada, and a clinical partnership with the charity Dignitas International.

Andrew Howard (Orthopaedics, Sickkids) again served as overseas examiner for the College of Surgeons of East, Central and Southern Africa for the FCS ortho and MCS examinations in 2017. In addition, he made a trip to Ethiopia to work on teach a collaborative modular course on paediatric orthopaedics. For 2018, a specific paediatric orthopaedic specialty will be accredited and examined by the College of Surgeons of East, Central and Southern Africa.



Division of Anatomy

Cindi M. Morshead, *Chair, Anatomy*

The Division of Anatomy saw continued improvements and expansion in 2017-2018. The infrastructure updates to the student and faculty laboratories and facilities will afford new learning opportunities for the undergraduate, graduate and post-graduate students and researchers that undertake anatomical teaching and learning.

We have also started a long-term project to revitalize the JCB Grant's museum housed in the Division of Anatomy. The division has been, and is, the source of many of the world's leading anatomical reference works, including the "An Atlas of Anatomy" by Dr. John Charles Boileau Grant, first published in 1943. Now in its 12th edition, Grant's Atlas of Anatomy remains one of the most widely used anatomical atlases in the world. The anatomical dissections which form the core upon which the atlas is based, are housed in the JCB Grant Museum, making it a resource that is unique to the University of Toronto. The museum remains a learning space valued by students from a variety of programs including Medicine, Dentistry, Rehabilitation Sciences, Physical and Health Education and Kinesiology, Arts and Science and the School of Graduate Studies at the University of Toronto. Students from OCAD University, the Michener Institute, Faculty of Medicine Summer Student programs and Sheraton College Art Programs are also supported by the JCB museum.

We are thrilled that Dr. Danielle Bentley started in July 2017 as an Assistant Professor, Teaching Stream. In the past year Dr. Bentley has designed a new course for the Medical Radiation Science program and was awarded a LEAF funding (SEED grant) to assess the impact of structured/unstructured timing conditions on student anxiety and performance in the context of the anatomy laboratory "bell-ringer" exams. Her innovative teaching practices make her a perfect addition to the Division.

This year was the inaugural iteration of the second year of the Foundations Curriculum developed and delivered by Dr. Barbara Ballyk. Dr. Judi Laprade also undertook the design of a new Arts and Science course for advanced

anatomical study to be offered in January 2018. This is the second new course for undergraduate students that the Division has designed since 2016 to meet the needs of the bright, passionate and enthusiastic undergraduate students at the University of Toronto.

Our research endeavours continue to be recognized nationally and internationally. Dr. Hong Sun is the incoming president of the Toronto Chapter - Society for Chinese Bioscientist in America. Dr. Maryam Faiz was awarded the Women's Brain Health Initiative Award from the Heart and Stroke Foundation. Dr. Cindi Morshead's patent application "Selective, Directable Electrotaxis of precursor cells with Biphasic Electrical Stimulation" was granted in the US.

Dr.'s Maryam Faiz and Cindi Morshead (co-applicants) successfully acquired funding from the Heart and Stroke Foundation, the Ontario Institute of Regenerative Medicine and Medicine by Design (New Idea's Grant) to support their work in cellular reprogramming to treat stroke. Dr. Faiz's newly established research program has also been awarded the Connaught New Investigator's Award which will explore astrocyte development and heterogeneity. Dr. Morshead received funding from the Stem Cell Network, the Ontario Institute of Regenerative Medicine and the Ontario Brain Institute for her work investigating white matter injury repair using novel pharmacological tools.

We congratulate our graduate students who successfully defended their theses and wish them every success in their future endeavours: Ashkan Azimi (MSc), Ilan vonderwalde (MSc), Labeeba Nusrat (MSc), Wenjun Xu (PhD) (Morshead, supervisor), Ekaterina Turlova (PhD) (Sun, Supervisor), Liza Pain (PhD) and Shannon Roberts (PhD) (Agur, supervisor).



Division of Cardiac Surgery

Glen Van Arsdell, *Chair*

Events that took place during the year.

The Bigelow Lecture usually takes place in October and is organized by the Division of Cardiac Surgery. This lecture is dedicated to surgeons who have contributed to Cardiovascular Surgery field in a way that transcends cardiac surgery and provides new ways of looking at the care of our patients that is applicable to all aspects of health care. Indeed, the audience is the entire Department of Surgery. The lecturer of the year is responsible to provide insights into the relationship of the mind and the body in the practice of cardiac surgery. That being said, this year's Bigelow Lecture took place in the Hospital for Sick Children with having Dr. Sir Magdi Yacoub being the guest speaker, who is the Professor of Cardiothoracic Surgery at the National Heart and Lung Institute, Imperial College London, and the Founder and Director of Research at the Harefield Heart Science Centre (Magdi Yacoub Institute).

The Heart Centre at the Hospital for Sick Children plays

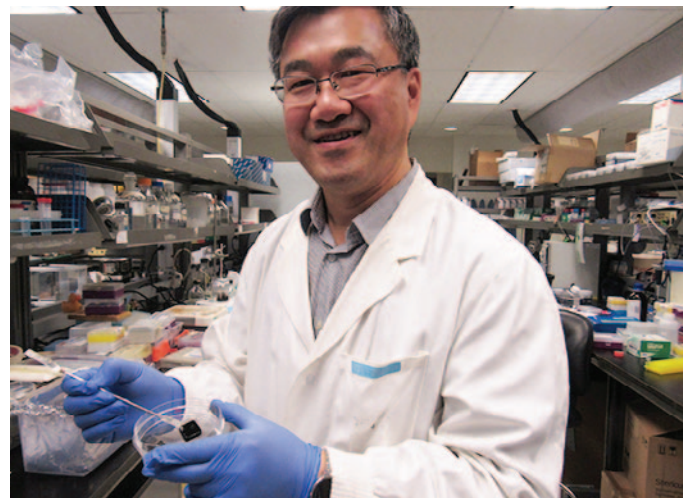
a central role for the Province in the care of the most complex congenital and acquired heart disease in infants, children and youth. It is among the top three heart centres in the world and contributes significantly to improving the outcomes of patients with heart disease. The Centre was formally established in 2007 and its goals are aligned with the Hospital's priorities. The Heart Centre retreat was held on December 1, 2017 at Peter Gilgan Centre for Research and Learning (PGCRL) Institute – The Hospital for Sick Children. An area of focus for 2017 and for the years to come is to ensure that SickKids is at the forefront of visionary, leading-edge paediatric research.

Departure

Dr. Chris Caldarone left The Hospital for Sick Children in January 2018.

Publications: 79

Grants: 8





Division of General Surgery

Carol Swallow, *Chair*

Education.

Faculty Recipients of Major Faculty of Medicine Teaching Awards

Shady Ashamalla,—Education Achievement Award: Ian Silver Innovation Award

Sandra deMontbrun,—Award for Excellence in Postgraduate Medical Education, Development / Innovation

Jory Simpson,—Education Achievement Award: Education Development Fund

Other Major Awards.

Nancy Baxter, University of Toronto Department of Surgery Bryce Taylor Faculty Mentorship Award

Ralph George, Marcus Burnstein Outstanding Presentation Award, University of Toronto Annual Update in General Surgery

Catherine O'Brien, University of Toronto Department of Surgery George-Armstrong Peters Prize

Ori Rotstein, Dedication of the American College of Surgeons 2016 Surgical Forum

Carol Swallow, University of Toronto Department of Surgery Charles Tator Surgical Scientist Mentorship Award

Frances Wright, James IV Travelling Fellowship

Markus Ziesmann, Trauma and Acute Care Fellowship Program – General Surgery Divisional Nominee, Zane Cohen Clinical Fellowship Achievement Award

Research and Innovation.

Resident Recipients of Department of Surgery Gallie Day Awards

Gallie Bateman 1st Prize, Oral Presentation: Ashton Connor, Sup: S. Gallinger

McMurrich 3rd Prize, Oral Presentation: Abdikarim Abdullahi, Sup: M. Jeschke

McMurrich 1st Prize, e-Poster Presentation: Hwan Hee Oh, Sup: M. Jeschke

McMurrich 2nd Prize, e-Poster Presentation: Olga Brashavitskaya, Sup: C. Swallow

Faculty Recipients of Major Division of General Surgery Teaching Awards 2017-18

Nancy Down, Robert Mustard Mentorship Award

Anand Govindarajan, Nicolas Colapinto Teaching Award

Faculty Development.

Major Faculty Appointments 2017-18

Ted Gerstle appointed as Chief of Pediatric Surgery, Memorial Sloan Kettering Cancer Center

New Faculty Members – Full Time

Anthony de Buck van Overstrataen, Mount Sinai Hospital – Clinical Mentor: Zane Cohen; Research Mentor: Erin Kennedy

Preeti Dhar, UHN-TGH – Clinical Mentors: Alice Wei and Jeff Singh, Critical Care; QI Mentor: Tim Jackson

David Gomez Jaramillo, St. Michael's Hospital – Clinical Mentor: Joao Rezende Neto; Research Mentor: Robert Fowler

Jesse Pasternak, UHN-TGH – Clinical Mentor: Lorne Rotstein; Research Mentor: David Urbach

New Faculty Members – Part Time

Kaes Al-Ali, Cobourg, Clinical Adjunct Lecturer

Vitaly Bard, Trillium–Mississauga, Clinical Adjunct Professor

Claude Burul, Shouldice Clinic, NYGH, Clinical Adjunct Assistant Professor

Mohammad Tabari, Scarborough General, Clinical Adjunct Professor

Melanie Tsang, St. Joseph’s, Clinical Part Time, Assistant Professor

Faculty Promotions

To Associate Professor: Greg Fairn, St. Michael’s Hospital; Shiva Jayaraman, St. Joseph’s Health Centre; Bernard Lawless, St. Michael’s Hospital

To Full Professor: Natalie Coburn, Sunnybrook Surgical Clinical Associates

Milan Ernjakovic, Debbie Li, Michael Garron; Eisar Al-Sukhni, Jossie Swett Cosentino, Mount Sinai;

Balisi Bakanisi, Andreas Tassis, St. Joseph’s; Vanessa Palter, St. Michael’s; Frances Fung, Sergio Muraca, Ashlie Nadler, Sunnybrook; Ahmad Elnahas, Amar Gupta, UHN

Successful Continuing Appointment Reviews

Junaid Bhatti, Sunnybrook; Agostino Pierro, Hospital for Sick Children; Adena Scheer, St. Michael’s Hospital

Departed Faculty

Barto Nascimento, Sunnybrook

Publications: 294

Grants: 55





Division of Neurosurgery

Andres Lozano, *Dan Family Chair*

Our Division had an outstanding year in 2017-18. Our 64 Faculty and residents performed over 6,300 cases and published 430 papers in top-tier journals including *NEJM* (2), *JAMA*, *Nature* (3), *Cell*, *Nature Genetics* (2), *Lancet Neurology* and *Lancet Psychiatry* (3). Our Faculty and residents had an exceptional year for grant capture and fellowship awards. They continue to receive prestigious awards and honors. Our position as a world-leading program has been enabled by the tremendous longstanding generosity and support of the Dan Family, to whom we remain highly grateful.

Recruitment. We welcomed **Nir Lipsman** and **Jefferson Wilson** to our Faculty at Sunnybrook Hospital and St. Michael's Hospital, respectively.

Promotions. **Sunit Das** (St. Michael's Hospital) was promoted to the rank of Associate Professor.

Research Grants. Our neurosurgeons and Division-affiliated neuroscientists were awarded over \$19M in grant funding from 18 newly awarded research grants. These included a remarkable 7 CIHR grants (**Karen Davis**, **Peter Dirks**, **James Drake**, **Suneil Kalia**, **Ivan Radovanovic**, **James Rutka** and **Michael Taylor**) and 2 NIH grants (**Abhaya Kulkarni**, **Taufik Valiante**).

Resident/Fellows Honours/Awards/Positions Held

- **Teresa Purzner** (PGY4; supervisor: Dr. Jae Cho, Stanford Univ.) won the 2017 Annual Award of the American Academy of Neurological Surgery.
- **Chris Ahuja** (PGY4; supervisor: Dr. Michael Fehlings) won the 2018 K.G. McKenzie Prize for Basic Research.
- **Anick Nater** (PGY4; supervisor: Dr. Michael Fehlings) won the 2018 AANS Brian D. Silber Award.
- **Farshad Nassiri** (PGY4; supervisor: Dr. Gelareh Zadeh) received a 5-year CIHR Fellowship Award.

- **Farshad Nassiri** received a 3-year Vanier Canada Graduate Scholarship.
- **Kyle Juraschka** (PGY4; supervisor: Dr. Michael Taylor) received a 3-year Vanier Canada Graduate Scholarship.
- **Christopher Pasarikovski** (PGY4; supervisor: Dr. Victor Yang) received a 3-year NSERC doctoral scholarship.
- **Jetan Badhiwala** (PGY4; supervisor: Dr. Michael Fehlings) received a 5-year CIHR Fellowship Award.
- **Francois Mathieu** (PGY3) received the Canada Cambridge Scholarship for research to be done at the University of Cambridge in 2018-19.

Faculty Honours/Awards/Positions Held

- **Peter Dirks** was elected to the Royal Society of Canada.
- **Michael Cusimano** was elected to the Canadian Academy of Health Sciences.
- **Gelareh Zadeh** was appointed as Program Medical Director for the Krembil Neuroscience Centre at Toronto Western Hospital.
- **James Drake** won the "Award for Life Time Outstanding Contribution to Research and Clinical Practice" from the International Federation of Neuroendoscopy.
- **James Rutka** received a Lifetime Achievement Award from the Isaac Foundation.
- **Gelareh Zadeh** was elected Vice President of the Society of Neuro-Oncology for 2017-2019.
- **Andres Lozano** received the 2017 Bachmann-Strauss Prize for Excellence in Dystonia Research.
- **Abhaya Kulkarni** received the 2018 Award for Excellence in Postgraduate Medical Education.
- **Karen Davis** was elected as President-Elect of the Canadian Pain Society.

- **Michael Dan** received an honorary Doctor of Laws, honoris causa, from the University of Toronto.

Visiting Professors

- **Dalton Dietrich**, University of Miami, 16th Annual Charles H. Tator-Barbara Turnbull Spinal Cord Injury Symposium, Nov 3, 2017.
- **David J. Fairholm**, University of British Columbia, 3rd Annual Labatt Visiting Professorship in International Neurosurgical Education, February 9, 2018.
- **Evandro De Oliveira**, Institute of Neurological Sciences, Sao Paolo, 56th Loughheed Course, Apr 23-27, 2018.
- **Jeffrey H. Wisoff**, New York University School of Medicine, 2018 E. Bruce Hendrick Visiting Professor of Paediatric Neurosurgery, May 25, 2018.
- **Jacques J. Morcos**, University of Miami, 4th Annual Alan and Susan Hudson Lecture, May 4, 2018.7
- **Sanford E. Emery**, West Virginia University, SpineFEST 2018, Jun 11, 2018.
- **Bernhard Meyer**, Technical University of Munich, 43rd William S. Keith Visiting Professor, Jun 15, 2018.

Division Firsts

- We recognized our Faculty with high teaching scores in 2016-17 (**Michael Fehlings, Todd Mainprize, Farhad Pirouzmand, Taufik Valiante, Victor Yang** and **Gelareh Zadeh**) at a celebratory dinner on Dec 12, 2017.

Leadership Changes/Progressions.

- **Julian Spears** accepted the role of Division Head of Neurosurgery at St. Michael's Hospital.

Royal College Fellowships. The following PGY6 residents successfully passed their FRCSC fellowship examinations: Shelly Wang and Christopher Witiw.

I would like us to thank each of our outstanding faculty, fellows and residents for their contributions to the success of our program. Our Division is driving academic productivity to new levels—and we reached a milestone this year by publishing an average of more than one peer-reviewed paper per day of the year. This establishes a new benchmark in our discipline. These accomplishments and our ongoing dedication to excelling in patient care and teaching are what makes our program. I am grateful to our entire Division family whose talents and enthusiasm are taking our program to new heights.

Publications: 256

Grants: 29





Division of Orthopaedic Surgery

Peter C. Ferguson, MD MSc FRCSC, *Albert and Temmy Latner Chair*

The Division of Orthopaedic Surgery had a very productive year with respect to growing our brand nationally and internationally. Our key initiatives included the inaugural Women in Orthopaedics Night, held in November 2017. This initiative has been designed to improve the exposure of our specialty to female medical students in an attempt to increase diversity in our Division. The event was organized by the female residents, fellows and faculty in our Division and was a resounding success. We will continue this event on an annual basis. Our biggest challenge continues to be supporting the Surgeon-Scientist Program. With the Orthopaedic Council, we have developed a stepwise strategy to continue to financially support this crucial aspect of our training program. Finally, our new website went live and has enabled us to promote our division to students, trainees and the public.

The Education group, led by Markku Nousiainen, continued work on improving our presence and profile in undergraduate education. We also took on the role as test program for “Entrada”, an electronic application that will be the new standard for smart-phone based resident assessment, which is a key component to the continuation of our highly successful and world-renowned Competency Based Curriculum.

The Research group, led by Albert Yee, continued initiatives to promote collaborative research across the city. Furthermore, we maintained a high level of support for our residents showing interest in Surgeon Scientist Program, our surgeon-scientists and early career investigators. The Orthopaedic Surgeon-Scientist Training Program Scholarship was continued to help support residents who are embarking on graduate training, to promote academic excellence. We have had several trainees successfully complete their MSc and PhD degrees over the past couple of years.

With respect to Faculty Development and Leadership, 100% compliance with the Departmental open search process for new faculty has been reached.

Furthermore, promotion of late career transition was undertaken and supported the appointment of new faculty in various sites across the city.

In the field of Integration, Advocacy and Outreach, we continued advocating for funding 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, were highlighted as priorities. Initiatives were undertaken to establish better and closer relations with our alumni, where, we hope, our new website will play a key role. Our University Wide Rounds for the academic year were given by Stephen Kates (Richmond, Virginia), Franklin Sim (Rochester, Minnesota), Rahul Vaidya (Detroit, Michigan), and Michael McKee (Phoenix, Arizona). Mark Glazebrook (Halifax, Nova Scotia) delivered the second annual Gordon Hunter Lecture. We had the seventh Stefansky lecture in communication for orthopaedists. This lecture was delivered by Dr. Douglas Smith (Professor Emeritus of Orthopaedic Surgery at the University of Washington in Seattle). He believes his role is to educate individuals about realistic expectations for surgical/non-surgical treatments and to perform excellent surgery. The title of his talk was: “Difficult Conversations: Thoughts on a Career of Discussing Amputation versus Limb Salvage”. At our annual research day held in November, Theodore Miclau provided an inspirational lecture on “Blood Supply and Fracture Repair: Bedside to Bench”. The Robin Sullivan Award for best resident research project went to Marissa Bonyun.

Our Graduation Day Visiting Professor was Ross Leighton (Halifax, Nova Scotia). He gave a fabulous and very informative and educating “Long Term Results of Pelvic Ring Fractures, Geriatric Acetabular Fractures” talk as his Salter lecture. The award for best academic resident, as voted by the faculty, went to Kim Tsoi, and the Borna Meisami award for most compassionate resident, as selected by the faculty, went to Marissa Bonyun. Lawson Awards went to: Justin Chang (PGY 4), Tan Chen (PGY

3), Matthew Florczynski and Aouod Agenor (PGY 2), and James Lee (PGY 1). The R.I. Harris award for best basic science research presentation at Graduation Day went to Kim Tsoi and the best clinical research paper was given by James Higgins. The winners of the debates were Norah Matthies and Justues Chang. The James Wright award for best pediatric paper was given to Jas Lochab. The James Waddell award for the best PGY 4 resident was awarded to Justin Chang. Hans Kreder received the Divisional Award for Best Teacher as selected by the residents.

We welcomed 2 new faculty members this academic year – Amir Khoshbin (St. Michael's) and Michael Zywiell (Toronto Western). We are looking forward to great contributions from them over the next several years. We had 2 faculty members who were promoted as of July 1, 2018. Diane Nam was promoted to the level of Associate Professor and Unni Narayanan 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.

As of January 1st Johnny Lau took over as our new Divisional Fellowship Director. He is an internationally renowned foot and ankle surgeon and is widely recognized for his excellence in resident and fellowship education. We are excited to work with Johnny and the fellowship committee to continue to promote our international reputation as leaders in fellowship training.

There were several awards bestowed upon our faculty members and residents. At Gallie Day, Jas Chahal was honoured with the Bernie Langer Surgeon-Scientist Award and Ryan Perlus received the DR Wilson award as the best resident teacher in the Department of Surgery. Jeremy Hall won the Bovill Award from the OTA the 3rd time in the past 5 years. Joel Finkelstein was appointed as the holder of Sunnybrook's Feldberg Chair in Spinal Research. Justin Chang was the recipient of the 2018 Postgraduate Medical Trainee Leadership Award. Kim Tsoi was the recipient of the 2017 CSCI/CIHR Resident Research Award and Joel Mokhtar received the Sopman Humanitarian Award from UHN.

At our 8th Annual Fellowship Day, the best fellow teacher within the division, selected by the residents, was David Wilson, and the best research presentations of the day were awarded to Shankar Thiagarajah, Mansur Halai and David Perrin. All of our trainees were successful on their recent FRCS(C) exams. Congratulations to Marissa Bonyun, Justues Chang, Catherine Conlin, James Higgins, Jas Lochab, Norah Matthies, Sam Park, Matthew Rubacha, Ujash Sheth, Jason Shrouder-Henry and Kim Tsoi. 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 Sarah Almubarak, Abdulrahman Al Rifai, Joseph Di Michele, Tyler Hauer, Paul Klas, Xin (Bill) Mei, Luke Reda, Maegan Shields, Jimmy Tat, Lawrence Wengle, Samuel Yoon. We all look forward to working with you over the next several years.

I'm sure there are myriad other awards and accolades that I could mention, these are but a few. I apologize if I've forgotten anything. Thanks to everyone for your tremendous support of our division and program over the past year. I'm incredibly excited about our collective future!





Division of Plastic & Reconstructive Surgery

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

The division continues to soar with 58 surgeons, 3 senior scientists, 28 residents and 19 fellows working at 12 units in 11 teaching hospitals in the greater Toronto area all under the University of Toronto academic mission. I am pleased to report on the Division's academic highlights over the past year and proudly reflect on the ever-growing number of Surgeon-Scientist trainees and their efforts achieved. Dr. Helene Retrouvey was successful in this year's competition in being awarded a Vanier Scholarship for her work "Understanding and Reducing Barriers to Breast Reconstruction in Ontario" under the supervision of Dr. Toni Zhong (UHN). This is valued at \$50,000 per year for up to three years during doctoral studies. She also received MOH-Clinician Investigator Program funding and a CIHR Frederick Banting and Charles Best Canada Graduate Scholarship. Helene is pursuing a Doctorate in Clinical Epidemiology and Health Care Research, Institute of Health Policy, Management and Evaluation, UofT under the supervision of Dr. Nancy Baxter and Dr. Toni Zhong. Her Thesis is entitled: "Understanding and Reducing Barriers to Breast Reconstruction in Ontario". Dr. Natalia Ziolkowski is completing her PhD thesis entitled "Examining the psychosocial impact of scars and field-testing a new patient-reported outcome instrument, the SCAR-Q, a seven centre international multicenter study" (under supervision of Dr. Joel Fish). Dr. Melissa Roy successfully defended her MSc thesis entitled, "Universal measures of support are needed: a cross-sectional study of health literacy in patients with Dupuytren's disease" under the supervision of Dr. Steve McCabe and Dr. David Urbach and has also received several awards which will be further detailed in this annual report. Dr. Tomas Saun is an MSc candidate at the Institute of Biomaterials & Biomedical Engineering, University of Toronto whose thesis is entitled "Improved video recording of open surgery with a body-mounted motorized gimbalstabilized camera system" (supervised by Dr. Teodor P. Grantcharov). Dr. Kevin Zuo, is an MSc candidate, Institute of Biomaterials and Biomedical Engineering, SSTP, Department of Surgery, UofT whose thesis is entitled "Translational strategies to enhance peripheral nerve regeneration". Dr.

Zuo has also received several scholarships, namely the James and Mari Rutka SSTP Scholarship at \$30,000/year, Ministry of Health Clinician Investigator Program Scholarship at \$69,000/year and the Sickkids Research Institute Restracom MD Scholarship and Fellowship at \$40,000/year. We are very proud of our SSTP trainees in securing this funding towards their research stream.

Recruitment & Appointments:

Dimitri Anastakis

Congratulations to **Dr. Dimitri Anastakis** who has been appointed as a Board Director, SIM-one, CNSH Board of Directors.

Wayne Carman

Dr. Wayne Carman was recruited as Lecturer in the Division of Plastic & Reconstructive Surgery, at The Scarborough and Rouge Hospital, Feb 1, 2018. Dr. Carman has been a respected member of the Plastic Surgery community in Toronto for over 30 years. He completed his Bachelors degree in Biological and Medical Science at Victoria College in the University of Toronto in 1972. He graduated from the University of Toronto Faculty of Medicine in 1975, and subsequently completed his residency training in Plastic and Reconstructive Surgery at the University of Toronto in 1982. During his residency, Dr. Carman undertook a year of basic research in the Institute of Medical Science and defended his Masters thesis in 1979. Following this, he spent time abroad under the auspices of the Irving Heward Cameron Travelling Fellowship. He studied in London, England, Copenhagen, Denmark and Gothenberg, Sweden before returning to Toronto and pursuing further fellowship positions at Sunnybrook Health Sciences Center and Scarborough General Hospital.

He has since been on Active Staff at Scarborough General Hospital (now Scarborough Rouge Health Network) where he continues to maintain a general plastic and reconstructive surgery practice.

Jeff Fialkov

Congratulations to **Dr. Jeff Fialkov** who has been appointed as Division Chief, Plastic & Reconstructive Surgery, Sunnybrook Health Sciences Centre effective November 1, 2017. Dr. Fialkov received his MD at the University of Toronto and enrolled in the SSTP completing his MSc working with John Phillips on bone healing. After graduating from the program and receiving his Royal College fellowship in 1998, he went on to do fellowships in craniofacial surgery and maxillofacial trauma at Sunnybrook, Monash University in Australia and in Michigan. He joined the Division at Sunnybrook in 1999 with a focus on craniofacial trauma and reconstruction and is now Associate Professor of Surgery at the University of Toronto and Associate Scientist at Sunnybrook Research Institute, where he focuses on the development of innovative approaches to stabilizing traumatic craniofacial injuries. Dr. Fialkov is a faculty member of AO North America and has received numerous awards for research and teaching. As a supervisor in the Clinical Adult Craniofacial Fellowship Program, he provides post-residency specialized training in adult craniofacial surgery to candidates from Canada, the United States, Europe and the Middle East.

Siba Haykal

It is a great pleasure to announce the appointment of **Dr. Siba Haykal** as Assistant Professor to the staff of the Division of Plastic and Reconstructive Surgery at the Toronto General Hospital, UHN. Dr. Haykal obtained her MD at the University of Ottawa and graduated as silver medalist and class valedictorian in 2007 before commencing her post-graduate training in Plastic and Reconstructive Surgery with us at the University of Toronto. As part of her residency, Siba graduated from the Surgeon-Scientist Training Program finishing her PhD in tissue engineering under the supervision of **Drs. Tom Waddell** (Thoracic Surgery) and **Stefan Hofer** at UHN. She went to complete a fellowship in reconstructive microsurgery at the prestigious Albany Medical Centre in New York before joining the staff there as Assistant Professor in the Division of Plastic and Reconstructive Surgery in July 2017. Siba's CV is replete with many accolades including a Vanier Scholarship, Young Alumni Award of Excellence from the University of Ottawa, HG Thomson Humanitarian award, Gallie-Bateman First Prize as well as CIHR funding. Siba's appointment began Jan 2018.

Steven McCabe

Congratulations to **Dr. Steve McCabe** who has been appointed to the Board of Directors of the International

Society of Vascularized Composite Allotransplantation at their 13th Congress meeting in Salzburg, Austria in October 2017.

Blake Murphy

I am thrilled to announce the appointment of **Dr. Blake Murphy** as Assistant Professor to the Division of Plastic and Reconstructive Surgery at St. Michael's Hospital as of June 2018. Blake is well known to our division having trained in Toronto. Following his graduation in 2015, Blake spent a year completing a fellowship with Dr. Tony Wolfe in Pediatric Craniomaxillofacial Surgery at the Nicklaus Children's Hospital in Miami followed by a breast fellowship with Stefan Hofer at UHN. Blake has been an associate staff at St. Michael's for the past year. He has joined as a Surgeon-Investigator and will be focusing on research into the application of augmented reality in surgery with Stefan Hofer. Blake graduated from the Medical School at the University of Ottawa in 2010 after he had completed a PhD in Medical Biophysics at the University of Western Ontario.

Bernd Neu

Dr. Bernd Neu was recruited as Lecturer in the Division of Plastic & Reconstructive Surgery, UofT as of July 1, 2017 and is located at North York General Hospital. Dr. Neu is a graduate of Dalhousie University medical school (1976) and the University of Toronto plastic surgery residency program (1982). He carried out two years of postgraduate fellowship training in head and neck reconstructive and aesthetic surgery at the Roswell Park Memorial Institute (Buffalo), abdominal and breast reconstructive and aesthetic surgery at the Mayo Clinic, and hand surgery at the UofT.

Dr. Neu is a founding member of the Ontario Society of Plastic Surgeons, and was its first term president (1996 - 1998). He is the first Canadian to become a member of the Rhinoplasty Society (2004). He has been on staff at North York General Hospital since 1983, and has been Head of the Division of Plastic Surgery since 2009.

Christine Novak

Congratulations to **Dr. Christine Novak** who has taken on the role of Research Associate with the Hospital for Sick Children, moving from the Toronto Western Hospital Hand Program. Christine is an Associate Professor with the Division of Plastic & Reconstructive Surgery, Department of Surgery, University of Toronto and a Research Associate at the Hospital for Sick Children. She has a Bachelor of Science (Honours Kinesiology) from the University of Waterloo. She has

Bachelor of Science in Physical Therapy and a Master of Science degree from the University of Toronto. In 2010, she completed her PhD at the Institute of Medical Science at the University of Toronto. The title of her dissertation was "Biomedical and Psychosocial Factors Associated with Pain and Disability after Peripheral Nerve Injury". Dr. Novak is a member of a number of professional organizations including the American Association for Hand Surgery, American Society for Surgery of the Hand, and American Society for Peripheral Nerve and Canadian Physiotherapy Association. She has served on the Board of Directors of the American Association for Hand Surgery and the American Society of Peripheral Nerve and the Executive Committee of the University of Toronto Centre for the Study of Pain. She is an Associate Editor for the Journal of Hand Surgery, HAND and Physiotherapy Canada and an invited reviewer for a number of high impact peer review journals.

Tim Sproule

Congratulations to Dr. Tim Sproule who was appointed as Chief of the Division of Plastic & Reconstructive Surgery for Scarborough Rouge Health Network. Dr. Sproule also was awarded the Sovereign's Medal for Volunteers from Office of Governor General of Canada in recognition for work in multiple developing countries over the last 30 years.

Tara-Lynn Teshima

Congratulations to **Dr. Tara-Lynn Teshima** who has been accepted into Harvard Medical School Surgical Leadership Program.

Herb von Schroeder

Congratulations to **Dr. Herb von-Schroeder** who has been appointed as Medical Consultant to the National Hockey League and National Hockey League Players' Association 2017-2018. Dr. von Schroeder (The Hand Unit, TWH) was also inducted as a Board Committee member of the AAHS this year and received the Earnard Meggitt Invitational Lecture, Cambridge Orthopaedic Club, UK 2018.

Kyle Wanzel

Congratulations to **Dr. Kyle Wanzel** who has taken over as Program Director as of July 1, 2017. In addition, he is Head of the Plastic Surgery Written Exam Committee – RCPSC

Promotions:

Mitch Brown

(Women's College Hospital) was promoted to **Full Professor**

David Fisher

(Hospital for Sick Children) was promoted to **Full Professor**

Faculty and Resident Grants/Awards/Honours

We are very fortunate and proud of the exceptional talents and accomplishments that have been achieved by our esteemed faculty as well as our residents in the last year. We have had a whopping **46** grants secured totaling **\$4,438,427.36** in 2017-2018.

Jamil Amad

Congratulations to **Dr. Jamil Ahmad** on receiving the Ronald M. Zuker Award 2017-2018. This award is designed to recognize any member of the division including faculty, fellow or resident who demonstrates the values of collaboration, surgical innovation, and a healthy disregard for the status quo in an effort to improve and push the envelope.

Paul Binhammer

Congratulations to **Dr. Paul Binhammer**: The Chair's Service Award was specially created to recognize those individuals who have provided unprecedented service to the division over a sustained period of time. Dr. Binhammer was recognized this year for his service as the Chief of the Division of Plastic and Reconstructive Surgery at Sunnybrook Health Science Centre for 16 years and has represented the division on the Residency Program Committee and residency selection process in addition to developing a world-class division.

Mitch Brown

Congratulations to **Dr. Mitch Brown** on receiving the **Tovee Award** for Excellence in Post-Graduate Education, Dept of Surgery, University of Toronto for 2017-2018. The Tovee Award is handed out yearly 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. Bruce Tovee during his outstanding career. This year, the Postgraduate Tovee Award recognized the efforts of Dr. Mitch Brown (Women's College Hospital) for his teaching skills and 10 years as Program Director for the division. This is great recognition for Mitch and the division has benefited hugely from his time and efforts to

make our residency program one of the best in the world.

Kristen Davidge

Dr. Kristen Davidge (The Hospital for Sick Children) was successful in obtaining a Thrasher Research Fund Early Career Award in the amount of \$26,152.36 USD for her project, "Chronic Pain in Children with Obstetrical Brachial Plexus Injury". This is an important area of research and Kristen has developed a robust multi-disciplinary infra-structure to study this at SickKids. Kristen also received the following recognitions: **3rd** Annual Division of Plastic and Reconstructive Surgery Early Career Award. Presented in recognition of Kristen's unique efforts and contributions in education within the Division of Plastic and Reconstructive Surgery, University of Toronto. (\$10,000 CAD); Peroperative Services Summer Research Student Award: Title "Sensory Outcomes Following Pediatric Nerve Injury, Student Shirley Deng (\$4,000); and Peroperative Services Summer Research Student Award, "Pain in Obstetrical Brachial Plexus Palsy". Student: Meredith Barr (\$4,000).

Marc Jeschke

Congratulations to **Dr. Marc Jeschke** (Sunnybrook Health Sciences Centre) on receiving the **Lister Prize** at this year's Gallie Day (May 2018) which is 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. Marc has an amazing track record of research productivity and runs a phenomenal lab and has over 300 peer-review publications. Fantastic work, Marc! In addition to this, Marc also received the following awards this year: Leo N. Steven Excellence Award in Leadership, Educating Beyond Sunnybrook Award, and a Presidential Citation from the Society of Critical Care Medicine for outstanding contributions to the Society of Critical Care Medicine. 2017-2018. Marc was also successful in the CIHR Spring competition for his project "Glucose control in burned patients: a multi-centre phase III prospective RCT".

Leila Kasrai

Congratulations to **Dr. Leila Kasrai** who received the Dept of Medical Education & Scholarship "Excellence in Clinical Teaching Award – Undergraduate Preceptor Category" for 2017-2018.

Joan Lipa

Congratulations to **Dr. Joan Lipa** on receiving the William K. Lindsay Faculty Research Mentor Award–

Presented in recognition of significant contributions to the nurturing of Plastic Surgery Residents' Research for 2017-2018.

Steve McCabe

Congratulations to **Dr. Steve McCabe** who was awarded the Division of Plastic and Reconstructive Surgery Chair's "Above and Beyond" award 2017-2018. In addition, Steve also received the Arnis Freiberg Faculty Teaching Excellence Award – Presented in recognition of outstanding contributions to plastic surgery resident education for 2017-2018.

Shahriar Shahrokhi

Congratulations to **Dr. Shahriar Shahrokhi** (Ross Tilley Burn Centre) on receiving the Dr. William Dixon Sunnybrook Surgical Teaching award. This award is given to the Sunnybrook surgeon who has made the biggest impact on the trainees in his or her department or division's development and evolution as surgeons (2017-2018).

Kyle Wanzel

Congratulations to **Dr. Kyle Wanzel** on receiving the Office of Integrated Medical Education Excellence in Community-Based Teaching Awards – Sustained Excellence in Community-Based Teaching 2018. Kyle also received the Division of Plastic Surgery Teaching Award (Department of Surgery, St. Joseph's Health Centre). Presented in recognition of outstanding contributions to plastic surgery resident education.

Karen Wong-Riff

Congratulations to **Dr. Karen Wong Riff** (The Hospital for Sick Children) who successfully defended her PhD thesis entitled "CLEFT-Q: Development of a patient-reported outcome measure to provide clinically meaningful outcomes in patients with cleft lip and/or palate". Defended February 15, 2018 and degree conferred May 24, 2018.

Toni Zhong

Congratulations to **Dr. Toni Zhong** (TGH-UHN) who was appointed as the Belinda Stronach Chair in Breast Cancer Reconstructive Surgery. Over the past several years, Toni has been passionate about developing a platform for comprehensive and multidisciplinary care for women with breast cancer and this endowed chair will assist in continuing to make it a reality.

Ron Zuker

Congratulations to Dr. Ronald M. Zuker (Class of '69) on receiving the **Dean's Lifetime Achievement**

Award for Global Impact. This was a huge big deal. Dr. Zuker (Class of '69) was presented with this award by Dean of Medicine Trevor Young. The Dean's Lifetime Achievement Award honors alumni who have demonstrated a lifetime of exceptional professionalism through leadership, research, teaching, clinical care, administration or public service. This is a remarkable achievement but well deserved for Ron who's work on free functioning muscle transfer for smile restoration and facial reanimation has influenced surgical care all around the world.

Other achievements include:

At Apsicon 2017, Ron had the distinction of giving the Sushruta Oration entitled "Expanding the horizons of reconstructive surgery" in addition to receiving an honorary membership in the Association of Plastic Surgeons of India. Apsicon is the annual meeting of the Association of Plastic Surgeons of India and was held in Kochi in early November.

News of the SSTP's

Congratulations to SSTP graduate **Dr. Joseph Catapano** who won the **Clifford C. Snyder award** (\$500) at this year's PSRC in Birmingham, Alabama for his paper "Corneal neurotization improves ocular surface health and prevents corneal scarring in a rat model of neurotrophic keratopathy" with co-authors Kira Antonyshyn, Tessa Gordon and Greg Borschel. The Snyder award is handed out to the best paper given by a resident at the annual meeting and the competition for this award is fierce.

Congratulations to this year's research award winner Dr. Joseph Catapano (**Best Basic Science Award:** Corneal neurotization prevents corneal ulceration and scarring in a rat model of neurotrophic keratopathy. Supervisor: Dr. Greg Borschel) - \$1000

Joseph successfully defended his PhD thesis entitled "Corneal reinnervation to treat neurotrophic keratopathy" and he has been remarkably successful during his tenure for the past 3 years at SickKids with supervisor Dr. Greg Borschel. His research has garnered multiple awards including **1st Prize Poster Presentation at the Gallie Day competition and the Education Foundation Award for Best Poster Presentation at the CSPS Mtg** (\$250). Joseph also received the **Surgical Alumni Fellowship in Surgical Science Award** (\$5,800).

Congratulations to **Dr. Dale Podolsky** who completed his 3-year PhD Thesis "Development and evaluation of a high fidelity cleft palate simulator for surgical training and

for development of a robotic approach to infant cleft palate surgery" with supervisors Drs. Jim Drake (Neurosurgery) and Chris Forrest. Dale's achievements over the past 3 years have included creating a medical start-up company, several patents and creating a new paradigm to surgical training.

Congratulations to **Dr. Melissa Roy** who has successfully defended her MSc thesis entitled "Universal Measures of Support Are Needed: A Cross-Sectional Study of Health Literacy in Patients with Dupuytren's Disease" with supervisor Dr. David R Urbach, committee members Dr. Steven J McCabe, Dr. Karen Okrainec, and collaborators Dr. Herb von Schroeder and Dr. Christine C Novak with Dr. Achilles Thoma (McMaster) as her external reviewer. Furthermore, she was a co-chair for the Institute of Health Policy, Management and Evaluation (IHPME) Annual Research Day and in addition won an award for the **best podium presentation in her category, the Maureen Dixon Memorial Award** (\$400) the **Mack Foundation Resident Bursary** (UHN), the **Mentor Medical System Canada Graduate Scholarship** for 2017-2018 (\$1883), the **Frederick Banting and Charles Best Canada Graduate Scholarship – 2017-2018** (\$17,500) the **Plastic Surgery Foundation Combined Pilot Research Grant** (\$10,000 US), the **Mentor Honour Roll, Longitudinal Academic Mentorship Program** for 2017-2018, the **Daniel C. Riordan Award, ASSH** (\$1200 US), the School of Graduate Studies Conference Grant (\$900) and the **John Edward DeToro Scholarship** for 2017-2018 (\$250). Melissa also serves as the Associate International Editor, Plastic Surgery Resident Magazine, IHPME Graduate Student Representative, CIP Committee Resident Representative and the IHPME Research Day Organization Committee Co-Chair.

Congratulations to SSTP trainee **Dr. Kevin Zuo** who did very well at the SickKids Perioperative Services Josie Walther Research competition receiving **first prize in the pre-clinical research category** for his presentation "Brief Electrical Stimulation Enhances Axon Regeneration through a Nerve Graft" done in the Borschel lab. In addition, Kevin received several scholarships, namely the **James and Mari Rutka SSTP Scholarship** at \$30,000/year, **Ministry of Health Clinician Investigator Program Scholarship** at \$69,000/year and the **Sickkids Research Institute Restracom MD Scholarship and Fellowship** at \$40,000/year. Kevin also received the **Barbara & Frank Milligran Graduate Fellowship Bursary** (\$5,460) as well as several resident grants. He served as the resident

representative, SSTP, Research Committee as well as a Teaching Assistant, Anatomy Cadaver Dissection Course for Medical Student from Aug-Sept 2017.

Congratulations to **Dr. Kalila Steen** and her co-authors Drs Victoria Hayward, Christine Novak, Dimitri Anastakis, and Steve McCabe! Kalila was the recipient of the **Best Resident Paper at the AAHS meeting** for her presentation "Long-term effects of radiation therapy for benign conditions of the hand".

Congratulations to **Dr. Natalia Ziolkowski** on receiving the **Best Clinical Paper Award** for "SCAR-Q: An Early Look at the Psychometric Performance Based on Data Collected in New Zealand" (Supervisor: Dr. Joel Fish). Natalia received the **Canadian Society of Plastic Surgeon's Clinical Outcomes Award** (\$10,000), **The Plastic Surgery Foundation Fellowship Grant** (\$50,000 US), **University of Toronto's Edward Christie Stevens Fellowship in Medicine/PhD** (\$5400), **CIP-MOH Salary Support** (\$67,000). Natalia is also the co-creator of the University of Toronto CME: Breast Reconstruction for the Primary Care Physician (with Dr. Ron Somogyi, Dr. Ginty and Dr. Brown) as well as the Sickkids Burn Picnic and Family Day Volunteer Coordinator for the past 3 years. Congratulations to SSTP trainee **Dr. H  l  ne Retrouvey** who received the Joseph M. West Family Memorial PGME award (\$7,000) for her work with supervisor Dr. Toni Zhong towards her thesis "Understanding and Reducing Barriers to Postmastectomy Breast Reconstruction in Ontario". H  l  ne received several awards and scholarships which include: **Mentor of the Year**, Longitudinal Academic Mentorship Program, UofT, **Mentor of the Group of the Year**, Longitudinal Academic Mentorship Program (for bonding as a group and going above and beyond), **Frederick Banting and Charles Best Canada Graduate Scholarships Doctoral Award**, CIHR (\$35,000), **Ministry of Health CIP funding** (\$69,032.97), **Vanier Canada Graduate Scholarship**, CIHR (\$50,000), **Practice-Based Research and Innovation Grant** (\$10,000), **Second Prize, Free Paper Session** ASSH, Singapore Society for Hand Surgery (\$200), **Office of Research Trainees Conference Travel Awards** UHN (\$500), Resident Research Grant, PSI Foundation (\$20,000), Vincent R. Hentz Scholarship, AFSH (\$1500 US), **Clinical Outcome Study Grant**, CSPA (\$10,000), **Best Scientific Paper**, GAM, CSPA, and **School of Graduate Studies Conference Grant**, UofT (\$950) to name a few!

Continuing Medical Education

1st Peripheral Nerve Interest Group

I am delighted to announce the UofT Division of Plastic and Reconstructive Surgery Peripheral Nerve Special Interest Group. This went from an idea to reality in a zero to 60 of less than 3 seconds and a special mini-symposium was piggy-backed on top of the Annual Hand and Upper Extremity Program. Congratulations to Chair Christine Novak for organizing this event which was held at the Peter Gilgan Research and Learning Centre, The Hospital for Sick Children on October 19th, 2017. The event included lectures on cold intolerance, nerve compression in kids, surgical wait times for nerve repair, facial reanimation, nerve transfers, corneal innervation and obstetrical brachial plexus palsy as well as featuring Dr. Isam Atroshi who was corralled into attending. Thanks to Dr. Atroshi for being so generous with his time during his visit to the 416 and also to UofT alumnus and Chair of the Division of Plastic Surgery at Western University, Dr. Doug Ross for his participation in advance of his First Canadian Peripheral Nerve Symposium which was held in London on November 17th, 2017.

6th Annual Breast Reconstruction Awareness Day (BRA Day)

The 6th Annual BRA Day was held on October 18, 2017, at the Glen Gould Studio on Front Street in Toronto. Breast cancer survivors, patients and medical experts gathered for this event to learn more about breast reconstructive surgery post-mastectomy. A group of five panelists, including Women's College Hospital's Dr. Mitchell Brown, founder of BRA Day, Dr. Joan Lipa (Sunnybrook), Dr. Ron Somogyi (North York General), Dr. Brett Beber (Women's College), Prof. Kyla Gutsche who spoke about Nipple Areola Tattoo along with a patient's story on delayed reconstruction. The event also included a "show-and-tell" lounge, where a group of courageous volunteers bared their chests to attendees in order to give them a firsthand perspective on what breast reconstruction looks and feels like. Education booths were set up in the following manner:

One-step direct to implant

Dr. Mary-Helen Mahoney (NYGH)
Resident: Joseph Catapano

Reconstruction using implants

Dr. Melinda Musgrave (St. Michael's)
Dr. John Semple (WCH)

Resident: Natalia Ziolkowski

Preventative (prophylactic) mastectomy

Dr. Mitchell Brown (WCH)

Fellow: Eduardo Gus

Post Surgery Recovery and Physiotherapy

Lindsay Davey (Registered Physiotherapist, Acupuncture & Manual Lymphatic Drainage Specialist)

Katie Hauck (Registered Physiotherapist, Acupuncture & Pelvic Health Specialist)

Reconstruction using your own tissue

Dr. Stefan Hofer (UHN)

Fellow: Amanda Murphy

Delayed reconstruction and radiation

Dr. Anne O'Neill (UHN)

Resident Helene Retrouvey

Reconstruction options after lumpectomy

Dr. Ron Somogyi (NYGH)

Resident: Maryam Al Zamani

Nipple areola reconstruction and tattooing

Dr. Brett Beber (WCH)

Prof. Kyla Gutsche (Medical Illustrator & Tattoo Specialist)

Resident: Melissa Roy

Hereditary Breast and Ovarian Cancer/BRCA

Aletta Poll (Genetic Counsellor, WCH)

BRA Day, which is partnered with Willow Breast Cancer Support Canada, is internationally recognized in almost 30 countries and is open to the public each year.

3rd Medical Student Career Night

The **3rd Medical Student Career Night** was held on November 20, 2017 with an attendance of over 100 medical students at the Peter Gilgan Centre for Research and Learning designed to showcase the breadth and depth of Plastic and Reconstructive Surgery. For the third year in a row, our division hosted a Career Night to showcase to the medical students, exactly what we do as Plastic and Reconstructive Surgeons. So on November 20th, we had over 100 students from across the province attend and participate followed by beer, pizza and a chance to mingle with members of the division. The idea behind this came from a paper that Ryan Austin and Kyle Wanzel published in 2015 that demonstrated 85% of medical students have had no/zero/nada exposure to Plastic Surgery during

undergraduate medical training. No wonder that most docs don't know what we do! Austin RE, Wanzel KR. *Plast Surg (Oakv)*. 2015 Spring;23(1):43-7.) The evening has a two-fold purpose: to help educate the new generation what we do and to also attract the best and the brightest to our specialty. The Breakout Room sessions were very enlightening listening to the scope and breadth of what we do. I would like to personally thank the following division members for being so generous with their time: Howard Clarke, Steve McCabe, Melinda Musgrave, Alan Rogers, Emily Ho, Ron Somogyi, Mitch Brown, Karen Cross, John Semple, Monica Yu, Joseph Catapano, Dale Podolsky, Rayisa Hontscharuk, Hélène Retrouvey, Whitney Quong, Katie Armstrong, Andre-Anne Roy, Blake Murphy, Mélissa Roy, Natalia Ziolkowski Kevin Zuo and Thomas Saun.

The **18th Annual Toronto Breast Symposium** was held on April 12, 2018 at the King Edward Hotel. Congratulations to Chair **Dr. Mitch Brown** and co-chairs **Drs. Brett Beber** and **Kyle Wanzel** for a world-class event that boasted a stellar guest and local faculty. Toronto Breast Surgery is a great brand and it is a pleasure to showcase the talents of the faculty here.

Faculty

Dr. Peter Bray*
Plastic Surgeon
Toronto, ON

Dr. Melinda Musgrave*
Plastic Surgeon
Toronto, ON

Dr. Wayne Garman*
Plastic Surgeon
Toronto, ON

Dr. Anne O'Neill*
Plastic Surgeon
Toronto, ON

Dr. Peter Lennox
Plastic Surgeon
University of British Columbia
Vancouver, BC

Dr. John Semple*
Plastic Surgeon
Toronto, ON

Dr. Ronald Levine*
Plastic Surgeon
Toronto, ON

Dr. Laura Snell*
Plastic Surgeon
Toronto, ON

Dr. Mary Helen Mahoney
Plastic Surgeon
Toronto, ON

Dr. Toni Zhong*
Plastic Surgeon
Toronto, ON

Guest Faculty

Peter Lennox, MD FRCS
Clinical Professor
Head, Division of Plastic Surgery, UBC
Active Staff, Vancouver General Hospital

Tracy M. Pfeifer, MD, MS
Private Practice, New York City
New York, USA

C. Andrew Salzberg, MD
Professor and Chief Division of Plastic Surgery
Icahn School of Medicine
Mount Sinai Medical System
New York, NY

Graeme Southwick, OAM MB BS FRACS FACS
Chairman
Melbourne Institute of Plastic Surgery
Malvern, Victoria
Adjunct Senior Lecturer
Department Anatomy & Cell Biology
& Hudson Institute of Medical Research
Monash University
Clayton, Victoria
Australia

The 48th Annual Aesthetic Plastic Surgery Symposium was held on April 13-14, 2018.

After 21 years, Dr. Peters passed the baton to Drs. Frank Lista and Tom Bell who continue to be conference co-chairs. Dr. Jamil Ahmad joined as Program Director several years ago and this year, acquisition of talent to the organizing committee continues with the appointment of UofT alumnus Dr. Ryan Austin. Over the years, this intimate and accessible meeting has drawn the best of the best in aesthetic surgery from across the globe. This year's guest faculty did not disappoint with contributions from facial aesthetic surgical guru Tim Marten (San Francisco), body contouring specialist Alfredo Hoyos (Columbia), Google-glass guru Lorne Rosenfield from Burlingame, California and masterclass surgeon Graeme Southwick (Melbourne, Australia).

UoT GTA Lecturership Series

The GTA lecture series continues with high quality visitors and lectures provided to bring the community and academic surgeons together over some food and wine and a common interest in learning from some of the best out there. 2018 has been a great year to date and many thanks to Dr. Jamil Ahmad for organizing these events with Kathy Pavlovic. Professor's Rounds tend to be more academically focussed and I think the transition from local faculty to international is a positive one.

The first visiting speaker for the 2017-2018 academic

year was held on November 9, 2017 with **Dr. Moustafa Hamdi**, Professor and Chairman, Department of Plastic Surgery, Brussels University Hospital from Belgium who did double duty during a recent trip to the 416. Moustafa is an internationally recognized expert on breast reconstruction and microsurgery and was most generous with his time during his visit November 9th and 10th, 2017. He gave a terrific GTA lecture entitled "Navigation within Breast Surgery Using Wuringer's Septum" and started the lecture with a shout-out to Canada for being such great global citizens in accepting Syrian refugees (Moustafa's home country). Very classy! It was great to see a full room at the University Club. This was followed by a superb Professor's Round's talk "Oncoplastic Surgery and Partial Breast Reconstruction" the following morning.

The second dinner was held on March 8, 2018 with visiting speaker **Dr. Peter Rubin**. J. Peter Rubin, MD, is Chair of the Department of Plastic Surgery and the UPMC Endowed Professor of Plastic Surgery, as well as a Professor of Bioengineering. He earned his undergraduate degree in biology from Grinnell College and his M.D. degree from Tufts University School of Medicine. After graduating from general surgery residency at Boston University/Boston City Hospital, he completed a 3 year residency in plastic surgery at Harvard Medical School. He has been a faculty member at the University of Pittsburgh since 2002. We have been trying to get Peter Rubin to Toronto for some time now and it was a delight to have him do double duty at the GTA lecture series and Professor's Rounds in early March. Peter gave two terrific talks: "Arm, Breast, and upper trunk contouring in the massive weight loss patient" and "The science of adipose stem cells and fat grafting".

Graeme Southwick OAM MB BS FRACS FACS, Melbourne, Australia

The third talk for the academic year was held on April 11, 2018. It was a pleasure to have **Mr. Graeme Southwick** visit Toronto in April. He was quite busy as a guest lecturer for both the Aesthetic and Breast Symposia. And if that wasn't enough to keep him busy, we got him to do a GTA lecture "Plastic Surgery Challenges: The Dark and the Light". Mr. Graeme Southwick graduated in medicine with honors from Monash University in 1970. After completing surgical training, Mr. Southwick was made Fellow of the Royal Australasian College of Surgeons (FRACS) in ENT Surgery as well as in Plastic and Reconstructive Surgery.

Graeme studied in London and the United States for two

years and was made a Fellow of the American College of Surgeons. On return to Australia in 1979 he was appointed consultant plastic surgeon at the Peter MacCallum Cancer Institute and the Alfred Hospital. Since 1979, Graeme has been honorary adjunct lecturer in the Department of Anatomy and Cell Biology at Monash University and also since 2010 at the Monash Institute of Medical Research. He has been in private practice as a plastic surgeon since 1979, and is currently director and chairman of the Melbourne Institute of Plastic Surgery. He has published and lectured widely in Australia and overseas on many aspects of plastic and reconstructive Surgery, especially in microsurgery, endoscopic surgery for brow rejuvenation, facelift and breast surgery.

Drs. Mitch Brown, Graeme Southwick, Brett Beber, and Jamil Ahmad

**Oren M. Tepper, MD, Montefiore Medical Centre
Albert Einstein College of Medicine
The Bronx, New York City**

The fourth talk for the academic year was held on April 19, 2018 and was given by **Dr. Oren Tepper** who is the Director of Craniofacial Surgery and Director of Aesthetic Surgery at Montefiore Health System as part of the Albert Einstein School of Medicine and Assistant Professor in the Division of Plastic Surgery where he has been since 2011. Oren has an interest in the latest technological applications of 3D printing and application of stem cell technologies. He has over 50 peer reviewed articles on a range of topics including aesthetic surgery of the face (boomerang lift), medical tourism, VR using a holo-lens, angiogenesis and breast surgery. Dr. Tepper recently received international recognition for his role in the successful separation of conjoined twins Jadon and Anais McDonald. The historic event was reported as a CNN exclusive as well as a documentary “Special Report: Separated: Saving the Twins”.

We were treated to a double bill of remarkable talks by rising star Oren Tepper in April who highlighted the applications of 3D printing, 3D photography, and virtual reality in aesthetic and craniofacial surgery in a spectacular fashion. At the GTA lecture series Oren talked on “Maximizing the Impact of 3D Imaging Technology in your Practice Well Beyond the Consultation: Setting a New Standard of Care in Aesthetic Surgery through Surgical Planning, Precision, and Post-operative analysis” on Thursday April 19th, 2018 and followed up with

Professor’s Rounds “The Successful Separation of Conjoined Craniopagus Twins: The Role of 3D Printing & Computer Simulation in this Case and Beyond”. These are such rare and unusual cases and the pressure for success is high.. It is an impressive trajectory to see how the scope of 3D imaging technology has developed and where its spin-offs will take us.

The fifth and final talk of the academic year was held on May 24, 2018 and was given by **Hugh Wilson** (Coach the Voice). Many thanks to Dr. Karen Cross who coordinated a really unique and fascinating GTA Lecture on May 24th Hugh has an interesting background in the entertainment industry for over 35 years and has worked with everyone from Sir Paul McCartney to the Rolling Stones in various capacities. The focus of the evening was communication and how to improve one’s public speaking skills through reading the audience and understanding the basic technique of KUBA (Knowledge, Understanding, Believe, and Act) and eliminating the “ummm” and “ahhh” game. The evening was a remarkable and engaging event to enhance skills in an area most of us pay no attention to. It was pretty eye-opening!

Dr. Hugh Mclean runs the McLean Clinic and likely has the largest experience in female to male top surgery in the country. Hugh graduated from the Faculty of Medicine, University of Toronto and completed specialized training in plastic surgery in Toronto and cosmetic surgery in Miami. He has been on staff at the Trillium Health Centre since 1980 and is former Chief of Plastic Surgery at the Mississauga Hospital. He opened his private clinic in 1988. Hugh shared his experience at the Professor’s Rounds on May 25th. Thanks, Hugh, for the very generous donation of time and for sharing your remarkable expertise!

Dr. Kyle Wanzel, Program Director, gave a great exposé and primer on the impending arrival of Competency by Design on June 8th.

2018 Hoyle Campbell Visiting Professor

On February 2nd, 2018, this year we celebrated all that is good in the division with our 34th Annual Resident Research Day and had the remarkable honour of hosting **Dr. Andrea Pusic**, as our Hoyle Campbell Visiting Professor.

As a Canadian, Dr. Pusic is no stranger to the Toronto division as she has worked with several of our faculty members and has been an invited speaker at our

Professor's Rounds. Andrea has since transitioned from her position at Memorial Sloan-Kettering Cancer Center in New York to the role of Chief of Plastic Surgery at the Brigham and Women's Hospital, Harvard University in Boston and we were very grateful that she was so generous with her time and expertise.

The Hoyle Campbell Lecture was entitled "Patient-reported outcomes in Plastic Surgery: Guiding clinical care and assessment of quality, value and comparative effectiveness." This is a great story and a remarkable example of a quantum shift in our specialty. Andrea has inspired a generation in her PRO work and set the bar at an exemplary level. All that and such a great role model, too!

16th Annual Ralph T. Manktelow Lectureship

The 16th Annual Ralph T. Manktelow Lectureship in Hand Surgery was held at the Toronto Western Hospital on Friday October 20th, 2017 and this year's invited guest lecturer was **Dr. Isam Atroshi, MD**, Adjunct professor at Department of Orthopaedics (Lund University, Sweden) who spoke on "Carpal Tunnel Syndrome: What We Know & Don't Know". Dr. Atroshi has led several randomized controlled trials, large scale epidemiological studies, cohort studies, and studies on outcomes research methodology. He is a supervisor for several PhD students. His current research areas include carpal tunnel syndrome, upper-extremity patient-reported outcomes measures, distal radius fractures, thumb trapeziometacarpal arthritis and Dupuytren's contracture. He is a member of the Cochrane Musculoskeletal Group Advisory Board and of several hand surgery and orthopedic societies and has published more than 75 peer-reviewed articles related to hand surgery and orthopedics, including publications in the major general medical journals.

2nd Annual Resident Retreat 2018

On June 4th, our resident crew took to the water and paddled their way to the Toronto Island where they held their now traditional annual retreat. This year's event was organized by **Helene Retrouvey, Natalia Ziolkowski, Monica Yu, Jessica Shih, and Joseph Catapano**, and was designed to cover a range of discussion topics that included transitioning into and out of residency, being a parent and a resident, mentoring as well as practical issues of resident fellow interactions, enhancement of educational opportunities in clinic, resident distribution and the like. Once all the problems of the world were solved, the day was spent with a scavenger hunt and some food. It is an important and unique chance to bond and get to know each other.

Graduation Gala Event 2018

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 28th, 2018, the Division hosted the gala at One King West Hotel and invited back all of its alumni, with special recognition given to those alumni who graduated in 2018, 2008, 1998 and 1988. For those distinguished alumni and pioneers of our specialty who couldn't make it last year, they were invited back this year to receive their special Chairman's Medal. Even our oldest alumni, Dr. Leslie Chasmar (graduate of 1956), came out to celebrate with us again. New this year, was the inaugural Fellowship Recognition which was issued to all of recent Fellows completing fellowships in June 2018. They each received their fellowship certificates but also a unique token from the Division:

Royal College Fellowships

Congratulations to the class of '18! We are all delighted to celebrate the success at the Royal College Fellowship exams of all three of our senior residents: **Dr. Jana Dengler, Dr. Maryam Saheb-Al-Zamani, and Dr. Sebastian Vrouwe**

We have been busy making improvements to our website which includes highlighting the work that is being done in both peripheral nerve and wound care (<https://www.uoftplasticsurgery.ca/programs/peripheral-nerve/>). A brand new build of a **Competency by Design page** that contains all resources related to CBD (accessible via login and password only). We have also revitalized the entire **Seminar section**, thanks to the efforts of Dr. Joan Lipa, current trainee Tomas Saun and recent graduate Sebastian Vrouwe. There now exists only the most current-up-date seminars, all with a consistent naming convention along with study notes (generously provided by Drs Ryan Austin & Blake Murphy).

The divisional website is cloaked in great design with ease of use, containing integrated social media buttons for Facebook as well as soon to appear Twitter. A debt of gratitude goes to Helen Rubtsov from AR-Studio for the design, user experience, and content with creative direction! **Coming soon: Faculty Teaching Assignments Page** which will be featured on the password protected site. Faculty will be able to download their own divisional teaching reports, which can then be used towards CME credits, promotion applications, updates to their CV's etc. We hope you find the improvements to the website fresh and modern; we

worked hard to make sure it contains valuable information to assist you with your needs. For any questions, suggestions, feedback or comments, please E-mail me at: plastics.admin@utoronto.ca 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/>

Publications: 76

Grants: 12





Division of Thoracic Surgery

Thomas Waddell, *Chair*

Dr. Laura Donahoe successfully organized a CATS Postgraduate Course at the 2017 Canadian Surgery Forum in Victoria, BC

Dr. Marcos Galasso received first prize - \$500 McMurrich Award - Inactivating hepatitis C virus (HCV) from donor lungs using light therapies during ex-vivo lung perfusion (EVLP)

Dr. Jonathan Yeung was selected by the AATS Foundation to receive one year of funding as one of our Surgical Investigators. The Foundations Board of Directors was most impressed with Dr. Yeung's research proposal and unanimously supported the recommendation of the Review Committee.

The Japanese Canadian Cultural Centre (JCCC) and TGWHF co-hosted the *Ninth Sakura Gala* on April 18, 2018 at the Royal Ontario Museum in honour of Dr. Kazuhiro Yasufuku. Proceeds from this collaborative fundraising event will support the JCCC and Dr. Yasufuku's visionary research in the Lung Program at Toronto General Hospital, University Health Network (UHN). Dr. Yasufuku was also awarded by the Board of The National Sanitarium Association with a grant under its Innovative Research Program, based on his application

“Transbronchial Nanotechnology-mediated PDT of Peripheral Lung Cancer”. The grant runs for a total of five years, yearly instalments in the amount of \$1,000,000.

We invited Dr. Joel Cooper, Thoracic Surgeon and Former Chief of Thoracic Surgery at The University of Toronto, Washington University in St. Louis, and The University of Pennsylvania Health System, as our Visiting Professor for our 2nd Toronto Update on Lung Transplantation and Artificial Lung Support Conference that was held on June 7, 2018. The following day, Dr. Cooper was joined by Dr. Joshua R. Sonett from Columbia University, NY, and Dr. John Reynolds from St. James's Hospital and the Trinity School of Medicine in Dublin, Ireland, as our Visiting Speakers for our 44th Toronto Thoracic Surgery Refresher Course held on June 8-9, 2018.

We invited Dr. Jean Deslauriers, Professor Emeritus from Laval University, as our Visiting Professor for our 15th Annual Pearson Day that was held on June 15, 2018. Dr. Anne-Sophie Laliberte received the Clinical Research award and Dr. Yui Watanabe received the Basic Science Research Award.

Publications: 41



Division of Urology

Neil Fleshner, *Chair*

The Division of Urology had another productive academic year. We currently retain 28 full time faculty as well as 3 full-time PhD scientists, across six fully affiliated University-based hospitals. We train 56 students, comprised of 28 residents and 28 fellows.

Recruitment

Dr. Nathan Perlis joined the faculty of University Health Network. Dr. Monica Farcas joined the faculty at St. Michael's Hospital and Dr. Yonah Krakowsky was added to the faculty at Mount Sinai Hospital.

Retirement

After 42 years at University Health Network, Dr. Michael Robinette hung up his scrubs for the final time.

Academic Promotion

Rob Hamilton received promotion to Associate Professor.

Research Grants

The Division of Urology had another banner year in terms of peer-reviewed grant capture. The following faculty served as PI's or Co-PI's on peer-reviewed grants totaling over five million.

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

Resident Awards

Dr. Andrew DiPierdomenico won the Patrick Harty Award for Excellence in Patient Care.

Dr. Mitch Goldenberg was the recipient of a RCPSC Strategic Alignment Grant.

Dr. Chris Wallis was singled out as the Journal of Urology's Best Reviewer in prostate cancer. At Gallie Day this year, he took second prize.

Dr. Keith Lawson accepted a KCNRC/KCC/CUASF grant for his work on bi-specific T cell engager strategy for renal cell carcinoma.

Dr. Rano Matta won a CIHR Banting & Best scholarship and accepted a "Best in Category" award from the International Continence Society for his work on cost utility analysis for UDS in post-radical prostatectomy incontinence.

The International Society noted Dr. Alexi Millman for Study of Female Sexual Health for her work in female sexual dysfunction awareness and education among resident physicians.

Dr. Diana Magee accepted a Sopman Humanitarian Award as well as a QEII graduate scholarship.

Residents enrolled in the Surgical Scientist Training Program are include Drs. Douglas Cheung, Amanda Hird, Keith Lawson, Diana Magee and Rano Matta.

Drs. Thomas Canil & Sarah Peltz successfully completed their Royal College exams.

Visiting Professors

Dr. Stephen Nakada of the University of Wisconsin was this year's Menkes Visiting Lecturer in Renal Disease.

Dr. Martin Gleave of the University of British Columbia was our Robson Visiting Professor. At this annual research day, winners included Drs. Alaina Garbens, Amanda Hird, Hanan Goldberg and Luke Reynolds.

SITE UPDATES

Hospital for Sick Children

Dr. Darius Bagli continues his basic research in bladder diseases with projects funded by the CIHR, PSI, Kidney Foundation, AUA Foundation, and the Society for Pediatric Urology. He has multiple peer-reviewed publications in journals such as Journal of Pediatric Urology, American Journal of Pathology, Transplantation, Journal of the American Society of Nephrology and Bladder. He supervises 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 continues 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 nationally and internationally.

Dr. Martin Koyle continues as Department Head at the Hospital for Sick Children. This year he has accepted numerous requests as a visiting speaker around the world. He remains as Core Faculty of the Centre for Quality Improvements and Patient Safety, as well as Professor at the Institute of Health Policy, Management & Evaluation. He continues to hold a place in the Top Ten Reviewers for the Journal of Urology.

Dr. Armando Lorenzo continues his work in clinical epidemiology and minimally invasive pediatric surgery. His research is funding comes from the Hospital for Sick Children Inaugural Innovation Fund, PSI, and the Medical Council of Canada. His publication rate is one of the highest this year. He has been an invited speaker in Europe and North America. He has played a key role in coordinating resident surgical skills sessions.

Mount Sinai Hospital

Dr. Bharati Bapat continues her work in epigenetics and cancer biology in bladder and prostate cancer. She continues to procure peer-reviewed funding and lectures around the world.

Dr. Ethan Grober continues 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. He is an invited speaker across North American and was instrumental in developing Canadian Urology Association Guidelines on Peyronies and Congenital Penile Curvature.

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). This year he joined the clinical faculty of the Department of Obstetrics & Gynecology. He was an invited speaker within North America. Most notable this year is that he played a major role in the never before developed scrotal pain guidelines. He continues 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. Dr. Yonah Krakowsky is the Surgical Lead of the Transgender Surgery Program at Women's College Hospital. During his first month as faculty, he secured two grants. Divisionally he is leads undergraduate education and is Assistant Residency Program Director.

Dr. Kirk Lo continues 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 takes the lead in our annual Robson Research Day. He was an invited speaker in the U.S. and Canada and is on the editorial board of the Asian Journal of Urology and Scientific Reports.

Dr. Alexandre Zlotta continues to receive speaker requests from across the globe. He continues his research with funding from Ontario Institute for Cancer Research, CIHR, Canadian Cancer Society Research Institute, and the Canadian Uro-oncology Group. This year he received 1.5 million dollars in grant funding from Prostate Cancer Canada and 1.3 million dollars in the way of a CCSRI Impact grant.

Sunnybrook Health Sciences Centre

Dr. Lesley Carr continues 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 continues to be fundamental in the organization of our Journal Club seminars.

Dr. Sender Herschorn continues research in urinary incontinence, neurogenic bladder over-activity, and erectile dysfunction with projects funded by Allergan, Astellas, and Johnson and Johnson (Contura). He was invited lecturer around the globe. He continues to direct the annual U ofT Urology Update. He took the “Best Poster” at the 2018 American Urology Association meeting on the topic of Hemi-Khock continent stomas. The International Continence Society presented him with a Lifetime Achievement Award.

Dr. Laurence Klotz continues his research in urologic oncology. He continues as Chair of the Canadian Urology Research Consortium (CURC), the World Uro-Oncology Federation (WUOF), and the International Urologic Research Society. He continues his many peer-reviewed research projects with funding from NCIC, Prostate Cancer Canada, CIHR and Ferring. He is a sought after speaker across the globe.

Dr. Ron Kodama continues to work endlessly as Department Head at Sunnybrook. His direction with our CaRMS Committee is very much appreciated.

Dr. Robert Nam continues his work on his peer-reviewed projects. His funding is currently from NCIC and CIHR. He was an invited speaker in countries around the globe. He is a Canadian site lead for a large NIH grant on prostate biopsy. He was reappointed the Ajmera Family Chair in Urologic Oncology and takes the lead in the Sunnybrook Prostate Centre.

Dr. Vasundara Venkateswaran continues 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. 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 is a sought after speaker across North America, Europe and Asia. His publication rate for this year is one of the highest. He continues in his role as Division Head and honorary Chair of Road Hockey to Conquer Cancer program and committee. This year he received the Anna-Lisa Farquharson Chair in Kidney Cancer Research.

Dr. Neil Fleshner continues as Chair of the Division. 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 continues to receive speaker requests from around the world.

Dr. Robert Hamilton continues his work on statins, testicular and prostate cancer. He has served as either PI or CoI on grant funding of just under \$400,000 this past year. He shares the highest publication rate this year.

Dr. Michael Jewett continues 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. Girish Kulkarni continues his epidemiological research in bladder and prostate cancer with peer-reviewed funding. He obtained \$150,000 in grant funding this year and has one of the highest publication rates this year.

Dr. Jason Lee joined the University Health Network faculty this year and remains in his role as Residency Program Director leading our change to a competency based curriculum. As the UHN Director of Robotic and Surgical Simulation & Education, he led the first UPJ Basic Skills in Robotic Surgery training course.

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. Nathan Perlis interests are in uro-oncology and focal therapy. He won a CUA New Investigator award within months of joining the faculty.

University Health Network (TWH)

Dr. Dean Elterman's Continuing Appointment was approved this year. In his role as surgeon-investigator his interest is in the sphere of men's health, incontinence and reconstructive surgery.

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

America. This year he was co-recipient of the Andrew Bruce Faculty Teaching Award.

Dr. Sidney Radomski continues his work in incontinence, overactive bladder and erectile dysfunction. He continues in his role as Assessor of Educational Performance for the Department of Surgery. He was co-recipient of the Andrew Bruce Faculty Teaching Award.

St. Michael's Hospital

Dr. Michael Ordon continues in role of surgeon-investigator. His interests include large database outcome analyses as well as percutaneous renal tumor ablation.

Dr. Kenneth Pace continues as Department Head St. Michael's Hospital. He also holds the role of Fellowship Coordinator for the Division. He remains busy in the area of clinical epidemiology, stone disease & minimally invasive surgery.

Dr. Robert Stewart remains as the principal urologist in the kidney transplantation program.

Publications: 158
Grants: 10





Division of Vascular Surgery

Thomas Forbes, *Chair*

The 2017/18 academic year was another successful one for the Division of Vascular Surgery. All four of our graduating residents were successful at their Royal College exams. Congratulations to Drs. Musaad Al-Hamzah, Lukasz Boba, Dennis Jiang and Miranda Witheford. 2018 wrapped up with the Canada Day announcement that Dr. K. Wayne Johnston had been named to the Order of Canada for his “foundational leadership as a surgeon, researcher and educator in the field of vascular surgery in Canada”, the ultimate example of our principles and vision, “United in a Tradition of Leadership, Discovery and Excellence”.

Leadership:

Faculty surgeons continue to lead locally, nationally and internationally. Dr. Thomas Lindsay continues as Chair of the RCPSC Specialty Committee in Vascular Surgery. On the national level, Dr. George Oreopoulos continues to serve as Chair of the Education Committee of the Canadian Society for Vascular Surgery while Dr. Graham Roche Nagle chairs the Quality Committee. University Division Chair, Dr. Thomas Forbes continues as Associate Editor of the Journal of Vascular Surgery and Chair of the Society for Vascular Surgery’s Document Oversight Committee, responsible for the development of evidence based clinical practice guidelines. Provincially, U of T surgeons lead several initiatives in health delivery planning at CorHealth Ontario with Dr. Forbes as Co-Chair of the Clinical Advisory Committee and Drs. Mohammed Al-Omran, Andrew Dueck, Thomas Lindsay and Marc Pope serving on the Vascular Leadership Council. At UHN, Dr. Barry Rubin continues to lead the Peter Munk Cardiac Centre as Medical Director and Dr. George Oreopoulos, our Residency Program Director, is the Director of Postgraduate Surgical Education at UHN.

Discovery:

The year marked unprecedented academic productivity as measured by publications and grants. U of T faculty and residents had many presentations at the CSVS Meeting in

Banff where Dr. Trisha Roy won Gore Research Award and the Luke Award for Best Presentation. Residents and faculty presented at other meetings throughout the year including the Society for Vascular Surgery meeting in Boston where U of T had 10 abstract presentations. Our residents enrolled in the Surgeon Scientist Training Program continued to inspire us with Drs. Trisha Roy and Mohammad Hussain successfully completing their PhD’s while Lauren Gordon was awarded a Banting and Best Scholarship Award from CIHR and the Robert Maudsley Medical Education Fellowship from the Royal College. In addition Dr. Sean Crawford was awarded a Surgical Alumni Fellowship Award for outstanding performance in the SSTP. An important addition to our Division’s research support was the introduction of the Blair Early Career Professorship program which supports an early career surgeon-scientist at each of the 3 main academic hospitals. The inaugural professorships were awarded to Drs. John Byrne, Ahmed Kayssi and Mohammad Qadura and they have completed one year of their Professorships. An exciting new funded position was announced this year with Dr. Giuseppe Papia being named the inaugural John Ross and Patricia Quigley Chair in Limb Preservation. During the year we also benefitted greatly by a series of visiting professors including Drs. Stephan Haulon from Paris, Ross Milner from the University of Chicago, Benjamin Starnes from the University of Washington (Harland-Smith Lecture), Dawn Coleman from the University of Michigan and Sonia Anand from McMaster.

Excellence:

Prior to this year, only one non-U.S. based physician had been awarded the prestigious Wylie Scholar Award. This so happened to have been our Dr. Barry Rubin, who this year was joined by U of T’s Dr. John Byrne (UHN, Peter Munk Cardiac Centre) when he was awarded the 2018 Wylie Scholar Award by the Vascular Cures Foundation. The third annual National Vascular Surgery Bootcamp was a huge success with first year residents attending from across the country including those from McMaster, Western, McGill, Université de Montreal, University of

Ottawa and U of T. The bootcamp's success was largely due to its faculty coordinators, Drs. Mark Wheatcroft and George Oreopoulos and our Administrative Assistant, Michelle Paiva. The highlight of the academic year was our annual Research Day and Graduation Dinner where we were joined by Dr. Julie Freischlag from Wake Forest as the 7th K. Wayne Johnston Visiting Lecturer. Research Day was packed with excellent presentations with Awards going to Dr. Sneha Raju (Best Presentation by a Junior Resident), Dr. Omer Abdulrahim (Best Presentation by a Senior Resident/Fellow) and Dr. Sean Crawford (Alumni Award for Best SSTP Presentation). The residents and fellows voted for the top teacher among the faculty surgeons and residents. Congratulations to Drs. Thomas Lindsay (UHN) and Miranda Witheford for winning the faculty and resident awards respectively.

Publications: 43

Grants: 7



Continuing Appointment Reviews 2017-18



Left to Right: N. Mahomed, M. Kapoor, S. Keshavjee



Left to Right: A. Nathens, J. Bhatti, D. Redelmeier, C. Swallow



Left to Right: S. Radomski, D. Elterman, A. Finelli, N. Fleshner



Left to Right: S. Verma, K. Singh, M. Al-Omran, T. Forbes



Left to Right: P. Ferguson, J. Theodoropoulos, T. Dwyer, D. Ogilvie-Harris, J. Wunder

Continuing Appointment Reviews 2017-18



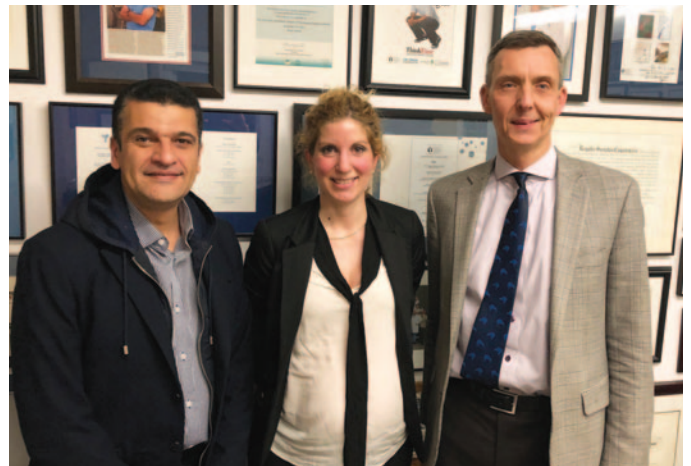
Left to Right: R. George, A. Scheer, N. Baxter



Left to Right: C. Swallow, A. Pierro, C. Caldarone



Left to Right: P. Ferguson, M. Camp, M. Gargan



Left to Right: M. Al-Omran, E. Greco, T. Forbes



Left to Right: N. Fleshner, M. Ordon, K. Pace, M. Mamdani

Continuing Appointment Reviews 2017-18



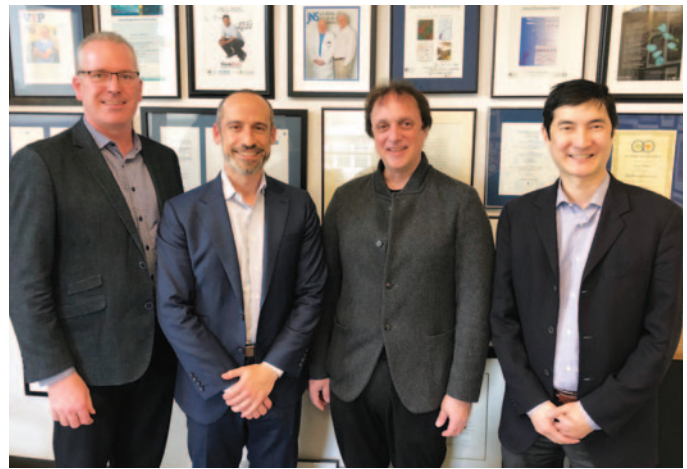
Left to Right: C. Forrest, K. Wong, C. Caldarone



Left to Right: A. Lozano, M. Fehlings, P. Kongkham, S. Keshavjee



Left to Right: T. Forbes, N. Ahmed, M. Wheatcroft, O. Rotstein



Left to Right: P. Ferguson, D. Wasserstein, P. Marks, A. Yee



Left to Right: V. Rao, M. Badiwala, G. Van Arsdell, S. Keshavjee



The Hospital For Sick Children

James Drake,
Surgeon-in-Chief
Dr. Robert B. Salter,
Chair in Surgery

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)

Division of General Surgery

Dr. G.R. Azzie	Associate Professor
Dr. P.P.I. 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

Division of Neurosurgery

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

Division of Orthopaedics

Dr. M. Camp	Assistant Professor
Dr. M. Gargan	Associate Professor (Division Head)
Dr. S. Hopyan	Associate Professor
Dr. A. Howard	Professor (Interim Division Head Apr 2018)
Dr. S. Kelley	Assistant Professor
Dr. M.L. Murnaghan	Assistant Professor
Dr. U.G. Narayanan	Associate Professor
Dr. R. Zeller	Associate Professor



Division of Plastic and Reconstructive Surgery

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

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

Cardiovascular Surgery

- John Coles and Jason Maynes, Integrin Linked Kinase as a Novel Therapeutic Target for Heart Failure, CIHR grant award.

General & Thoracic Surgery

- The Perioperative Services Leadership Award was created to continue John Wedge's legacy and this award is presented on an annual basis typically at the Surgeons Dinner, to a member of Perioperative Services who exemplifies the principles of team ball. I am pleased to announce that this year's recipient of the Perioperative Services Leadership Award is Annie Fecteau. Annie's work with NSQIP, however, is exceptionally noteworthy. Annie set up and serves us all as the Surgeon Champion for the NSQIP initiative which collects data from SickKids and centers across North America to allow us to compare our outcomes to other centers.
- Dr Ted Gerstle left SickKids to assume the position of Chief of Pediatric Surgery at Memorial Sloan Kettering Cancer Center in New York City, USA in May, 2018. Dr. Gerstle has been trained in Pediatric Surgery at SickKids and assumed the position of Staff Surgeon in the Division of General and Thoracic Surgery soon after. He was the Fellowship Program Director from 2006 to 2013 and during the last 4 years the Director of Surgical Oncology. From 2011 to 2016 he was the Surgical Director for the Qatar new Children's Hospital Project, SickKids International. Recently he has been appointed as Associate Scientist in Translational Medicine Program.
- Dr. Justyna Wolinska joined the Division effective November 6, 2017 through June 30, 2019.

Neurosurgery

- Dr. James Drake will be assuming the role of Interim Surgeon-in-Chief effective Monday, June 11th. This appointment follows Dr. Chris Caldarone's recent decision to pursue an exciting opportunity at Texas Children's Hospital in Houston.
- Peter Dirks, Stem Cell Related Genesis and Maintenance of Glioblastoma, CIHR grant award.

- Jim Rutka, Enhancing the Delivery of Novel Chemotherapeutics to Diffuse Intrinsic Pontine Glioma, CIHR grant award.
- Dr. Abhaya Kulkarni - UofT "2018 Award for Excellence in Postgraduate Medical Education in the category of Teaching Performance, Mentorship and Advocacy". This award embodies a true testament of Ab's dedication, his mentorship capabilities and innovation approach to teaching. Congratulations on this well-deserved recognition!
- Effective March, 2018 Perioperative Services, The Transplant and Regenerative Medicine Centre and the Divisions of Nephrology and Urology were delighted to announce the appointment of Dr. Armando Lorenzo as Surgical Director of Pediatric Renal Transplantation at SickKids. Dr. Lorenzo is a pediatric urologist, an Associate Professor of Surgery at the University of Toronto who joined SickKids in 2005.

Orthopaedic Surgery

- Dr. Martin Gargan, Head of the Division of Orthopedic Surgery will be leaving the Hospital for Sick Children in March, 2017 to take on a new post as the Clinical Director of Surgery at the Bristol Royal Hospital for Children in the United Kingdom.
- Effective May 1, 2018 Dr. Andrew Howard has kindly agreed to serve as the Interim Head of the Division of Orthopedic Surgery at the Hospital for Sick Children. Dr. Howard is a paediatric orthopaedic surgeon who has a large and diverse clinical practice. In addition to his surgical training, he holds a Master's of Science in Epidemiology (1998) from the University of Ottawa.

Plastic and Reconstructive Surgery

Urology



Michael Garron Hospital

Carmine Simone,
Surgeon-in-Chief

The **Michael Garron Hospital (MGH)**, is a proud member of the Toronto East Health Network. We have started construction on our new patient-care tower and hospital campus scheduled to be completed by 2021. The new facility, coupled with the MGH commitment to community-based healthcare, will ensure state-of-the-art equipment and patient – centered care programs. This will enable us to set a new standard in surgical care and surgical education.

Our Department 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 approximately 16,500 operative cases in Fiscal Year (FY) 2017/18. The Department of Surgery accounts for the largest proportion of cases within the Surgery Health Service.

Along with the rest of the organization, we support patient safety initiatives such as falls prevention, skin ulcer prevention, prevention of ventilator-associated pneumonia and prevention of 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 is also the Medical Lead for our new NSQIP Quality Program, which was launched



in the Fall of 2017. Dr. Aarts and **Dr. Jamie Cyriac** have been instrumental in the development and continued 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. Our Division of Orthopedic surgery has been recognized for outstanding work in reducing the length of hospital stay of total knee arthroplasty patients at MGH and have presented their outcomes at the Quality

Improvement and Patient Safety Forum (October 23, 2017) and at the Health Quality Transformation (October 24, 2017).

The new Head of the Division of Orthopedic Surgery, **Dr. Paul Wong** is working to develop new programs such as novel surgical approaches to hip replacement and same-day discharge after joint replacement. **Dr. William Kraemer** continues to grow our spinal surgery program and **Dr. Jihad Abouali** is growing our Sports Medicine practice. We welcomed our latest member of the Division of Orthopedic Surgery **Dr. Dmitry Tsvetkof** in July 2017.

Dr. Hany Sawires leads the growth of our multidisciplinary Breast Diagnostic Clinic. The clinic focuses on breast cancer diagnosis and treatment as well as welcoming patients with any and all breast health concerns. We welcome **Dr. Caileigh Pilmer**, a GP-oncologist, to our Breast Diagnostic Clinic.

The Department's thoracic surgery team welcomes a new partner – **Dr. Sayf Gazala** who joined our team July 1, 2017 and will be expanding our use of the Morbidity and Mortality Database (TM&M) for classifying surgical outcomes and complications as part of our Surgical Quality agenda.

The thoracic surgery service is expanding its telemedicine commitment. We have been participating in Ontario Telehealth Network (OTN) clinics, which requires both patient and physician at OTN centers. 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.

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:

1. Robotic Urology Surgery program;
2. Cardiac Surgery as part of our comprehensive cardiology program;
3. Radiation Oncology (credentialed through Department of Surgery) as part of our thoracic, breast, colon and prostate oncology programs;
4. Peripheral vascular surgery;
5. Integrated head and neck/thoracic oncology program.

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 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 Respiriology, and our partnerships with Odette Cancer Centre, North York General Hospital, Royal Victoria Hospital, Lakeridge 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.

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 teaching effectiveness score (TES) for residents continues to be above the city median TES. We have 2 of our surgeons have the highest University TES within their respective Division.

MGH Department of Anesthesia has established a core thoracic anesthesia rotation for PGY5 anesthesia residents. This rotation serves as an example of the collaborative spirit of our Health Service members.

Dr. N. Safieddine has been instrumental in the creation of the Surgery Quality Improvement Curriculum that has become an important addition to surgical residency training at the University of Toronto.

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. Jihad Abouali** was awarded a MGH Collaborative Education Research Grant. **Dr. Linda Dvali** received the Arnis Freiberg Faculty Teaching Award for outstanding contributions to Plastic Surgery Resident Education.

Dr. R. Singal has spent significant time working in Malawi, Kenya and Uganda to explore and develop programs enhancing surgical safety throughout Africa. Dr. Singal has established the Urology Global Health Fund at University of Toronto to support and expand the urology training program in Zomba, Malawi - which he also established.

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.

Publications:

Emergency Room Visits and Readmissions Following Implementation of an Enhanced Recovery After Surgery (iERAS) Program.

Wood T, **Aarts MA**, Okrainec A, Pearsall E, Victor JC, McKenzie M, Rotstein O, McLeod RS; iERAS group. *J Gastrointest Surg*. 2018 Feb;22(2):259-266.

Compliance with Urinary Catheter Removal Guidelines Leads to Improved Outcome in Enhanced Recovery After Surgery Patients.

Okrainec A, **Aarts MA**, Conn LG, McCluskey S, McKenzie M, Pearsall EA, Rotstein O, Victor JC, McLeod RS; members of the iERAS Group. *J Gastrointest Surg*. 2017 Aug;21(8):1309-1317.

Postoperative ERAS Interventions Have the Greatest Impact on Optimal Recovery: Experience With Implementation of ERAS Across Multiple Hospitals.

Aarts MA, Rotstein OD, Pearsall EA, Victor JC, Okrainec A, McKenzie M, McCluskey SA, Conn LG, McLeod RS; iERAS group. *Ann Surg*. 2018 Jun;267(6):992-997.

Three-Dimensional Imaging and Breast Measurements: How Predictable Are We? Steen K, Isaac KV, Murphy BD,

Beber B, Brown M.

Aesthet Surg J. 2018 May 15;38(6):616-622.

Effect of Home Monitoring via Mobile App on the Number of In-Person Visits Following Ambulatory Surgery: A Randomized Clinical Trial.

Armstrong KA, Coyte PC, Brown M, **Beber B**, Semple JL.

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Next-generation prostate cancer risk calculator for primary care physicians.

Nam RK, Satkunavisam R, Chin JL, Izawa J, Trachtenberg J, Rendon R, Bell D, **Singal R**, Sherman C, Sugar L, Chagin K, Kattan MW.

Can Urol Assoc J. 2018 Feb;12(2):E64-E70.

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Goldenberg MG, Skeldon SC, Nayan M, Suppiah Y, Chow L, Fryml E, Greenberg D, **Singal R**, Goldenberg SL.

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Can J Urol. 2017 Feb;24(1):8646-8650.

Does Study Design Affect Redislocation Rates After Primary Shoulder Dislocations? A Systematic Review Comparing Prospective and Retrospective Studies.

Gohal C, Rofaiel J, **Abouali J**, Ayeni OR, Pinsker E, Whelan D.

Arthroscopy. 2017 Oct;33(10):1876-1881.

Current Uses of the Transtrochanteric Approach to the Hip: A Systematic Review. Mei XY, Bhanot K, **Tsvetkov**

D, Rajgopal R, Safir OA, Kuzyk PR.

JBJS Rev. 2018 Jul;6(7):e2.

Regional differences in use of endoscopic ultrasonography in Ontario: a population-based retrospective cohort study.

James PD, Hegagi M, Antonova L, Tinmouth J, Heitman SJ, **Simone C**, Yeung E, Yong E.

CMAJ Open. 2017 Jun 7;5(2):E437-E443.



Mount Sinai Hospital

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



Division of General Surgery

Dr. Mantaj Brar	Assistant Professor
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	Assistant Professor
Dr. Helen M. MacRae	Professor
Dr. Judith Andrea McCart	Assistant Professor
Dr. Robin S. McLeod	Professor
Dr. Carol Jane Swallow	Professor (Division Head)
Dr. Anthony de Buck Van Overstraete	Assistant Professor

Division of Orthopaedics

Dr. D. Backstein	Associate Professor (Division Head)
Dr. P. Ferguson	Assistant Professor
Dr. A. Gross	Professor
Dr. P. Kuzyk	Assistant Professor
Dr. O. Safir	Assistant Professor
Dr. J.S. Wunder	Professor

Division of Urology

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



North York General Hospital

Lloyd Smith, *Surgeon-in-Chief*



Division Heads

General Surgery – Dr. Nancy Down
 Orthopedics – Dr. Hossein Mehdian
 Plastics – Dr. Sean Rice
 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 Iu
 Dr. Neelesh Jain
 Dr. Donna McRitchie
 Dr. Fatima Osman
 Dr. Brian Pinchuk
 Dr. David E. Smith
 Dr. Peter Stotland
 Dr. Natalya Zhang

Division of Orthopaedics

Dr. Gladys Chan
 Dr. Dale Dantzer
 Dr. Herman Dhotar
 Dr. Shawn Garbedian
 Dr. Frank Mastrogiacomio
 Dr. Ian Mayne
 Dr. Hossein Mehdian (Division Head)
 Dr. Christopher John Peskun

Division of Plastics

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

This has been a busy year in the Department of Surgery at North York General Hospital. The volume of emergency cases has continually gone up, putting pressure on our surgical services. North York General is heavily invested in the Acute Care model of care for looking after these urgent cases. We have dedicated acute care services in General Surgery, Orthopedics, Plastic Surgery and Urology. This includes protected daytime OR time in each of these areas. This model of care provides better access for our patients and improved surgical care. The acute care service in Urology is the first in Canada.

At NYGH we have worked very hard on keeping our surgical wait times low. Since 2012 we have been the provincial leaders in wait times for hip and knee replacement and cancer surgery. In 2017/18 North York General was given the awards by Cancer Care Ontario for best wait times for wait 2 (decision to treat to surgery) for the fifth year in a row, and for wait 1 (referral to consult) for the third year in a row. We have also been able to operate on greater than 96% of our hip fractures within 48hrs.

The number of learners in the Department of Surgery has been steadily increasing. We have also been getting many students on elective from the University of Toronto and other Universities.

In General Surgery the number of residents has been slowly increasing. It is an extremely popular rotation for resident training. One of the reasons may be that there are no surgical fellows. We have also started an Interdisciplinary Care Collaborative in colorectal surgery which includes a dedicated nurse navigator for patients.

In Plastic Surgery Dr. Bernd Neu finished his term as Division Head and has been replaced by Dr. Sean Rice. Our Plastic Surgery Division has been taking residents on a regular basis this year. The rotation has been very successful. We are hoping to increase the resident education in Plastic surgery over time.

In Orthopedics Dr. Bob Brock retired from active surgical practice. He will continue to be involved in ambulatory activities. We have recruited Dr. Frank Mastrogiacomo and Dr. Ian Mayne. Dr. Mastrogiacomo will help us keep up the high volume of hip and knee replacement surgeries. Dr. Mayne does shoulder surgery and sports orthopedics.

The Department of Surgery at NYGH has become part of the Surgical Safety Network using the “Black Box” technology for assessment of surgical performance. We started using the “Black Box” in February 2018. We are only the second hospital in Canada to start using this technology. We are hoping it will help to improve surgical safety and be an active research tool.

NYGH was awarded WSIB contracts this year to provide services for Upper Extremity, Lower Extremity and General Surgery.

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



St. Joseph’s Health Centre

Chris Compeau, *Surgeon-in-Chief*

Division Heads

General Surgery	Paul Sullivan
Thoracic Surgery	Michael Ko
Orthopedic Surgery	Amr El Maraghy
Plastic Surgery	Craig Fielding
Urology	Ashis Chawla

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. Annual surgical volumes have progressively increased in our priority programs (hepatobiliary, thoracic surgery, bariatrics, arthroplasties). Specifically we are a provincially recognized Level 1 centre for both thoracic surgery and hepatobiliary surgery and are a provincial centre of excellence for bariatric surgery. Dr. Victoria Cheung, who completed thoracic surgery fellowship training in Calgary, joined our thoracic surgery group in July of this year. Dr. Hanmu Yu, a former urology fellow at St. Joseph’s, joined our urology staff group in September as well.

From an educational perspective there has been an increase in the number of undergraduate, graduate and postgraduate medical trainees in our surgery program. In particular the Fitzgerald Academy in the University of Toronto, Department of Medicine has integrated St. Joe’s into its core educational stream in Thoracic Surgery. We acknowledge and celebrate the outstanding contribution of educators and divisions within the Health Centre. The division of plastic surgery at St. Joe’s was awarded the ‘2018 Excellence in Medical Education Award – Small Program Category’ at St. Joseph’s Health Centre. Many of our surgeons hold educational administrative leadership positions – this past year Dr. Kyle Wanzel was appointed program director of plastic surgery at the University of Toronto.



The impact of a 2017 merger between St. Joseph’s Health Centre, St. Michael’s Hospital and Providence Health Centre continues to slowly unfold. A strategic planning initiative is currently underway and will most likely incorporate some form of future clinical integration across the Health Care Network.



St. Michael's Hospital

Ori D. Rotstein,
Surgeon-in-Chief

Division Heads

Cardiac Surgery:	Dr. David Latter
General Surgery:	Dr. Nancy Baxter
Neurosurgery:	Dr. Julian Spears
Orthopaedic Surgery:	Dr. Tim Daniels
Urology:	Dr. Kenneth Pace
Vascular Surgery:	Dr. Mohammed Al-Omran

Division of Cardiac Surgery

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

Division of General Surgery

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

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 (Division Head)
Dr. J. Wilson	Assistant Professor

Division of Orthopaedics

Dr. H. Ahn	Assistant Professor
Dr. A. Atrey	Assistant Professor
Dr. E.R. Bogoch	Professor
Dr. T. Daniels	Professor (Division Head)
Dr. J. Hall	Assistant Professor
Dr. A. Khoshbin	Assistant Professor
Dr. A. Nauth	Assistant Professor
Dr. E. Schemitsch	Professor
Dr. J.P. Waddell	Professor
Dr. S. Ward	Lecturer
Dr. D. Whelan	Associate Professor

Division of Plastic and Reconstructive Surgery

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

Division of Urology

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

Division of Vascular Surgery

Dr. M. Al-Omran	Professor (Division Head)
Dr. C. de Mestral	Assistant Professor
Dr. E. Greco	Assistant Professor
Dr. M. Qadura	Assistant Professor
Dr. M.D. Wheatcroft	Assistant Professor

This past year has been faced with many changes and new faces to the organization. First and foremost, we welcome our partners in our newly integrated health network that was created in August 2017 to include St. Michael's Hospital, St. Joseph's Hospital and Providence Healthcare. Our three catholic organizations are better positioned to serve our patients, residents and clients across the full spectrum of care, spanning primary care, secondary community care, tertiary and quaternary care services to post-acute through rehabilitation, palliative care and long-term care, while investing in world-class research and education. In April we celebrated a legacy and said farewell to our CEO over the past seven years, Dr. Robert Howard. At the same time we welcomed new CEO, Dr. Tim Rutledge. We look forward to working closely with our new leadership and foster the development that our new health network will aspire to be. We welcomed three new faculty members to the Department of Surgery at St. Michael's Hospital.

Dr. Charles de Mestral joined the Division of Vascular Surgery. Dr. de Mestral completed his vascular surgery residency at the University of Toronto. Dr. de Mestral obtained his PhD at the Institute of Medical Science at the University of Toronto under the mentorship of Dr. Avery Nathens focusing on health services research and economic evaluation. His clinical interests are in vascular and endovascular surgery. His research focus includes evaluative foot care and amputation prevention, quality of vascular surgical care, emergency surgical care and injuries. Dr. de Mestral has also recently received a Blair Foundation Innovative Fund grant.

Dr. Amir Khoshbin joined the Division of Orthopaedic Surgery. Dr. Khoshbin completed his orthopaedic training at the University of Toronto followed by an orthopaedic trauma fellowship at Harvard University. Dr. Khoshbin completed a Master of Science degree at the University of Toronto in clinical epidemiology under the mentorship of Dr. James Wright. His clinical activities will focus on the delivery of high quality surgical care in arthroplasty and trauma. His research interests will aim at optimizing the delivery of total joint arthroplasty and common trauma procedures in the province of Ontario.

Dr. David Gomez Jaramillo joined the Division of General Surgery as a Trauma and Acute Care Surgeon. Dr. Gomez completed his general surgery training at the University of Toronto before completing a year's fellowship in trauma as well as a fellowship in upper gastrointestinal surgery in Australia. Dr. Gomez completed his PhD in clinical epidemiology through the Institute of

Medical Science under the mentorship of Dr. Avery Nathens. His clinical activities will focus on the delivery of high quality surgical care in trauma and acute care surgery. His research interests will specifically aim at optimizing health sciences research, as well as participating in activities that predominately look at health outcomes.

Each June we celebrate with the Annual St. Michael's Hospital Medical Education Achievement Day for Physicians. Awards are given to those who have dedicated their time and commitment to the educational mission at many levels over the past year. Dr. Jory Simpson won the Donald J. Currie Teaching Award in Undergraduate Education; Dr. James Mahoney won the William Horsey Postgraduate Teaching Award; the Jameel Ali Award in Continuing Education Award in Surgery went to Dr. Earl Bogoch; Dr. Colin Sue-Chue-Lam won the Leo J. Mahoney Resident Teaching Award, and Dr. James Waddell was honoured with the Hyland- Squires James Waddell Mentoring Award. Many other faculty received recognition for their academic activities in education and research. Dr. Michael Cusimano was inducted as a Fellow of the Canadian Academy of Health Sciences for his accomplishments in neurosurgery and research in brain injury prevention, clinical neuroscience and education. Dr. Mohammad Qadura was the recipient of a Blair Foundation Early Career Professorship for his work on preventing the progression of peripheral arterial disease and has established the first blood plasma biobank of its kind at St. Michael's Hospital through this funding. Dr. Adena Scheer and Dr. Sandra de Montbrun were each recipients of the Ewing and Faye Rae Professorships in Surgery. Dr. Nancy Baxter won the Bryce Taylor Mentorship Award and Dr. Sandra de Montbrun has been selected as one of two recipients of the 2018 Awards for Excellence in Postgraduate Medical Education in the category of Development and Innovation, and Dr. Ori Rotstein is the recipient of the JJ Berry Smith Doctoral Supervision Award.

The following faculty members were successfully been promoted this year from Assistant to Associate Professor at the University of Toronto: Dr. Sunit Das, Dr. Greg Fairn and Dr. Bernard Lawless.

It has been a tremendous 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 our academic mission.



Sunnybrook Health Sciences Centre

Dr. Avery Nathens,
Surgeon-in-Chief

Division of Cardiac Surgery

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

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. L. Da Luz	Associate Professor
Dr. D. Fenech	Associate Professor
Dr. B. Haas	Associate Professor
Dr. J. Hallet	Associate Professor
Dr. C. Holloway	Associate Professor
Dr. P.J. Karanicolas	Associate Professor
Dr. C. Law	Professor
Dr. N.J. Look Hong	Associate Professor
Dr. B. Nascimento	Associate Professor
Dr. A.B. Nathens	Professor
Dr. A.J. Smith	Professor
Dr. H. Tien	Associate Professor
Dr. L. Tremblay	Associate Professor
Dr. F. Wright	Professor

Division of Neurosurgery

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

Division of Orthopaedics

Dr. T.S. Axelrod	Professor
Dr. H.U. Cameron	Associate Professor



Dr. J.A. Finkelstein	Associate Professor
Dr. M. Ford	Associate Professor
Dr. J. Gollish	Associate Professor
Dr. P. Henry	Associate Professor
Dr. R. Jenkinson	Associate Professor
Dr. H.J. Kreder	Professor
Dr. L.P. Marks	Associate Professor
Dr. J.J. Murnaghan	Associate Professor
Dr. D. Nam	Associate Professor
Dr. M. Nousiainen	Associate Professor
Dr. B. Ravi	Associate 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	Associate Professor
Dr. C. Whyne	Associate Professor
Dr. C.S. Wright	Associate Professor
Dr. A. Yee	Professor (Division Head)

Division of Plastic and Reconstructive Surgery

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

Division of Urology

Dr. L.K. Carr	Associate Professor
Dr. S. Herschorn	Professor
Dr. L. Klotz	Professor
Dr. R.T. Kodama	Professor (Division Head)

Dr. R.K. Nam Professor
Dr. V. Venkateswarran Associate Professor

Division of Vascular Surgery

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

The Department of Surgery at Sunnybrook received an award from the American College of Surgeons National Surgical Quality Improvement Program (NSQIP) for achieving meritorious outcomes for surgical patient care. The recognition goes to centres with outcomes in the top 10% of all participating NSQIP hospitals. The trauma program was named the Tory Trauma Program in recognition of the Tory family’s support. The program introduced the Bleeding Control Course to Canada as part of the Stop the Bleed campaign. The Ross Tilley Burn Centre celebrated its 20th anniversary at Sunnybrook and was successfully re-verified by the American Burn Association. The Harquail family gifted the Harquail Centre for Neuromodulation for which Dr. Nir Lipsman was named the Director. As a Centre of Excellence in Focused Ultrasound, Sunnybrook’s team led the first FUS-based interventions in major depression, obsessive-compulsive disorder and Alzheimer’s disease.

Our Tile Visiting Professor in Trauma was Dr. Elon Glassberg, Colonel, Head of the Israeli Defense Forces Medical Department. Dr. Glassberg spoke on his humanitarian aid missions to the victims of the Syrian civil war.

Dr. Nir Lipsman was recruited to the Division of Neurosurgery and Dr. Ahmed Kayssi joined the Division of Vascular Surgery. Dr. Raj Satkunasivam (Division of Urology) left the University of Toronto for the University of Texas (Houston). Dr. Diane Nam was promoted to Associate Professor and Dr. Natalie Coburn to the rank of Professor. Dr. Nathens was re-appointed as Surgeon-in-Chief for a second term. Dr. Murnaghan assumed the role of Medical Director of the Holland Centre transitioning the role from Dr. Jeff Gollish who oversaw the development of Canada’s premiere lower extremity arthroplasty program. Dr. Brenneman took on the role of Program Director, General Surgery and Dr. Binhammer passed the baton to Dr. Fialkov as the Division Head, Plastic and Reconstructive Surgery. Dr. Paul Karanicolas was appointed Medical and Scientific Co-Director for Clinical Trial Services (CTS) at Sunnybrook Research

Institute. Dr. Frances Wright was appointed the Ontario Skin Cancer Lead by Cancer Care Ontario.

Dr. Laurence Klotz was awarded the Dean’s Lifetime Achievement Award by the University of Toronto for his contributions in the area of prostate cancer. Dr. Shady Ashamalla received the Ivan Silver Innovation Award in CPD for the Trans-anal Total Mesorectal Excision (TaTME) program. Dr. Fuad Moussa won the Dr. E. Bruce Tovee Award for outstanding contributions to education within the University of Toronto Department of Surgery. Dr. Marc Jeschke received the Lister Prize – the highest honour recognizing research in the Department of Surgery. Dr. Sender Herschorn was awarded the International Continence Society Lifetime Achievement Award. Dr. Julie Hallet received a Career Development Award from the Society for Surgery of the Alimentary Tract.

Dr. Marc Jeschke and Dr. Gollish received Sunnybrook’s Leo Stevens’ Leadership Award. Dr. Albert Yee received the Tile Award for outstanding contributions to Sunnybrook’s Department of Surgery; the Undergraduate Teaching Award went to Dr. Darlene Fenech and Dr. Shar Shahrokhi received the Dr. William Dixon Surgical Teaching Award. Dr. Calvin Law received the Rose award from the Sunnybrook Foundation for his efforts in securing philanthropic support.

Dr. Joel Finkelstein was named the Feldberg Chair in Spinal Research and Dr. Giuseppe Papia the Patricia Quigley Chair in Limb Preservation. Dr. Ahmed Kayssi received the Blair Early-Career Professorship.



University Health Network

Shaf Kehavjee,
Surgeon-in-Chief



HEADS OF DIVISIONS

Vivek Rao MD	Cardiac Surgery
Allan Okrainec MD	General Surgery
Michael Tymianski MD	Neurosurgery
Rod Davey MD (Interim)	Orthopedic Surgery
Stefan Hofer MD	Plastic Surgery
Tom Waddell MD	Thoracic Surgery
Tony Finelli MD	Urology
Thomas Forbes MD	Vascular Surgery

DIVISION OF 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. R. Weisel	Professor
Dr. T. Yau	Professor

The Division of Cardiovascular Surgery welcomed Dr. Jennifer Chung who joined the multidisciplinary aortic surgery group. The Division hosted the annual Heritable Aortic disorders symposium and the cardiac tumours conference. Dr. Tirone David received honorary fellowship to the Royal College of Surgeons of Edinburgh.

DIVISION OF GENERAL SURGERY

Dr. M. Cattral	Professor
Dr. A. Chadi	Assistant Professor
Dr. T. Cil	Assistant Professor
Dr. K. Devon	Assistant Professor
Dr. P. Dhar	Assistant Professor
Dr. A. Easson	Assistant Professor
Dr. J. Escallon	Associate Professor

Dr. S. Gallinger	Professor
Dr. A. Ghanekar	Associate Professor
Dr. D. Grant	Professor
Dr. P. Greig	Professor
Dr. T. Jackson	Associate Professor
Dr. W.L. Leong	Assistant Professor
Dr. D. McCready	Professor
Dr. I. McGilvray	Associate Professor
Dr. C. Moulton	Associate Professor
Dr. C. O'Brien	Assistant Professor
Dr. A. Okrainec	Associate Professor (Division Head)
Dr. J. Pasternak	Assistant Professor
Dr. T. Penner	Assistant Professor
Dr. F. Quereshy	Assistant Professor
Dr. M. Reedijk	Associate Professor
Dr. L.E. Rotstein	Professor
Dr. G. Sapisochin	Assistant Professor
Dr. M. Selzner	Associate Professor
Dr. E. Shlomovitz	Assistant Professor
Dr. A. Wei	Associate Professor

The Division of General Surgery at UHN had a successful year in both grant capture and publications including Dr. Michael Reedijk receiving a CIHR grant for his work on the notch signalling cascade in breast cancer. The transplant team lead by Dr. Markus Selzner performed the first kidney transplant using Ex-Vivo organ perfusion. The Division recruited two new members including Dr. Jesse Pasternak who has an interest in endocrine surgery, and Dr. Preeti Dhar who has an interest in acute care surgery and critical care. Dr. Ian McGilvray was awarded the Frank Mills Award for excellence in teaching.

DIVISION OF NEUROSURGERY

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

Dr. Zadeh was appointed as Program Medical Director for the Krembil Neuroscience Centre at Toronto Western Hospital. Taufik Valiante, Milos Popovic (Toronto Rehabilitation Institute) and team received a \$6.5 million grant from the Canada Foundation for Innovation (CFI) for the “CenteR for Advancing Neurotechnological Innovation to Application (CRANIA)”. The CRANIA project will advance work on neuromodulation therapies to stimulate specific regions of the brain involved in neurological diseases and conditions, such as epilepsy, depression, Alzheimer disease, Parkinson disease and spinal cord injury. Dr. Andres Lozano was awarded an honorary doctorate degree from the University of Sevilla, Spain, his city of birth. Dr. Charles Tator was inducted into Canada's Sports Hall of Fame in the Builder category in 2017 for his exceptional work on sports concussions and spinal cord injury treatment and research.

DIVISION OF ORTHOPEDIC SURGERY

Dr. R. Davey	Associate Professor
Dr. M. Erwin	Assistant Professor
Dr. R. Gandhi	Associate Professor
Dr. M. Kapoor	Associate Professor
Dr. J. Lau	Assistant Professor
Dr. T. Leroux	Assistant Professor
Dr. S. Lewis	Associate Professor
Dr. N.N. Mahomed	Professor (Division Head)
Dr. W. Marshall	Assistant Professor
Dr. D. Ogilvie-Harris	Professor
Dr. R. Rampersaud	Professor

Dr. K. Syed	Assistant Professor
Dr. C. Veillette	Assistant Professor
Dr. M. Zyweil	Assistant Professor

Dr. Mohit Kapoor published in the Nature Medicine (ADAM10-mediated ephrin-B2 shedding promotes myofibroblast activation and organ fibrosis) in October 2017 and Dr. Jas Chahal was a co-applicant on a CIHR grant related to managing knee osteoarthritis risk factors after ACL reconstruction. Dr. Raj Rampersaud was appointed Provincial Clinical Lead – Rapid Assessment Clinics (RAC)- Low Back Pain Pathway, HQO, Dr. Rajiv Gandhi was appointed Medical Director Surgery, Altum Health and Dr. Mike Zyweil has started a same day discharge hip and knee replacement surgery program.

DIVISION OF PLASTIC SURGERY

Dr. D. Anastakis	Professor
Dr. H. Baltzer	Assistant Professor
Dr. P. Bray	Assistant Professor
Dr. B. Graham	Assistant Professor
Dr. S. Haykal	Assistant Professor
Dr. S. Hofer	Professor (Division Head)
Dr. S. McCabe	Associate Professor
Dr. C.B. Novak	Associate Professor
Dr. A. O'Neill	Assistant Professor
Dr. H. Von Schroeder	Associate Professor
Dr. T. Zhong	Associate Professor

A UHN team of Thoracic and Head & Neck Reconstructive Surgeons staged and created a new esophagus for a young acid attack survivor from Bangladesh. The UHN Helps Fund was established through an initiative at the Division of Plastic Surgery for patients from middle to low income developing countries to travel to UHN to receive life-altering complex microsurgical reconstruction that is technologically advanced.

DIVISION OF THORACIC SURGERY

Dr. M Cypel	Associate Professor
Dr. K. Czarnaiecka	Assistant Professor
Dr. G. Darling	Professor
Dr. M. de Perrot	Associate Professor
Dr. S. Keshavjee	Professor
Dr. M. Liu	Professor
Dr. A. Pierre	Associate Professor
Dr. T. Waddell	Professor (Division Head)
Dr. K. Yasufuku	Associate Professor

Dr. Marcelo Cypel continues his track record of innovation and translation of laboratory research, launching a ground-breaking clinical trial to remove or inactivate Hepatitis C virus prior to transplantation using Ex Vivo Lung Perfusion. Dr. Kazuhiro Yasufuku has received an extremely prestigious 5 year research award for 1M over 5 years from CIHR for a project with potential to radically transform the treatment of very early stage lung cancer, transbronchial nanotechnology-mediated PhotoDynamic Therapy. Dr. Shaf Keshavjee has received the 2018 Lifetime Achievement Award, Canadian Society of Transplantation.

University Divisional Chair. We were delighted to recruit Dr Kathryn Howe as a Surgeon Scientist to the Division. Dr Lindsay received the University Vascular Division's Post Graduate Teaching award."

DIVISION OF UROLOGY

Dr. D. Elterman	Assistant Professor
Dr. A. Finelli	Associate Professor (Division Head)
Dr. N. Fleshner	Professor
Dr. R. Hamilton	Assistant Professor
Dr. M. Hassouna	Professor
Dr. M. Jewett	Professor
Dr. G. Kulkarni	Associate Professor
Dr. J. Lee	Assistant Professor
Dr. A. Matthew	Associate Professor
Dr. N. Perlis	Assistant Professor
Dr. S. Radomski	Professor
Dr. J. Trachtenberg	Professor

The division of urology has performed the most robotic uro-oncologic surgeries in Ontario with now having completed more than 1400 procedures related to kidney, testis (RPLND), bladder and prostate cancer.

DIVISION OF VASCULAR SURGERY

Dr. J. Byrne	Assistant Professor
Dr. T. Forbes	Professor
Dr. W. Johnston	Professor
Dr. T. Lindsay	Professor (Division Head)
Dr. G. Oreopoulos	Assistant Professor
Dr. G. Roche-Nagle	Associate Professor
Dr. B. Rubin	Professor
Dr. D. Wooster	Professor

Divisional academic and scholarly achievement included Dr Roche-Nagle's establishment of a pan Canadian Quality Improvement regional group for those using the SVS Vascular Quality Initiative (VQI) platform, Dr Forbes's continued leadership roles in the Journal of Vascular Surgery, Society for Vascular Surgery and



Women's College Hospital

David R. Urbach,
Surgeon-in-Chief

Division of General Surgery

Dr. T. Cil	Assistant Professor (Division Head)
Dr. K. Devon	Assistant Professor WCH
Dr. T. Ross	Associate Professor
Dr. D. Urbach	Professor

Division of Orthopaedics

Dr. J. Chahal	Assistant Professor
Dr. T. Dwyer	Assistant Professor
Dr. J. Theodoropoulos	Assistant Professor (Division Head)

Division of Plastic Surgery

Dr. B. Beber	
Dr. M.H. Brown	Associate Professor
Dr. J.L. Semple	Professor (Division Head)

Division of Urology

Dr. E. Grober	Assistant Professor
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Department News

We had an exciting and productive year in the Department of Surgery at Women's College Hospital. Our growing faculty now consists of over 60 associate staff and 11 core surgeons. We held an international search for an Orthopedic Foot and Ankle Surgeon to develop a new centralized intake program for foot and ankle procedures, who will start in July, 2019. We welcomed Dr. Yonah Krakowsky, Urologist who will develop a program in sexual medicine and surgery and serve as Medical Director for the new WCH Transition-Related Surgery program.

New Programs

In May 2018, we launched a new completely outpatient total



joint replacement surgery program - the first of its kind in Canada. With a major focus on pre-operative & post-operative management, state of the art anesthesia and surgical techniques, virtual care applications and cross-disciplinary collaboration, this program aims to reduce the dependence on in-patient beds for common major surgical procedures, improve wait times and keep patients out of hospital allowing recovery in the comfort of their homes.

In June 2018 an exciting new model of care was created for women with findings concerning for breast cancer. Through a collaboration of the Departments of Surgery, Pathology and Laboratory Medicine, Nursing and the Joint Department of Medical Imaging, we developed an Accelerated Diagnostic Pathway (ADP). This model strives to provide a seamless journey of care from diagnosis through to treatment with rapid diagnostic wait times (less than 48 hours), and more timely access to treatment and supportive care. The time from biopsy to diagnosis decreased by more than 50% with the introduction of the new ADP model.

The Transition-Related Surgery Program focuses on providing secure and prompt access to transition related surgeries. This programs evolution is a result of partnerships with Sherbourne Health Centre, Rainbow Health Ontario and the Centre for Addiction & Mental Health (CAMH) and the numerous health practitioners and community member's efforts. We are currently focusing of "top" masculinizing and feminizing chest surgery, and will start to perform "bottom" surgeries including vaginoplasty in the coming year,

Accomplishments

David Urbach was appointed a fellow of the Canadian Academy of Health Sciences and served as President of the Canadian Association of General Surgeons in 2017-18, and was an author on 21 peer-reviewed publications.

Mitch Brown was promoted to Full Professor and was the recipient of the Tovee Award for Excellence in Post Graduate Education in the Department of Surgery, University of Toronto. He authored a chapter in Plastic Surgery: 4th Edition V.5, Breast. He presented 25 lectures at 7 medical conferences including a live surgical presentation at the Southeastern Society of Plastic Surgery and Reconstructive Surgeons in Atlanta, Georgia and was Visiting Professor at Dalhousie University in Halifax, Nova Scotia.

Jas Chalal was the recipient of the Bernard Langer Surgeon Scientist Award. This prestigious honour is awarded 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.

Karen Devon was appointed to the Board of Directors, Cancer Care Ontario. She was a panelist on Bioethics for Health in a Digital Age, and Co-Director of a Surgical Ethics Course at the University of Toronto. She published 4 peer reviewed articles and presented at the Surgical Forum of the American College of Surgeons in San Diego.

Tim Dwyer published 4 peer reviewed journal articles and is a collaborator on a CHIR grant on the study of Development and feasibility testing of an intervention to manage knee OA risk factors after anterior cruciate ligament injury.

John Semple currently holds multiple distinguished appointments including the Chair of the Surgical Breast Cancer Research, Canadian Cancer Society. He was appointed an Adjunct Professor at OCAD University, and also appointed to the Board of Directors for the Assessment of Surgical Site Infections Surveillance Technology (ASSIST). This is an International working group based out of Washington University, Seattle funded by the Centre for Disease Control. He was awarded the Senior Scholar in the Graduate Faculty at OCAD University in the programs: Design for Health and Interdisciplinary Masters in Art, Media and Design. He attended 13 invited visits and holds 3 grants including a CIHR patient-orientated research (SPOR) collaboration grant.

Yonah Krakowsky published 3 peer-reviewed articles and holds 3 grants including the International Society for the Study of Women's Sexual Health. He is the

undergraduate education coordinator for Urology and Assistant Program Director for the Urology Residency Program and in collaboration started the Transition Related Surgery Rounds at WCH, he organized this year's "Surgeon and Society" Event and spoke at the Toronto East General Hospital Grand Rounds

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