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Dr. J.T. Rutka

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

Surgeons In Chief
Dr. J.G. Wright  The Hospital for Sick Children/Robert B. Salter Chair in Surgical Research
Dr. J.S. Wunder  Mount Sinai Hospital/Rubinoff-Gross Chair in Orthopaedics
Dr. L.C. Smith  St. Joseph’s Health Centre
Dr. O.D. Rotstein  St. Michael’s Hospital
Dr. R.R. Richards  Sunnybrook Health Sciences Centre
Dr. L. Tate  The Toronto East General Hospital
Dr. S. Keshavjee  University Health Network/James Wallace McCutcheon Chair in Surgery
Dr. J.L. Semple  Women’s College Hospital

University Division Chairs
Dr. C. Morshead  Anatomy
Dr. C. Calderone  Cardiac Surgery
Dr. A. Smith  General Surgery/Bernard and Ryna Langer Chair
Dr. A. Lozano  Leslie Dan Professor and Chair of Neurosurgery
Dr. B. Alman  A.J. Latner Professor and Chair of Orthopaedics
Dr. C. Forrest  Plastic Surgery [Interim Chair]
Dr. T. Waddell  F.G. Pearson/R.J. Ginsberg Chair in Thoracic Surgery
Dr. S. Herschorn  Martin Barkin Chair in Urological Research
Dr. T. Lindsay  Vascular Surgery
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n preparing this year’s Chair’s Report, I was inspired by the concept of “the journey” which all of us take in our professional careers, and by this quotation by Greg Anderson: “Focus on the journey, not the destination. Joy is found not in finishing an activity but in doing it”. As surgeons, we are all very goal-oriented, and try to close the cover of one book before we open the cover of another. This past year was characterized by the completion of our Strategic Plan: “Transforming Surgery: Beyond the Cutting Edge”. While the ink was still drying on the pages of the published version of our Strategic Plan, it felt good to have completed this document which took a better part of an academic year to do. However, I soon realized thereafter that our “journey” in the Department of Surgery was just beginning. Our plan is filled with numerous short and long-term goals, and with the hope that we will take our Department to a new destination once we have completed this 5 year journey.

The Strategic Planning Steering Committee was exceptionally busy from September through to December in separate working groups focusing on our five main strategic goals: 1) Research; 2) Education; 3) Faculty Development; 4) Best Practices; and 5) Integration. On January 27th, 2012, we held a Strategic Planning retreat at the University Club at which we heard inspiring presentations from Dean Catharine Whiteside, Dr. Robert Bell President and CEO of the University Health Network, Dr. Jay Rosenfield Vice Dean Undergraduate Medical Education, and Dr. Mark Bernstein Greg Wilkins-Barrick Chair in International Surgery. We were also very fortunate to have Deputy Minister of Health and Long Term Care, Mr Saad Rafi, as a special invited guest who spoke to us about the challenges and opportunities with the future provincial health care programs and initiatives. The retreat culminated with various break-out sessions, and collations afterwards of key themes and concepts, all of which were used to inform the final strategic plan report. This can be found at: http://surgery.utoronto.ca/about/strategic-plan.htm.

To accomplish all of our goals within the pages of this plan will definitely be a journey, and I look forward to traveling the road with all of you.

A good portion of this past year was spent upgrading our efforts in Undergraduate Medical Education (UME) in the Department of Surgery. To this end, after an exhaustive search, we were very fortunate to appoint Dr. George Christakis, Cardiac Surgery, Sunnybrook Health Sciences Centre, into the role as Director of UME. George replaced Dr. David Backstein who had served admirably in that role over the past many years. Soon after, George appointed Mr. Shibu Thomas as the Co-ordinator of UME. Together, they have worked assiduously to improve the curriculum for medical students by adjusting the content and timing of the lectures in the “crash course” for Year 3 students, and by solidifying their clinical experiences at each site. Furthermore, we have organized a “Life in Surgery” evening event for medical students so that they can learn about how to achieve work and life balance in a career in surgery. We have initiated a “Suture-tying Workshop” in which Year 1-2 medical students have an opportunity to learn the art of hand- and instrument-assisted suturing techniques instructed by some of the best in our faculty. We have offered a Student Surgical Skills Development (3SD) event in which representatives of the different Divisions meet with medical students at a dinner or lunch event to provide informal advice about careers in surgery. This year was the first that we initiated a Surgery Exploration and Discovery (SEAD) course providing medical students with an in-depth, hands-on 2 week course to enable them to learn about the different surgical specialties. Finally, I was delighted to inaugurate a “Breakfast with the Chairman” seminar series where eager medical students would join me for breakfast in an informal setting in the Banting Conference Room to hear my thoughts about the excitement of a selected career path in Surgery. All of these new initiatives and programs helped us prove to the Committee on Accreditation of Canadian Medical Schools (CACMS) and the Liaison Committee on Medical Education (LCME) in the US that we highly value the opportunities to teach and mentor medical students at the University of Toronto. You will be pleased to know that the Faculty of Medicine passed its Accreditation cycle this year with flying colours.

There were some administrative changes this past year. Neil Fleschner was appointed as the Martin Barkin Chair in Urology following Sender Herschorn who had served in this position for over 10 years. Carmine Simone was appointed as Chief of Surgery at Toronto East General Hospital following Laura Tate in this role. And, Avery Nathens was named Surgeon-in-Chief at Sunnybrook Health Sciences Centre, following on the heels of Robin Richards who had served in this position for 11 years. Finally, Oleg Safir, Orthopaedics, Mt Sinai Hospital, was appointed as the Director of the Surgical Skills Centre, replacing Helen MacRae who had served in that capacity for the past 10 years. Helen, on the other hand, jumped
immediately into the position of program director of the Colorectal Surgery fellowship program, taking over from Marcus Burnstein who had served admirably in the role for 16 years.

In this age of rapid communications, the Department of Surgery is leading the way with its monthly newsletter, ExcelSoir, which provides timely and important news to all faculty members. We have also created "e-clips", as a rapid fire communication which delivers congratulatory notes to deserving faculty members, important deadline information, and notices to all. The Surgical Spotlight remains our main method of reaching out to faculty and alumni on a quarterly basis, and I should like to thank Dr. Martin McKeansly and Alina Gaspar for the wonderful work they do in making this periodical as informative, and interesting as possible.

This year, Todd Penner was promoted to Assistant Professor; and Jack Barkin, Natalie Coburn, Jeff Fialkov, Carol-Anne Moulton, Katalin Szasz, and Homer Tien were promoted to Associate Professor. To Full Professor, I am delighted to report the successes of Helen MacRae, Sandro Rizoli, and Cari Whyne. Finally, we are indeed proud of Dimitri Anastakis, Past Chair of Plastic and Reconstructive Surgery (PRS), who was appointed to the position of Vice Dean of Continuing Education and Professional Development.

It was an extremely busy year with the following surgeons successfully undergoing and passing their Continuing Appointment Reviews as adjudicated by Dr Ori Rosstein: Darlene Fenech, General Surgery; Ralph George, General Surgery; Rebecca Gladly, General Surgery; Clement Hamani, Neurosurgery; Armando Lorenzo, Urology; Carol-Anne Moulton, General Surgery; Catherine O’Brien, General Surgery; Giuseppe Papia, Vascular Surgery; Tom Schweizer, Neurosurgery; John Theodoropoulos, Orthopaedics; Kazuhiro Yasufuku, Thoracic Surgery; Gelareh Zadeh, Neurosurgery; and Toni Zhong, PRS.

Numerous awards were once again earned by a plethora of faculty members and residents in the Department. Some to make mention of here include: Peter Ferguson, Tovee Postgraduate Prize; Georges Azzie, Tovee Undergraduate Prize; Marilyn Heng, the DR Wilson Award for Resident Teaching; Mojgan Hodaie, Bernard Langer Surgeon-Scientist Award; Teodor Granitcharov, George Armstrong-Peters Prize; Jonathan Yeung, Gallie-Bateman Award; Kristen Davidge, Shafei Fazel Award; Albert Yee and Cari Whyne, Charles Tator Mentoring Award; Benedict Rogers and Boris Krisschet, Zane Cohen Clinical Fellowship Achievement Award; and Ren-Ke Li, the Lister Prize.

We were indeed very fortunate to be partners with our fully affiliate hospitals in the announcement of several new Chairs held by Department of Surgery faculty including: Mark Bernstein, Neurosurgery, Greg Wilkins-Barrick Chair in International Surgery at UHN; Robert Nam, Urology, Ajmera Family Chair in Urologic Oncology at Sunnybrook; Robert Magissano, Vascular Surgery, Inaugural Maggisiiano Chairholder at Sunnybrook; Homer Tien, General Surgery, Major Sir Frederick Banting Term Chair in Military Trauma Research, Sunnybrook; and Tom Waddell, Thoracic Surgery, Richard and Heather Thomson Chair in Thoracic Translational Research at UHN.

Additional notable awards include election to the Canadian Academy of Health Sciences for Ben Alman and Robin McLeod; the William K Lindsay Faculty teaching award to Oleh Antonyschyn; the 2012 American Urological Association Foundation Distinguished Mentor Award to Darius Bagli; the 2012 Excellence in Public Relations Award to Bob Bell; the Bernard Goldman Award to George Christakis; the Ontario Genomics Institute for Societal Impact of Genomics Prize to Abdallah Daar; the Alan R Hudson in Neurosurgery to Peter Dirks; the International Neuropsychology Society Lifetime Achievement Award to Maureen Dennis; the CPSO Council Award to Fred Gentili; the Distinguished Service Award from the American Hepato-Pancreato-Biliary Association to Paul Greg; Excellence in Postgraduate Medical Education to Robert Mustard; Orthopaedic Research Society New Investigator Award to Diane Nam; PAIRO Los Ross Resident Advocate Award to Gelareh Zadeh; and the Galile Lecturer Award by the RCPS to Charles Tator.

While far too numerous to mention in this report, our faculty have continued to distinguish themselves with the receipt of grants from many national peer-reviewed granting agencies including the CIHR, Physician Services Incorporation, Colon Cancer Canada, Cystic Fibrosis Canada, Canadian Cancer Society Research Institute, Heart and Stroke Foundation, and NSERC. In total, our faculty received $38 Million in research funding this past year. In addition, two of our faculty distinguished themselves with publications in Nature, arguably the world’s most authoritative and high impact journal. Michael Taylor, Neurosurgery, described subgroup-specific structural variation across 1,000 medulloblastoma genomes in Nature 488: 49-56, 2012. And Michael Tymianski, Neurosurgery, reported on the treatment of stroke with a PSD-95 inhibitor in the primate brain in Nature 483: 213-217, 2012.

Thanks to the ongoing efforts of our Senior Development Officer, Darina Landa, we have continued to make excellent progress with our Advancement Program. This past year, we received $2.7 Million in philanthropic and industry related sponsorship.

New faculty recruits included: Marcelo Cypel, Thoracic Surgery, UHN; Anand Govindarajan, General Surgery, Mt Sinai; Paul Karanicolas, General Surgery, Sunnybrook; Martin Koyle, Urology, Sick Kids; Girish Kulkarni, Urology, UHN; Jason Lee, Urology, St Michael’s; Paul Kuszky, Orthopaedics, Mt Sinai; Mark Wheatcroft, Vascular Surgery, St Michael’s; and Tony Moloney, Vascular Surgery, St Michael’s.

Sadly, we lost several revered and trusted colleagues in the Department of Surgery who passed away this past year: Leith Douglas, PRS; Ab Guha, Neurosurgery; Ara Keresteci, Urology; Tait McPhedran, General Surgery; and Tom Morley, Neurosurgery.

For the upcoming year, I have identified the following goals and objectives to help us along our journey. We will be working diligently to ensure that all residency training programs in the Department pass the Royal College Accreditation cycle; we will aim to surpass
last year’s record of grant capture and peer reviewed publications; we will continue to encourage all eligible faculty members to be promoted at the Decanal Committee; we will use aggressive advancement strategies to fund important Departmental initiatives; and we will implement the short term, year one goals of the Strategic Plan. Finally, when I write next year’s Chair Report, it will be from a different office, as the Department of Surgery will be moving to a new site after almost 80 years of occupancy at the Banting Institute. More to follow along this journey together.

James T Rutka, MD, PhD, FRCSC
RS McLaughlin Professor and Chair
As surgeons, we remove diseased parts of the body or perform operations to improve the function of select organs. The field of regenerative medicine focuses on how we can harness the inherent ability of cells to rebuild body parts or improve the function of degenerating organs. Knowledge from regenerative medicine thus has tremendous potential to improve outcomes in surgical patients. This includes using cells in tissue engineering to build new parts outside of the body and then surgically implant them, as well as harnessing progenitor or stem cells to repair or rebuild tissue in vivo. Members of our faculty have made tremendous inroads into making regenerative medicine a clinical reality, and we learned of their work at this year’s Gallie Day, whose theme was “Building Better Bodies: Regeneration and Tissue Engineering and Surgery”.

The day included a symposium in which several of our faculty members reported on advances in diverse areas in regenerative medicine. Participants included Abdallah Daar (Chief, Science & Ethics Officer, Grand Challenges Canada, Professor of Public Health Sciences and Surgery, U of T), who spoke on how regenerative medicine can improve health internationally, and brought up some ethical issues related to the field. Rita Kandel (Chief, Dept of Pathology & Laboratory Medicine, Mount Sinai Hospital; Professor, Laboratory Medicine and Pathobiology, cross appointed to Surgery, U of T), spoke on the work of her team developing a biologic joint replacement, which could be a longer lasting solution to joint degeneration than conventional total joint replacements. Michael Sefton (University Professor, IBBME, Michael E. Charles Professor, Dept of Chemical Engineering & Applied Chemistry, U of T), spoke on rebuilding blood vessels and the importance of vascularity in regenerating multiple organs in the body. Thomas Waddell (Pearson-Ginsberg Chair, Division of Thoracic Surgery, Thomson Family Chair in Translational Research, Dept of Surgery, U of T), spoke on the use of multiple approaches in regenerative medicine to improve outcome in a variety of lung and respiratory disease. They demonstrated an impressive depth and breadth of work in this field, and gave a fascinating glimpse into how their work will revolutionize surgical care in the near future.

Pr Philippe Menasché, (Unité de Chirurgie Cardiaque, Hôpital Européen Georges Pompidou, Paris, France) was this year’s GORDON MURRAY LECTURER. His talk was entitled, “Stem cells for the treatment of heart failure: What is still missing for a prime time use?”. He outlined the journey that he and others took to study the role of stem cells in cardiac regeneration, and develop their use in the clinic. In addition to his exciting talk and the impact of his work, he gave a touching thank you for his invitation, and for all the help Canada provided to France historically, especially in the Second World War.

There were 10 platform presentations and 46 poster presentations from trainees working with our faculty members. The Gallie Bateman Awards [for Surgeon Scientist Program participants] and the McMurrich Awards [for any trainee working with a member of the faculty of surgery] were judged for both platform presentations and poster presentations. The multiplicity of the topics and researchers highlighted the diverse, yet high quality, research being conducted in our Department.

The Gallie Bateman Award for best work by a trainee in the Surgeon Scientist Program 1st prize went to oral presentation by Jonathan Yeung: “Ex vivo lung perfusion for evaluation and repair of donor lungs for transplantation” [Supervisor: Shaf Keshavjee]; 2nd prize tie went to Lakhbir Sandhu: “Separating the wheat from the chaff: Empirically identifying the characteristics of high quality non-randomized studies” (co-authors: George Tomlinson, Erin Kennedy, Alice Wei, Nancy Baxter, [supervisor: David Urbach]); for her poster presentation; Francis Zih: “Polo-like kinase 4 enhances cancer cell motility and invasion” [Supervisor: Carol Swallow], for his oral presentation; 3rd prize oral presentation award went to Nathan Perlis: “Radical cystectomy with perioperative chemotherapy vs. selective bladder preservation with radiation therapy for muscle-invasive bladder cancer: A decision analysis” (Supervisor: Antonio Finelli).

1st prize tie for the McMurrich Award [for research by a trainee not in the Surgeon Scientist Program] was awarded to David Shih [supervisor: Michael D. Taylor]: “Genomic copy-number profiling identifies actionable targets in medulloblastoma subgroups”; and Shabana Amanda Ali [Alvin Lin, Heather Whetstone, [supervisor: Benjamin Alman]): “Identifying hedgehog signaling target genes in osteoarthritis using an optimized method for Rna extraction from human cartilage”. 2nd prize three way tie: Julia Izzaliti [supervisor: Michael Reedijk]: “TRB3 regulates MAPK- and SMAD-dependant notch activation in breast cancer”; Wenxi Gao [supervisors: Mingyao Liu, Shaf Keshavjee]: “Alpha 1-antitrypsin improves lung function in a rat lung transplantation model”; Elaine Mau [Yufa Wang, David Wright, David C.
Funding

Vasu Morshead, Keshavjee, Jeschke, Sevan Anna

Grant

this, CCSRI, funding
meetings.

Evidence

Publications, who and excellence
SSP (publications outstanding
Grantcharov Program
to glioblastoma multiforme (gbm) by depleting
hexokinase II: Potentiating the effect of standard
of chemotherapy treatment of peritoneal
carcinomatosis; Alenoush Vartanian
and chemotherapy strategy for perinatal sub cortical remyelination;

Mortality in lung cancer: does practice make
perfect?; Crystal Ruff

Waddell, James Rutka, Richard Rutka, Michael Sharpe, Benjamin Liang

Legasto, Christopher Legasto, Jian Wang, Liang Zhang, [supervisor:
Michael Fehlings]]: “Stem cell based transplantation
strategies for perinatal sub cortical remyelination”; Kathryn Ottolino-Perry
[Nan Tang, [supervisor: Judith
Andrea McCart]: “Combined oncolytic virotherapy
and chemotherapy treatment of peritoneal
carcinomatosis”; Alenoush Vartanian [Abhijit Guha,
supervisor: Gelareh Zadeh]): “Metabolic modulation
of glioblastoma multiforme (gbm) by depleting
hexokinase II: Potentiating the effect of standard
therapies”.

Faculty research awards went to Mojgan Hodaie
[Bernard Langer Surgeon Scientist Award, awarded to
an outstanding graduate of the Surgeon Scientist Program in the Department, who shows the greatest
promise for a career in academic surgery], Teodore
Grantcharov [George-Armstrong Peters Prize,
awarded to a young investigator who has shown
outstanding productivity during his initial period as
an independent investigator as evidenced by research
publications in peer reviewed journals, grants held,
and students trained], Albert Yee and Cari Whyne
[Charles Tator Surgeon Scientist Mentoring Award,
to recognize individual supervising participants in the
SSP who emulate Professor Tator’s qualities, namely
excellence in research, commitment to SSP mentoring
and dedication to promotion of Surgeon-Scientists] and
Ren-Ke Li [Lister Prize, awarded to an investigator
who has shown outstanding and continuing productivity
of international stature as evidenced by research
publications, grants held, students trained and other
evidence of stature of the work produced].

Our high impact journal publications continue to
grow by numbers. Our faculty has given research
presentations throughout the globe and participated
in over a hundred national and international research
meetings. The increased competitiveness of research
funding from the Canadian Institutes of Health Research,
CCSRI, and other funding agencies continues. Despite
this, our department members continue to receive new
grant at an increasingly phenomenal pace from these
agencies. Benjamin Alman, Nancy Baxter, Gregory
Borschel, Christopher Calderone, Sean Cleary, Timothy
Daniels, Karen Davis, Michael Fehlings, Geoff Fernie,
Anna Gagliardi, Steven Gallinger, Teodore Grantcharov,
Sevan Hopyan, Andrew Howard, Keith Jarvi, Marc
Jeschke, András Kapus, Paul Karanicolos, Shaf
Keshavjee, Laurence Klotz, Wolfgang Kuebler, Wey Liang
Leong, Ren-Ke Li, Mingyao Liu, Andres Lozano, Cindi
Morshead, Avery Nathens, Sandro Rizoli, James Rutka,
Emil Schemitsch, Hong-Shuo Sun, Michael D. Taylor,
Vasu Venkateswaran, Cari Whyne, Thomas Waddell, and
Toni Zhong, were among the great number of faculty
who received new grants this year. Our total research
funding continues to exceed that of even many of the
Universities in Canada, this year was over $50,000,000.

We continue to train residents at the graduate level in
research. We returned to our roots by renaming the
program that trains our residents the Surgeon Scientist
Training Program, its original name. We have over thirty
residents participating this year. 94% of our Surgeon
Scientist Training Program trainees were successful in
receiving full or partial salary support from external
granting agencies. Johnson & Johnson Medical Products
funding support for the Surgeon Scientist Program
provided funding to 5 trainees for 2011-2012, who were
Ryan Alkins, Bheshema Ravi, Sunjay Sharma, Megha
Suri and Francis Zih.

The Departmental Research Committee continues
its strong work on expanding the breadth of research
activities in the Department, establishing links to
emerging research areas, improving the links with the
scientists in the Department, developing standardized
evaluations for faculty, and optimizing the strengths of
Gallie Day and research educational activities. A second
scientist retreat was organized by András Kapus and
Val Cabral on November 23, 2011. Steven Gallinger,
Andrew Howard, and Thomas Waddell worked on the
White Paper to be included in the Strategic Plan for the
Department. This White Paper as well as the Scientist
White Paper worked on by András Kapus from the
Scientist Retreat, were used as starting points in the
Departmental Strategic Planning Sessions.

Research will always play a leading role in our
department and we have made astonishing
accomplishments in the past year. There is no doubt
in the upcoming years our research activities will
continue to expand, with new avenues of investigation
being developed, and improvements in our research
infrastructure to increase the breadth and depth of our
work, ultimately improving the outcome for our patients.

Special thanks to Val Cabral for her co-ordination of all
aspects of the Departmental research activities.
Postgraduate Education
Ron Levine, Director

The Department of Surgery at the Postgraduate level is the largest in Canada with 267 residents and 216 clinical fellows. There have been many accomplishments and successes in the 2011-2012 academic year.

There are 11 surgical programs: 7 CaRMS entry and 4 subspecialty programs after general surgery, as vascular surgery has now become a CaRMS entry program. 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.

There have been some changes with the program directors this year. Dr. Marcus Burnstein from Colorectal Surgery and Dr. Gail Darling from Thoracic Surgery have stepped down and have been replaced by Dr. Helen MacRae and Dr. Andrew Pierre respectively. These new program directors will continue to maintain their respective programs at a very high level and will also bring new initiatives to their specialties.

Dr. Dimitri Anastakis took on a position of Vice Dean of Continuing Education and Professional Development (CEPD) and because of this stepped down as the chairman of Plastic and Reconstructive Surgery. Dr. Christopher Forrest has been the acting interim chairman of Plastic and Reconstructive Surgery and has done a superb job with a nearly seamless transition.

Dr. Jim Rutka has finished his first year as Chair of the Department of Surgery. He has done an excellent job and has brought new initiatives to the department; one of the major ones being a new strategic plan for the department for the next five years.

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

The first two years of training in surgery is known as the Fundamentals of Surgery. Besides attending specialty-specific academic endeavors, the Fundamentals of Surgery residents attend the Principles of Surgery (POS) lectures to prepare them for the POS Royal College Exam. These weekly seminars are coordinated by Dr. Robert Mustard. Dr. Mustard also organizes practice exams. The high success rate of our students at the POS Exam is a testament to all of Dr. Mustard’s hard work.

Another important part of the postgraduate curriculum in all specialties is the Surgical Skills Lab at the Mount Sinai Hospital. All PGY1 residents attend a one year surgical skills courses where they learn fundamental surgical skills. Each of the surgical specialties also run their own courses where surgical skills specific to their specialty are taught. Lisa Satterthwaite is the Manager of this unique skills lab. Dr. Oleg Safr has been named the new head of the Surgical Skills Lab and he is going to bring many new improvements to the Surgical Skills Lab.

There are a number of academic days to enhance the educational experience of the surgical resident. In July the Core Surgery residents attend “The Surgeon in Society” where medical legal issues are discussed. This is run by Dr. John Bohnen and Dr. Ron Levine. Dr. John Murnaghan runs “Residents as Teachers” for the PGY1 and PGY3 residents. This is a workshop to teach our residents to be better teachers. There is an orientation day organized by Dr. Ron Levine for all of our new first year residents. All of our first year residents attend the ATLS course coordinated by Dr. Jameel Ali at St. Michael’s Hospital.

Case logging on POWER is now mandatory for all surgical residents. The Program Directors can monitor the operating experience of the learner at each hospital and can compare the experience from one hospital to another using the data from POWER case logging.

PGCoreEd is a series of interactive modules based on the CanMEDS Roles. Each module takes 4 to 5 hours to complete and there is an exam at the end of each module. The results of the exams are provided to the resident, Program Director and Director of Postgraduate Education. Successful completion of 8 modules is required for all residents finishing their PGY2 year.

The University of Toronto, the Royal College of Physicians and Surgeons and the Ministry of Health have all mandated an increased community experience for our residents. This mandate is called Distributed Medical Education. To meet this mandate the Department of Surgery has increased the number of residents going to community hospitals. At the present time residents are going regularly to St. Joseph’s Health Centre, Toronto East General Hospital, North York General Hospital, Humber River Regional Hospital, William Osler Health Centre, Credit Valley Hospital, Trillium Health Centre and South Lake. The feedback from residents rotating through these community hospitals has been excellent.

The Competency Based Curriculum in Orthopaedic Surgery continued for the academic year 2011-2012.
Three new residents were accepted into the program and thus far it seems to be extremely successful due to the hard work of the Division of Orthopaedic Surgery. Educators from around the world are awaiting the results of this program.

There was a retreat for new faculty in June that was coordinated by Dr. David Latter. It was highly successful and the plan is to continue this retreat. The Department of Surgery will be alternating it on a yearly basis with a faculty development day on how to be a better teacher.

The fellowship programs in the Department of Surgery are extremely important. Not only do the fellows learn important skills that they take back to their countries of origin, but they all bring their experiences from around the world to our residents and medical students. At the present time we have 216 fellows in the Department of Surgery. The fellowship committee under the leadership of Dr. David Latter has moved to formalize all the fellowships in the Department of Surgery with definitive goals and objectives and uniformity of salaries for each fellowship. In an effort to improve the social environment for our clinical fellows and their families the Department hosts an annual BBQ in August specifically inviting spouses and children so that the families can get to know each other.

The Women in Surgery group is now under the leadership of Dr. Carol-Anne Moulton. The group met twice this year. This group discusses issues of finding the balance of family life with a surgical career. It is well attended by medical students, residents and faculty.

Dr. Peter Ferguson was awarded the 2012 Bruce Tovee Award for Postgraduate Teaching. The 2012 D.R. Wilson award for Resident Teaching of medical students was won by Dr. Marilyn Heng.

The running of the Department of Surgery with 267 residents, 216 fellows and 265 faculty members is a huge endeavor. This is masterfully done by Tess Weber and Robert Gardin.
2011-12 has been typical of a restructuring year for undergraduate education. After eight years of hard work marked by substantial and successful changes to the program, David Backstein stepped down as Director of Undergraduate Education. Also, after more than 25 years of exceptional service, Carmela Calorendi, undergraduate coordinator, retired. Shibu Thomas took over from Carmela and I assumed David’s role as director in September 2011.

A mini retreat for undergraduate education headed by Drs. Rutka and Latter took place in late September 2011. Information provided by the student questionnaire in preparation for the medical school accreditation in May 2012, was helpful in creating new ideas as well as promoting the goals and objectives for education in surgery. Recommendations were also made at the mini retreat for changes in the crash course as well as the promotion of new leaders in undergraduate education to improve communication and teaching of clinical clerks. The conclusions from the mini retreat were that undergraduate surgical education will continue to be valued as an important contributor to the Department of Surgery and will be recognized through promotions, practice plan points as well as financial reimbursement. The strength of this support for undergraduate education was further reinforced in the Department’s Strategic Plan meeting in Jan 2012.

‘Crash Course in Surgery’ week: Taking into account general feedback from students, effective March 2012, the Crash Course hours were reduced (from 8:00 a.m. - 6:00 p.m. to 9:00 a.m. - 5:00 p.m.), thereby slashing 10 hours off the week-long course while still retaining all critical content. Furthermore, starting September 2012, in order to accommodate and make allowances for students coming from the Mississauga Academy of Medicine, the crash course hours will be changed to 10:00 a.m. - 6:00 p.m.

The method of teaching in the crash course has also changed. The didactic form of lectures was gradually replaced over the year with ‘case-based clinical questions’ and ‘interactive sessions.’ Starting November 2011, selected crash course sessions have been video-recorded and uploaded to the portal for 24x7 student access. A new learning module called ‘Introduction to the NBME examination,’ was included in the crash course schedule. In this session, students are taken through a sample NBME examination over a period of three hours in order to prepare them for their end-of-

rotation written examination. This was introduced during the first week to allow the students to familiarize themselves to the types of clinical scenarios they may encounter while on their clinical sub-rotations. Students are being provided with an NBME study book as well.

Clinical sub-rotations: During this academic year, with the help and support of each hospital-based academy, we have instituted a formal, standardized communique that goes to each preceptor, just before a clinical clerk is to come to their service. The letter details the roles and responsibilities of the preceptor as well as providing relevant information, including a picture, of the clerk. In addition to this, monitoring of each clerk’s T-Res progress is done at the Undergraduate Education office. If a lapse or lack of progress is observed, actions are instituted to ensure that the student is offered the opportunity to achieve these mandatory experiences. As a result, we are happy to report 100% compliance in the completion of T-Res requirements over this past year.

Organizational changes: The Undergraduate Education Committee was expanded by 75% in 2011-12 in order to allow for more site representation. The Committee also created a larger committee for undergraduate education known as the Surgical Leaders of Undergraduate Education (SLUE). Each surgical division has appointed a divisional director for undergraduate education who will collaborate with other SLUEs in their division. There is now a SLUE from every division at every hospital. In this way there will be a facilitator for undergraduate education representing every division at every hospital site. These committed and enthusiastic surgeon/educators will facilitate every clerk’s sub-rotation. The SLUEs will also be compiling and completing a handbook for their specialty which will be site non-specific and will have all the information necessary for a clerk’s sub-rotation on their service. Furthermore, these handbooks will contain the basic objectives and requirements of for a clerk as well as essential information that any physician should know. The SLUEs will be also responsible for several other important initiatives such as review and revision of educational objectives for every surgical specialty, continuing development of the undergraduate surgical curriculum, etc.

Resident Leaders of Undergraduate Education: While conducting a review of surgical undergraduate education, it quickly became apparent that a great majority of the teaching that occurs is performed by surgical residents. It is also clear that there exists in this
group, a large number of exceptionally good teachers who have not been effectively used for student teaching. For this reason, and in conjunction with the Director, Postgraduate Education, an attempt has been made to increase and enhance the involvement of residents in their teaching roles. Clearly resident interaction with the clerk plays a vital role in the success of a clerk’s educational experience. With the help of the Director, Postgraduate Education and the Program Directors, we are in the process of identifying a core cadre of committed and enthusiastic teacher residents that will form the ‘Resident Leaders in Undergraduate Education.’ This group will be analogous to the SLUE. Their responsibilities will include, formalizing a handbook on how to teach clerks as well as taking responsibility for education of their resident colleagues in the methodology and organizational aspects of teaching clerks.

Objectives for 2012/13: The Undergraduate Education office has had multiple meetings with leaders, surgical site leads, SLUEs and potential surgical teaching faculty at the Mississauga Academy of Medicine (MAM). We have been extremely encouraged by the very positive response and sense of commitment from the surgeons at both hospital sites at MAM. We expect the rotations due to commence in September 2012 to be very highly rated by the students.

We hope to see Resident Leaders of Undergraduate Education group formalized and evolve in this year. It is expected that they will play a major role during the Crash Course week as well as at site specific teaching sessions.
Continuing Education and Professional Development

Terry Axelrod Director and Chair, and Professional Development Committee

OVERALL CEPD GOALS

- Promote best practices in continuing education and professional development (including Faculty Development, CHE Professional Development)
- Foster scholarship and research in continuing education
- Broaden the scope and inclusiveness of continuing education (including international, interprofessional)
- Reinforce infrastructure and funding base (including COI, industry relations)

2011-12 ACTIVITIES

- 27 CE events run through the CEPD office, either fully or partially with accreditation only
- 23 live meetings, 3 faculty development, 1 research-based
- Superb success with enrollment in the hundreds for several courses, such as the Update in General Surgery 2012, Urology Update 2011, etc.
- Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CEPD jurisdiction

OBJECTIVES FOR 2012-13

- Encourage all Divisions to run or accredit courses through CEPD office.
- Catalogue the National and International CE that is done outside of the CEPD office
- Improve the support provided through the Department of Surgery for CE events
- Encourage the development of more Web based programmes.
The Surgical Alumni Association steering committee members are:
Dr. Andrew Bruce, Dr. Bernard Goldman, Dr. Tirone David, Dr. Griff Pearson, Dr. Hamilton Hall, Dr. Jacob Langer, Dr. James Waddell, Dr. Joseph Schatzker, Dr. Richard Reznick, Dr. Dr. Charles Tator, Dr. Wayne Johnston, Dr. Zane Cohen, Dr. Dimitri Anastakis, Dr. Bernard Langer, Dr. John Wedge

In 2012 the Association participated in and contributed to the formation of the Strategic Plan for the department of Surgery that was led by the Department Chairman, Dr. James Rutka.

The Surgical Alumni Database has been integrated with the Alumni Data base of the Faculty of Medicine.

In order to better understand the needs of our surgical alumni, 2012 saw the preparation of a comprehensive questionnaire that was sent to all alumni on our updated data base in early 2013.

We are currently reviewing these responses and will formally present the finding to the Chairman in May. Based on these responses we will direct the efforts of the steering committee to meeting these needs and expectations.

As always, your Surgical Alumni Association is, once again, prepared to provide strong support to the Department and its Chair, Dr. James Rutka.
Office of International Surgery
Andrew Howard, Director

OVERVIEW
The Office of International Surgery is founded on the belief that improving access to surgical care in low income countries has a great potential to reduce the global burden of disease. The role of a University Department of Surgery within the global health field should be a scholarly role, emphasizing education and research. Provision of clinical care supports these activities within some of our projects.

ONGOING PROJECTS

Ptolemy Library Project
Through a partnership with the University of Toronto Libraries, the Office of International Surgery continues to provide free full text access to the University of Toronto Library to surgeons and surgical trainees in low income countries. Our librarians, Sandra Kendall at Sidney Liswood Library, and Warren Holder and Sian Mickle at Robarts, have trained clinicians and librarians in Ethiopia and the scope of the project will be expanded to cover the needs of the Toronto Addis Ababa Academic Collaboration (TAAAC).

Surgery in Africa Reviews
We continue to publish narrative reviews on a broad range of surgical topics focusing on clinically relevant aspects of surgery in resource constrained settings. Contact andrew.howard@sickkids.ca if you are interested in writing a review. Reviews, dating back to 2005, are online at www.ptolemy.ca/members. A plan for the coming year is to put on a series on surgical critical care and trauma. The College of Surgeons of East, Central, and Southern Africa now uses our reviews as a mandatory component of their residency curriculum.

Bethune Round Table on International Surgery
This annual Canadian academic meeting is one of the first to focus on surgical aspects of global health. In 2012, the University of Toronto hosted a successful meeting with 150 registrants on May 25 to 27th. The University of Toronto has hosted 8 of the 13 Bethune Roundtable meetings which have become internationally recognized. A unique aspect of this meeting is the large number of presenters who come from low income countries thanks to scholarship money raised. This year we hosted 13 scholarship recipients.

Toronto Addis Ababa Academic Collaboration
Many departments at U of T are linking with AAU to strengthen the teaching and academic collaboration at both institutions. CIDA is currently reviewing the project for future substantial funding.

Global Health Education Institute
The department of surgery is a participant, in conjunction with anaesthesia and obstetrics, in teaching residents from across U of T who are taking the Global Health Education Institute course directed by Dr. Barry Pakes, and emergentologist from Sunnybrook. A skills lab sessions has been added to the 2011 course, dates are October 20th through October 22, 2011.

Prakash Foundation LINCS Scholarships
The Prakash Foundation Low Income Country Surgical (LINCS) Scholarships allow trainee surgeons to pursue fellowships or portions of a residency at University of Toronto. Scholarships will be offered beginning in 2013 and initially up to $70,000 per year. Applicants will be selected based on academic potential in the home country upon return and acceptance by a surgeon or division in Toronto. Contact andrew.howard@sickkids.ca for more information.

11 2011 Annual Holiday Party.
The Division continues to meet the diverse educational needs of students from many programs including Medicine, Residents, Dentistry, Physical Therapy, Occupational Therapy, Speech and Language Pathology, Pharmacy, Physicians Assistant Program, Biomedical Communications, Physical and Health Education, and Arts & Science. Our current faculty is following in the tradition of developing innovative approaches to teaching and this year saw the launch of an online Anatomy course that was developed in collaboration with the Department of Physiology.

Faculty research accomplishments are equally impressive. Despite the increased competitiveness of research funding, the Division continues to achieve awards, funding and accolades in support of their research endeavours. Two members of the Division filed patents related to their innovative work in neural regeneration (P Koeberle - Novel Peptides and methods and uses thereof for preventing retinal disorders; CM Morshead, MS Shoichet and 4 others - Methods and devices for local delivery of an agent to the brain).

PROMOTIONS
Dr. Paulo Koeberle was awarded tenure and was promoted to Associate Professor.

RESEARCH GRANTS funded in 2011-2012 academic year


Molecular interaction that modulate P13 Kinase and MAP Kinase pathways during Apoptosis. Koeberle PD. NSERC Discovery Grant. [$130,000 2012-2017].

Bioengineered cell delivery systems. Shoichet MS, Morshead CM, Tator CH, van der Kooy D. NSERC/CIHR Collaborative Health Research Program. [$658,000 2011-2014].

Repairing the injured spinal cord. Fehlings MG, Morshead CM, van der Kooy D, Shoichet MS, Nagy A. Krembil Foundation Research Grant. [$1,500,000 2011-2014].


GRADUATE STUDENTS & AWARDS

Congratulations to Ms. Christine Bae who received her MSc under the supervision of Hong Sun.

Ms. Nadia Sachewsky [PhD candidate – supervised by Cindi Morshead] was the recipient of the CIHR-TPRM scholarship. Nadia was also a finalist for the Laidlaw Manuscript Competition at Scientific Research Day in IMS.

Mr. Dave Piccin [PhD candidate – supervised by Cindi Morshead] the Recipient of Eureka’s 4th Annual International Certificate Program award (2012). Dave had the opportunity to travel to Italy and participate in this international training program in translational medicine and career mentoring designed for young "high potential" professionals.

Mr. Robert Babona-Pilipos [PhD candidate – supervised by Cindi Morshead] was the recipient of the NSERC-CREATE CARE studentship.

Faculty welcomed many new and award winning graduate students to our Division:

Mr. Anton Semechko and Mr. Zhi (James) Li - supervised by Anne Agur

Ms. Kristina Wakimoto (supervised by Anne Agur). Kristina is the recipient of a SIRF grant from Humber College [$7,032] and a grant from the Opportunities to Innovate, Higher Education Quality Council of Ontario. 2012-13 ($8,323) for “The effectiveness of the anatomy glove learning system in the training of massage therapy students” (2012-13).
Ms. Megan Lysko and Mr. Philip Donofrio - co-supervised by Anne Agur and Paulo Koeberle
Ms. Parvati Dadwal - supervised by Cindi Morshead. Parvati received an IMS entrance scholarship.
Mr. Andrew Chow - supervised by Cindi Morshead. Andrew was awarded an Ontario Graduate Scholarship and an IMS entrance scholarship.

FACULTY HONOURS/AWARDS/POSITIONS HELD
Anne Agur was appointed to the Division of Physiatry, Department of Medicine, Faculty of Medicine at the University of Toronto.
Cindi Morshead was appointed as Graduate Coordinator in the Institute of Medical Science.
Anne Agur was appointed President of the American Association of Clinical Anatomists.
Anne Agur received the Department of Occupational Science and Occupational Therapy Excellence in Teaching Award in recognition of her sustained teaching excellence.

Mike Wiley was awarded the Harry Whittaker Memorial Teaching Award in the Faculty of Medicine in 2012. The award is decided upon annually by the students of the first year medical class and awarded to a lecturer, demonstrator or tutor who gave encouragement and displayed genuine concern for student well-being and, through personal commitment to quality teaching, provided practical and clear insights in the basic sciences during the first year of the undergraduate medical program.

Ian Taylor was the recipient of the Dr. E. Mary Hollington Pre-Clinical Teaching Award. The Dr. Mary Hollington Excellence in Pre-clinical Teaching Award is presented to a teacher who has demonstrated excellence in the preclinical undergraduate medical education curriculum as selected by 4th year students.
Hong Sun received the “Outstanding Professional Alumni Award” from Sun Yet-Sen Univ ZhongShan Med School.
Hong Sun was the Guest Editor for Acta Pharmacologica Sinica on Special Topic of Stroke.
The Division of Cardiac Surgery enjoys a reputation for excellence in terms of clinical care and research with one of the largest combined clinical volumes in North America. The Division has made strong advances in the development of new surgical strategies including complex hybrid aortic procedures, trans-catheter aortic valve replacement, and hybrid management for neonatal single ventricle palliation. Our basic science, translational, and clinical research publications remain strong with a large proportion of the staff maintaining peer-reviewed funding for their research agendas.

The Division of Cardiac Surgery residency training program continues to attract top candidates from across Canada under the guidance of our Program Director, Dr. Gideon Cohen. We also developed the post of Fellowship Director with Dr. Stephanie Brister to improve the quality of our clinical fellowships across our four constituent hospitals.

The Division of Cardiac Surgery has led a broad multidisciplinary initiative to create a Cardiovascular Data Management Center (CVDMC) to develop a linkage-rich aggregation of databases for every patient with cardiovascular disease. The CVDMC will create a central database housed at the Hospital for Sick Children for quality improvement and research purposes for all members of the University of Toronto community of clinicians and researchers dedicated to cardiovascular disease. The data will be managed by a team of statistical and publication support personnel with the objective of providing quality improvement data to help improve care of our patients and to increase academic productivity by eliminating barriers to conducting clinical and translational research. The CVDMC has been generously funded by the Heart & Stroke Richard Lewar Centre of Excellence in Cardiovascular Research. Operational funds are also garnered through provision of statistical consulting work by the CVDMC team.

Under the leadership of Mark Peterson, Viv Rao, Andrew Dueck (Vascular Surgery), and Tim Bradley (Cardiology) the Toronto Aortic Collaborative (TAC) was formed. The purpose of the TAC is to establish a working group of specialists in Toronto dedicated to clinical care and research focused on aortic diseases. The goals of the TAC are to improve on the quality of care delivered to patients with complex aortic pathology, to foster collaboration between University of Toronto hospitals, and to promote research and education in the area of aortic diseases. The TAC hosted a lecture by John Ikonomidis, a world-renowned expert in surgical management of aortic pathology.

EVENTS

The Division of Cardiac Surgery held a Biannual Retreat in November 2011. A dominant theme was integration of clinical activities and data collection.

The inaugural Annual Cardiac Fellowship Dinner was held for the Cardiac Surgery Fellows, hosted by the Division’s Fellowship Director, Dr. Stephanie Brister. The dinner is part of an ongoing effort to forge closer links between Cardiac Surgery Fellows across the University of Toronto.

The 16th annual Terence Donnelly Cardiac Residents Research Day was held on April 21, 2012 and was attended by Cardiac Surgical Residents across Canada. This event is an annual highlight for aspiring surgeon-scientists among the Canadian residency programs and is the generously supported by Mr. Terence Donnelly and organized by Dr. Lee Errett. The event was honored with a presentation by Nimesh Desai on contemporary management of aortic arch aneurysms. The program was also interspersed with presentations by members of the University of Toronto Division of Cardiac Surgery including Gideon Cohen, George Christakis, Chris Feindel, Subodh Verma, Steve Femes, and Mark Peterson.

RECRUITMENT

Ed Hickey joined the Division starting in July 2012 as a staff surgeon at the Hospital for Sick Children. Dr. Hickey served as the Kirklin/Ashburn Fellow in the Congenital Heart Surgeons Society Data Center during his residency and completed a clinical fellowship at the Hospital for Sick Children.

PROMOTIONS/APPOINTMENTS (alphabetical)

George Christakis was appointed Director of Undergraduate Medical Education for Surgery at the University of Toronto.

Ed Hickey was appointed as the Director of Undergraduate Education for the Division of Cardiac Surgery at the University of Toronto.

Vivek Rao was appointed as Head of the Division of Cardiac Surgery at University Health Network. Dr. Rao succeeds Tirone David who led the Division to international prominence as a world-recognized center for innovation in cardiac surgical techniques and research.
FACULTY HONOURS/AWARDS (alphabetical)

Staff Teaching Awards

George Christakis was the recipient of the Bernard Goldman Award for Excellence in Cardiac Surgery Teaching.

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

Ren-Ke Li was honored as the 2012 recipient of the Lister Prize in the Department of Surgery which is the highest honor bestowed upon a member of the Department of Surgery for research.

Glen Van Arsdell was the recipient of the William G. Williams Award for Excellence in Cardiac Surgery Teaching.

Subodh Verma was renewed as a Canada Research Chair for an additional five years

Terry Yau was the recipient of Lynda L. Mickleborough Award for Excellence in Cardiac Surgery Teaching.

FACULTY GRANTS (alphabetical)

Stephanie Brister holds a grant from the Heart and Stroke Foundation of Canada [An RCT of Women’s Adherence to Women-Only, Home Based and Traditional Cardiac Rehabilitation].

Christopher Caldarone holds a grant from the Heart and Stroke Foundation [Randomized Trial of Hybrid and Norwood Single Ventricle Palliation] and the Saving Tiny Hearts Foundation [Pulmonary vein stenosis is congenital heart disease]. Dr. Caldarone continues to manage the finances of the CHSS Datacenter.

Gideon Cohen continues to hold two grants from the Cardiothoracic Surgery Network [NIH/CIHR].

John Coles holds a grant from the Ministry of Health of Ontario [Cardiovascular Biomarker Discovery and Validation] and the Garron Family Cancer Centre [Repurposing of FDA-approved drugs to prevent cardiotoxicity in cancer chemotherapy].

Stephen Fremes holds four grants from the Canadian Institutes of Health Research [Steroids in Cardiac Surgery Trial, CABG Off or On Pump Revascularization Study, Transfusion Requirements in Cardiac Surgery, Canadian Network and Centre for Trials Internationally] and the Heart and Stroke Foundation [Improving the Assessment and Treatment of Severe Aortic Stenosis by Evaluating Care Gaps and Advancing Risk Predictions, Superior SVG Patency Trial-Surgical and Pharmacological novel in Interventions to Improve Overall Results of Saphenous Vein Graft Patency in CABG Surgery: An International Multi-centre RCT].

Osamu Honjo holds one grant from the Labatt Family Heart Centre [Establishment of mechanically-assisted primary cavo-pulmonary connection physiology in infantile piglets: A proof of concept animal study] and one grant from the University of Toronto Roscoe Reid Graham Scholarship in Surgical Science [Age-dependant vulnerability of developing brain to cardiopulmonary bypass-associated hyperperfusion and ischemia in neonates and infants undergoing congenital heart surgery].

Fuad Moussa holds one grant from the JP Bickell Foundation [Usability Testing of Virtual and Usable Resources for Training Off Pump for Coronary Artery Bypass Surgery] and one grant from the Academy’s Education Research and Scholarship [Developing and Evaluating a Simulation Based Program for Treating Off Pump Coronary Artery Bypass Surgery].

Mark Peterson holds one grant from the SMHA Innovation Funds [TAC-CALL: Thoracic Aortic Care – Comprehensive Aortic Care on-Line From Acute Presentation to Long-Term Follow Up] and one grant from the Canadian Institutes of Health Research [Frailty Assessment Before Cardiac Surgery and Transcatheter Interventions].

Vivek Rao holds a grant from the Heart and Stroke Foundation of Canada [Prognostic Role of Endothelial Progenitor Cells in Patients with Heart Failure] and one grant from the UHN/MSO Academic Medical Organization Innovation Fund Competition [Use of Volatile Anaesthetics for Long Term Sedation in Critically Ill Patients].

Glen Van Arsdell holds one grant from the Heart and Stroke Foundation of Ontario [Can Sustained Post-Operative Biventricular Pacing Improve Hemodynamics in Children with Electro-Mechanical Dysynchrony After Surgical Repair of Congenital Heart Disease?] and one from the Canadian Institutes of Health Research [Clinical Assessment of Thrombosis in Children after Heart Surgery: The CATCH study].

Subodh Verma holds two grants from the Heart and Stroke Foundation of Ontario [Elucidating the Role of MicroRNA-145 in Atherosclerosis, Surgical and Pharmacological Novel Interventions to Improve Overall Results of Saphenous Vein Graft Patency in CABG Surgery: An International Multi-Centre RCT], one grant from the Canada Foundation for Innovation [ZebraFish Centre for Advanced Drug Discovery: A High Throughput Screening Platform for Targeting Cardiovascular Disease], one grant from AstraZeneca Canada [Primary cARe AuDit of Global risk management: PARADIGM Study], one grant from Physicians’ Services Incorporated Foundation [Elucidating the Role of Birt-Hogg-Dube in Adverse Cardiac Remodelling], one grant from the Canadian Institutes of Health Research [Canada Research Chair in Atherosclerosis] and one grant from Bayer AG [Current Trends in the Management of Atrial Fibrillation in Canada].

Richard Weisel holds a grant from the Innovation Fund of the Peter Munk Cardiac Centre [The Next Generation of Cell Therapy] and a grant from the Canadian Institutes of Health Research [Ultrasound Targeted Gene Delivery to Enhance Cell Engraftment in the Aged Heart After Ischemic Injury].

Terrence Yau holds a grant from the Heart and Stroke Foundation of Ontario [Electrophysiological Implications of Regenerative Therapy], one grant from the Ryerson New Faculty SRC Development Fund [Facilitators and Barriers to Effective Discharge Following Open Heart Surgery: Patients’ and Nurses’ Experimental Accounts], one grant from the Innovation Fund [Improving Transfusion Practice and Clinical Outcomes in Cardiac Surgery], two grants from the Canadian Institutes of Health Research [Screening for Dysphagia in Patients Following Prolonged Intubation].
Validation of the Toronto Bedside Swallowing Screening Test, The Design and Planning of a Randomized Controlled Trial to Evaluate a Tailored Cardiovascular Surgical Patient Education Intervention in Reducing Post-Hospital Discharge Complications and Readmission Rates, and one grant from the Peter Munk Cardiac Centre Innovation Committee (Cardiac Regeneration – The Next Generation of Cell Therapy).

RESIDENTS AND FELLOWS HONOURS/ AWARDS (alphabetical)

Saswata Deb under the mentorship of Steve Fremes was awarded a 2012 Canada Vanier Scholarship which involved a steep 4-level multidisciplinary competition across Canada

Praphulla Shukla under the mentorship of Subodh Verma was honored as a finalist in the 2011 American Heart Association Vivien Thomas Young Investigator Award for his paper entitled “MicroRNA-145 is a novel regulator of atherosclerosis”

New Residents

The Division of Cardiac Surgery welcomes Rachel Vanderlaan as our newest Cardiac Surgery Resident.

VISITING PROFESSORS (alphabetical)

James Cox presented the 2011 Heimbecker Lecture entitled “25 Years of Surgery for Atrial Fibrilation”


John S. Ikonomidis presented “Proteinase Systems and Thoracic Aortic Aneurysm Progression” as a Distinguished Visiting Professor on March 26, 2012.

Sidney Levitsky presented the 2011 Bigelow Lecture entitled “Healthcare Inflation: Evidence based medicine vs the Medical-Industrial Complex”

Philip Menasche presented “Stem cells for heart failure: Roadblocks that still impede broad clinical applications” St. Michael’s Hospital Research Grand Rounds on June 25, 2012
Division of General Surgery

Andy Smith, Chair

The academic footprint of the Division of General Surgery is significant and the individual hospital divisional reports in this volume demonstrate the hundreds of papers, grants and honors achieved in 2011-12. Below, I have attempted to highlight some important milestones and themes that reflect the work of our team as considered through the lens of the new departmental strategic plan.

**EDUCATION**

The Division of General Surgery continued to embrace and expand its role in education at all levels. In undergraduate education, Darlene Fenich was appointed the Director of the Mechanisms, Manifestations and Management of Disease course at the Medical School. MMMD is a 36 week course which runs throughout the second year of medical school and it is unprecedented that a surgeon has been appointed as leader of the course. Jaime Escallon was appointed city-wide Divisional Director of the Surgical Clerkship. Georges Azzie won the 2012 Tovee Award (Undergraduate) at Gallie Day and Tulin Cil won the Wightman-Berris Undergraduate Education Award.

Program Director Najma Ahmed and the Division of General Surgery proudly welcomed 13 new PGY-1 residents including Jason Booy, Veronica Liang, Andras Fesco, Stephanie Mason, Dan Kagedan, Petra Wildgoose, Josh Kamstra, Stephanie Ramkumar, Ricky Jrearz, Nikki Hoffman, James Jung, Maeve Trudeau, and David Berger Richardson. At the same time, 14 residents were graduated from the Gallie Program at the 2012 Annual Assembly in May. They included Syed Ali, Kengo Asai, Kalkidan Belay, Danielle Bischof, Joslin Cheverie, Preeti Dhar, Elisa Greco, Aliyah Kanji, Steve McLellan, Carmen Mueller, Sergio Muraca, Justyna Wolinska, Simon Yang and Saquib Siddique.

Dr. David Rattner from Harvard was the Tovee lecturer at the 2012 Assembly.

The residency program was evaluated through an internal UofT review which highlighted the unmatched array of opportunities for learners in the program led by Najma Ahmed. The report also highlighted contemporary issues that we will address including ‘physician extenders’ and duty hours.

Surgical fellowships are becoming increasingly rigorous and well defined and the Division responded to this by appointing Paul Grieg to provide overarching leadership of the 8 formal, accredited fellowships. Paul is leading a team of fellowship program directors to foster collaboration and appropriate integration between the various fellowships at U of T. Of note, Marcus Burnstein passed the baton of leadership of the world renowned colorectal fellowship to Helen Macrae after 16 years in the lead role.

The publication of the U of T Surgical Oncology Manual by the faculty and fellows of the Surgical Oncology Fellowship was a highlight of the year. Frances Wright, Jamie Escallon, Moises Cukier and Amy Gilles led this superb effort.

The Division continued to produce a wide array of continuing education courses highlighted by the 52nd Annual Update in General Surgery, held at the Royal York Hotel. Over 500 surgical professionals attended the event which focuses on practical topics in General Surgery. Presentations were well evaluated and attendees commented on the role the course plays as a focal point for the General Surgery “community of practice” in Ontario and across Canada. Fourteen surgeons from British Columbia attended for example.

**RESEARCH AND INNOVATION**

The Division continued to achieve at a high level as evidenced by papers published, grants captured and awards received. The individual Divisional reports in this report enumerate a comprehensive listing of these achievements. Special note should be made of Teodor Grantcharov having won the George Armstrong Peters Award for his record of leading scholarship in surgical education. The Division continues to boast a number of Surgical Scientists residents working in diverse research environments. It was noteworthy that General Surgery residents made a big impression at Gallie Day winning the Gallie-Bateman awards.

**1st Place - Jonathan Yeung**

“Ex vivo lung perfusion for evaluation and repair of donor lungs for transplantation”.

Supervisor: Shaf Keshavjee

**2nd Place - Lakhbir Sandhu**

“Separating the wheat from the chaff: empirically identifying the characteristics of high quality non-randomized studies”.

Supervisor: David Urbach

**2nd Place - Francis Zih**

“Polo-like Kinase 4 enhances cancer cell motility and invasion”.

Supervisor: Carol Swallow
Honourable Mention – Boris Zevin

‘An evidence-based framework for the design, validation and implementation of a simulation based surgical training curriculum’.

Supervisor: Teodor Grantcharov

In 2012 the Division commissioned a review of its research enterprise. Dr. Geoffrey Porter of Dalhousie University submitted an excellent assessment of the Division. Dr. Porter was laudatory of the record of achievement while bringing focus to the specific challenges and opportunities we need to focus on and develop deliberate steps to address. These are especially in the area of mid-level faculty support and the opportunities around integration and innovation. These aspects are also addressed in the Department’s White paper and set out as focal points in the new Departmental Strategic Plan.

QUALITY AND BEST PRACTICES

General Surgery continued to lead in the creation of evidence-based guidelines and the implementation of the guidelines throughout the city through the BPiGS initiative. Led by Robin McLeod, an enlarging and increasingly varied inter-professional BPiGs team continues to bring focus to core areas of clinical importance including surgical site infection, mechanical bowel preparation, thrombo-prophylaxis, intra-abdominal infection, enhanced recovery after surgery (ERAS) and peri-operative pain management. Particularly noteworthy for 11-12 was the willingness of the University of Toronto hospitals to target money from their base budgets to support BPiGS evolution and thus sponsor the development of a single Toronto-wide approach to patient management. Additionally, BPiGS continued to catalyze awareness, agreement and adoption beyond Toronto as a result of outreach activities such as the BPiGS listserv and our U of T General Surgery Update Course. As 12-13 began, the Division was preparing to roll-out a multipronged approach to insure the successful KT of the ERAS initiative.

FACULTY DEVELOPMENT

General Surgery was fortunate to attract 5 new faculty members to the Division across the city, each bringing an array of clinical and academic strengths to our city-wide team. Shady Ashamalla [Sunnybrook; minimally invasive surgical oncology and curriculum development in simulation], Sandra de Montbrun [St. Michael’s; colorectal surgery and surgical education research], Karen Devon [Women’s College; endocrine surgery and ethics], Fayez Quereshy [UHN; minimally invasive surgical oncology and healthcare economics] and Jensen Tan [Humber River Regional Hospital; minimally invasive surgical oncology and surgical education] all will serve to continue to renew and invigorate our Division.

Promotion, the ultimate measure of academic development was awarded this year to:

Todd Penner to Assistant Professor
Carol Anne Moulton, Homer Tien and Natalie Coburn to Associate Professor

Helen Macrae and Sandro Rizoli to Professor

INTEGRATION AND OUTREACH

William Osler said that “the chief weakness of the profession of medicine lies in its tendency to break into cliques and coteries, the interests of which take precedence over other of wider and more public character. From this a baneful individualism is likely to arise, with every man for himself.” The Division of General Surgery seeks to avoid this unfortunate tendency. Toronto benefits from a culture of striving to look for opportunities to integrate within the city and to provide impact beyond Toronto, in the Ontario health system and the world. 2011-12 was notable for the continued momentum of the U of T Trauma Program, a collaborative between St Michael’s Hospital, Sick Kids and Sunnybrook Health Science Centre to integrate trauma related activities in the areas of education, quality, and research. The UofT Trauma Program features collaborative fellowship training; the newly designed Trauma & ACS fellowship will have fellows receive training from St. Michael’s Hospital and Sunnybrook Health Sciences Centre. Additionally, UofT Trauma Guidelines seek to unify standards of care for trauma patients in Toronto and to have these readily available in an app. All trauma related educational activities and events are now found on the new website, www.trauma.utoronto.ca, or through the Divisional website at http://www.generalsurgery.utoronto.ca/Page17.aspx. Finally, Trauma Triage Transfer Criteria are improving the coordination efforts of EMS triage and the transfer criteria from community hospitals to a trauma centre.

The success of the Trauma Program is but one example in an increasing number of ways the individual hospitals' surgeons are linked in a systematic way.
The Division of Neurosurgery completed another year of strong academic performance and research productivity. Our 61 faculty and residents increased their publication output by 13 percent versus the previous year by publishing over 290 papers in top-tier journals including Nature, Nature Neuroscience and Lancet Neurology. Our neurosurgeons and affiliated neuroscientists captured 30 research grants with a total award value exceeding $22.3M.

Our faculty were elected to membership in prestigious bodies in science and neurosurgery, with James Rutka becoming a Fellow of the Royal Society of Canada and the Canadian Academy of Health Sciences and Abhaya Kulkarni joining the Society for Neurological Surgeons. Michael Fehlings and Charles Tator were co-awarded the Reeve-Irvine Research Medal for Spinal Cord Injury Research, and Dr. Tator received a Lifetime Achievement Award from the American Spinal Injury Association. Our residents captured another McKenzie Prize in Clinical Neuroscience Research, the premiere neurosurgical resident award in the country and a Banty Prize from the Canadian Institutes of Health Research.

The year concluded with the establishment of the ‘Michael and Amira Dan Fellowships in Neurosurgery at the University of Toronto’. Over the next five years, these ten new training positions will be an invaluable addition to our academic mission. We remain extremely grateful to the Dan Family for their strong ongoing commitment to neurosurgical education and excellence in Toronto.

RESEARCH GRANTS

Leo da Costa was co-investigator on a 2-year $162,500 grant funded by Physicians Services Incorporated entitled “Catecholamines as outcome markers in traumatic brain injury study COMA in TBI study” [PI: Sandra Rizzoli].

Leo da Costa was co-investigator on a 3-year $134,200 grant funded by the Canadian Institutes of Health Research entitled “Optical Coherence Tomography for Intraoperative Imaging During Skull Base Neurosurgical Procedures” (PI: Victor Yang).

Sunit Das was awarded a 2-year BRAINchild $44,100 grant entitled ‘The role of the epithelial-mesenchymal transition in the maintenance of stem-cell identity in glioblastoma brain tumor stem cells’.

Karen Davis was co-investigator on a new 4-year $451,668 grant funded by the CIHR entitled ‘Development of a perfusion MRI technique to investigate longitudinal effects of chronic pain on brain function’. [PI: Keith St. Lawrence, Univ. of Western Ontario]

James Drake was awarded a 2-year $85,000 grant from MaRS Innovation to fund work on an ‘Anastomosis Tool Kit’.

Michael Fehlings received funding from the Rick Hansen Institute for the project ‘Access to Care and Timing Study’.

Michael Fehlings was awarded a 2-year grant from the Ontario Brain Institute for the Integrated Discovery System (IDS) Project entitled ‘CP Integrated Neuroscience Discovery Network (IDS-11-03).’

Michael Fehlings and Charles Tator received a 2012 grant from the Christopher Reeve Foundation to continue and commence new trials with the North American Clinical Trials Network for the Treatment of Spinal Cord Injury.

Clement Hamani was awarded a two-year grant from the Sao Paolo Research Foundation (FAPESP)—University of Toronto—Western University Researcher Exchange Program.

Loch Macdonald was awarded a $25,000 Canadian Institutes of Health Research (CIHR) Planning Grants—International Research Collaborations for the project entitled “Subarachnoid Hemorrhage International Trialists (SAHIT) Repository.”

Loch Macdonald and Jinglu Ai were awarded a $25,000 grant from the Brain Aneurysm Foundation for their project ‘Molecular mechanisms of memory loss following subarachnoid hemorrhage’.

Tom Schweizer won a New Investigator Award from the Heart and Stroke Foundation of Canada in the amount of $300,000 (2011-2016).

Tom Schweizer was the recipient of an Early Researcher Award from the Ontario Ministry of Research and Innovation valued at $140,000 (2011-2016).

Andres Lozano was awarded a three-year $225,000 research grant from the Canadian Institutes of Health Research (CIHR) in conjunction with the ERA-NET NEURON program for a project entitled ‘Biomaterials scaffolding for brain reconstruction in stroke’.

Andres Lozano has been awarded a 3-year $520,439 grant as lead investigator from the Federal Economic Development Agency for Southern Ontario (FedDev Ontario)/Ontario Brain Institute for his project entitled “Deep Brain Stimulation for Alzheimer’s disease”.

Andres Lozano was awarded a three-year $225,000 grant from the Krembil Foundation to support clinical studies of deep brain stimulation in Alzheimer’s disease.
Andres Lozano received a 1-year $150,000 grant as lead investigator from the Klarman Family Foundation for his project entitled “Deep Brain Stimulation for the Treatment of Anorexia Nervosa: A Pilot Trial”.

Andres Lozano was awarded a renewal of his $200,000 Tier 1 Canada Research Chair in Neuroscience. The CRC Secretariat awards Tier 1 Chairs for seven-year terms to outstanding researchers acknowledged by their peers as world leaders in their fields.

Andres Lozano was the lead investigator of a new PET Scan Suite, supported by a $2.1M Ontario Innovation Trust award to Dr. Lozano, a generous donation from the Safra Foundation, and a number of contributions from patients.

Julian Spears was co-investigator on a 1-year $99,300 grant funded by the Canadian Institutes of Health Research for a project entitled “Systematic reviews of the evidence regarding chronic cerebrospinal venous insufficiency (CCSVI) and Multiple Sclerosis” [PI: Andreas Laupacis].

Michael Taylor was awarded as lead investigator a 3-year $9.8M grant from Genome Canada for his project entitled “Stratifying and Targeting Medulloblastoma Through Genomics”.

Michael Taylor was awarded as Co-PI a $2.8M Genome Canada / Canadian Institutes of Health Research grant for 2011-12 with Dr. Paul Sorensen [Univ. of British Columbia] for their project entitled “The Canadian Pediatric Cancer Genome Consortium: Translating next-generation sequencing technologies into improved therapies for high-risk childhood cancer”.

Michael Taylor received a 5-year $2.6M grant from the National Institutes of Health with Drs. Bill Weiss (UCSF) and Robert Weschler-Reya for their project entitled “Cellular and Genetic Basis of Anaplastic Medulloblastoma”.

Michael Taylor was awarded [with Dr. Ian Scott] two 1-year BRAINchild operating grants focused on modeling medulloblastoma in zebrafish and on identifying Group D medulloblastoma oncogenes.

Michael Taylor received a 1-yr $75,000 Accelerator Grant in Genomic Medicine from the McLaughlin Center for Molecular Medicine for studies on drug response in medulloblastoma.

Taufik Valiante was awarded as Co-PI a 5-year $705,670 grant entitled “Transitional states of seizures: mechanisms and modulation” from the Canadian Institutes of Health Research [CIHR] [PI: Peter Carlen].

Taufik Valiante was awarded as PI a 1-YR $60,000 Mathematics of Information Technology and Complex Systems (MITACS)-Accelerate Cluster Award entitled “Signal processing of EEG for detection and classification of clinical brain states”.

Taufik Valiante was awarded as Co-PI a grant entitled “Lacosamide Anticonvulsant Actions on Epileptic Tissue” from UCB Pharma.

Gelareh Zadeh was awarded a 5-year $762,872 Operating Grant as Co-PI from the Canadian Institutes of Health Research (CIHR) for the project entitled “Targeting Thrombospondin-1 in medulloblastoma” [PI: A Huang].

Gelareh Zadeh was awarded a 3-year $385,251 Operating Grant as Lead PI from the Canadian Institutes of Health Research (CIHR) for the project entitled “Role of Bone Marrow Derived Progenitor Cells in Brain Tumor Neovascularization”.

Gelareh Zadeh was awarded a $60,000 grant as lead investigator from the Cancer Research Society for her project entitled ‘Aberrations in EGFR in Human GBMs: Novel Diagnostic and Biomarker Strategies’.

Gelareh Zadeh was awarded a 1-year $50,000 BRAINchild grant entitled “Examining adverse radiation effects in developing brain.”

**RESIDENTS AND FELLOWS HONOURS/ AWARDS/POSITIONS HELD**

Ryan Alkins received the New Investigator Award at the American Institute of Ultrasound in Medicine Annual Convention for his work entitled “Blood-Brain Barrier Disruption With Focused Ultrasound Allows Brain Tumor Therapy With Targeted Immune Cells”.

Ryan Alkins was awarded the Edward Christie Stevens Fellowship in Medicine and Joseph M. West Family Memorial Fund for 2011-12.

David Cadotte won the Synthes Award for Resident Research on Brain and Craniofacial Injury for his paper entitled, “Visualizing Plasticity and Altered Neuronal Signaling in the Injured Human Spinal Cord with fMRI”.

David Cadotte was awarded a 2-year Postdoctoral Fellowship Grant from the Craig H. Neilsen Foundation for his project "Functional MRI evaluation of the human spinal cord”.

David Cadotte was awarded the Chisholm Memorial Fellowship, Miriam Neveren Memorial Award, Edward Christie Stevens Fellowship in Medicine and Joseph M. West Family Memorial Fund for 2011-12.

Douglas J. Cook and Michael Tymianksi published a study in Nature that demonstrates the neuroprotective effects of a postsynaptic density (PSD95) inhibitor in treating stroke in an experimental primate model of the disease.

Gregory Hawryluk won the Best Science Paper Award in the 2011 Region XII Committee on Trauma resident paper competition of the American College of Surgeons and was the unanimous choice of the Canadian Trauma Association to represent Canada at the 2012 American College of Surgeons Trauma Research competition.

Gregory Hawryluk won the National Neurotrauma Society’s Murray Goldstein Award for his work entitled “Neural Precursor Cells Express Trophins Following Transplantation but Remyelination is the Key Mechanism by which They Augment Functional Recovery Following Rodent Spinal Cord Injury”.

George Ibrahim was awarded the Bisby Prize from the Canadian Institutes of Health Research for ranking first among applicants in the CIHR Fall 2011 Health Professional Awards fellowship competition.

George Ibrahim was awarded the William S. Fenwick Research Fellowship and Joseph M. West Family Memorial Fund for 2011-12.

Nir Lipsman was awarded a CIHR Fellowship Grant in the amount of $50,000 for the 2011-12 academic year.
Nir Lipsman was the recipient of the William S. Fenwick Research Fellowship, Chisholm Memorial Fellowship, Miriam Neveuer Memorial Award, Edward Christie Stevens Fellowship in Medicine and Joseph M. West Family Memorial Fund for 2011-12.

Demitre Serletis has been named to the prestigious Forty Under 40 Class of 2012 by the Greek America Foundation in recognition of recipients’ tremendous contributions to their communities and to the world around them.

Sunjay Sharma was awarded the Synthesis Award for Resident Research on Brain and Craniofacial Injury at the Congress for Neurological Surgeons 2011 Annual Meeting.

Adrienne Weeks was the recipient of the 2011 A.W. Harrison Resident Teaching Award. This award is given in recognition of excellence in teaching of medical students as determined by the best teaching effectiveness scores across the Department of Surgery at Sunnybrook Hospital.

Jeff Wilson was awarded the Canadian Neurological Society’s 2012 K.G. McKenzie Prize in Clinical Neuroscience Research (1st Place), the most prestigious resident awards in our discipline in Canada, for his work entitled ‘A Clinical Prediction Model for Long-Term Functional Outcome after Traumatic Spinal Cord Injury’.

Jeff Wilson was selected for the Synthes Spinal Cord Injury Resident Award from the American Association of Neurological Surgeons [AANS] for his work entitled ‘A Prediction Model for Functional Outcome after Traumatic Spinal Cord Injury’.

Jeff Wilson was the recipient of a Clinical Trial Fellowship Award from the American Association of Neurological Surgeons/Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves for a clinical trial proposal in acute spinal cord injury.

Jeff Wilson won the Scarlett Award from the Canadian Spine Society for his paper entitled ‘A Clinical Prediction Model for Long Term Functional Outcome after Traumatic Spinal Cord Injury Based on Acute Clinical and Imaging Factors’.

Jeff Wilson was the recipient of the Chisholm Memorial Fellowship, Edward Christie Stevens Fellowship in Medicine and Joseph M. West Family Memorial Fund for 2011-2012.

**FACULTY HONOURS/AWARDS/POSITIONS HELD**

Karen Davis was elected to a Council position of the International Association for the Study of Pain for a 6-year term.

Karen Davis was appointed to the Brain Canada Scientific Advisory Council for a 2-year term.

James Drake was appointed as Director of the Centre for Image Guided Innovation and Therapeutic Intervention (CIGITI), which brings together surgeons, engineers and software developers to develop innovative technologies in robotic and minimally invasive surgery, including the KidsArm, a robotic surgical system designed for operating on small children and babies.

Michael Fehlings is one of three recipients of this year’s Golden Axon Award from the Brain Mapping Foundation, given in recognition of individuals who have demonstrated world-class leadership in neuroscience and have reached out to their local communities.

Michael Fehlings was named the 2012 Mayfield Lecturer and the Mayfield Medalist.

Michael Fehlings was appointed as President of the Cervical Spine Research Society (CSRS) for the 2011-12 year.

Michael Fehlings accepted a 5-year appointment to the Neurosurgery Research and Education Foundation (NREF) Scientific Advisory Committee.

Michael Fehlings and Charles Tator are the co-recipients of the "Reeve-Irvine Research Medal". This Medal is given annually by the Reeve-Irvine Research Center at the University of California to individuals who have made critical contributions to promoting repair of the damaged spinal cord and recovery of function.

Fred Gentili and Charles Tator at Toronto Western Hospital on their receipt of Council Awards for 2011 from the College of Physicians and Surgeons of Ontario, given in recognition of outstanding Ontario physicians who have demonstrated excellence and come closest to meeting society’s vision of an "ideal physician".

Mojgan Hodaie has been awarded the 2012 Bernard Langer Surgeon-Scientist Award at the 38th Gallie Day, presented 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.

Abhaya Kulkarni was elected to membership in the Society for Neurological Surgeons. He joins Mark Bernstein, Michael Fehlings, Andres Lozano, Loch Macdonald, James Rutka and Michael Schwartz as our Division’s newest member of this prestigious society.

Andres Lozano was selected as the recipient of the 2012 Herbert Oliveira Award from the Karolinska Institute. The Award and Medal, named in honor of the father of modern neurosurgery in Sweden, is presented each year to a neurosurgeon for contributions to brain or spinal cord surgery and/or research.

Andres Lozano was the recipient of a 2012 Pioneer in Medicine Award from the Society for Brain Mapping and Therapeutics, given in recognition of individuals who have significantly contributed to the scientific advancement in the fields of medicine and image guided therapy through a multidisciplinary approach.

Andres Lozano has been made a Honourary Fellow of the Melbourne Bionics Institute.

Andres Lozano was cross-appointed as a Professor of Neurology in the Department of Medicine at the University of Toronto.

Loch Macdonald was the recipient of a Reviewer Excellence Award from the journal Neurosurgery.

James Rutka, Chairman of the Department of Surgery, was inducted as a Fellow of the Royal Society of Canada. To the best of our knowledge, Dr. Rutka is the second inductee from our Division and from the Department of Surgery at the University of Toronto who has been recognized with this honour.
James Rutka was elected to the Canadian Academy of Health Sciences, in recognition of his demonstrated leadership, creativity, distinctive competencies and a commitment to advance academic health science.

Charles Tator was the recipient of the American Spinal Injury Association (ASIA) Lifetime Achievement Award, for his contributions to the world of spinal cord injury care.

Charles Tator had a lecture named in his honor by the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section on Neurotrauma and Critical Care. This is a well-deserved recognition of Dr. Tator’s tremendous accomplishments and contributions in the field.

Charles Tator received the USA Hockey Excellence in Safety Award for his work in preventing brain and spinal cord injuries in hockey.

Michael Taylor was awarded the George-Armstrong Peters Prize from the Department of Surgery. The Prize is given in recognition of a young investigator who has shown outstanding productivity during the initial period as an independent investigator as evidenced by research publications in peer reviewed journals, grants held, and students trained.

Gelareh Zadeh on her receipt of the 2012 Lois H Ross Resident Advocate award from PAIRO, given to one individual each year who consistently advocates on behalf of residents and resident issues, within their role as either an administrator, teacher or clinician.

Gelareh Zadeh was appointed as the Chair of the Medical Advisory Committee for Acoustic Neuroma Association of Canada.

Gelareh Zadeh was given a full time faculty appointment at Spatiotemporal Targeting and Amplification of Radiation Response (STARR) Facility at University Health Network.

VISITING PROFESSORS

E. HARRY BOTTERELL PROFESSORSHIP

We were pleased to receive Professor Jacques Morcos, Universitry of Miami, as the 29th Botterell Visiting Professor on Nov. 10-11, 2011.

This year’s Botterell program was modified to include a special tribute on November 11 to Dr. Ab Guha, a neurosurgeon-scientist at Toronto Western Hospital and valued colleague, who passed away earlier that week. In attendance were Dr. Guha’s wife Soma and his children Deep and Tia, along with a strong showing from the University of Toronto and University Health Network communities who filled the Main Auditorium at the Western. The session was led by Dr. Fred Gentili and followed by moving tributes from Dr. Alan Hudson, past Chair of our Division, and from Dr. Gelareh Zadeh, who completed her PhD degree under Dr. Guha’s supervision.

HARLAND-SMITH LECTURESHP

On Mar. 29, 2012, the Divisions of Anatomy and Neurosurgery welcomed Dr. K. Daniel Riew, the Mildred B. Simon Distinguished Professor of Orthopedic Surgery and Professor of Neurological Surgery at Washington University, to Toronto Western Hospital as the 2012 Harland-Smith Lecturer.
BRUCE HENDRICK PROFESSORSHIP
On Sep. 23, 2011, we welcomed Dr. Richard Ellenbogen, Professor and Theodore S. Roberts Endowed Chair of Pediatric Neurological Surgery at the University of Washington, to the Hospital for Sick Children as our 26th E. Bruce Hendrick Visiting Professor in Pediatric Neurosurgery.

WILLIAM S. KEITH PROFESSORSHIP
On June 11-12, we welcomed Dr. Christopher Shaffer, Harrison Distinguished Teaching Professor of Neurological Surgery at the University of Virginia, as our 37th William S. Keith Visiting Professor at Toronto Western Hospital. Dr. Shaffer delivered three excellent surgical lectures including the Royal College of Physicians and Surgeons of Canada Lecture.

CITY-WIDE ROUNDS, ST. MICHAEL’S HOSPITAL
Dr. Peter Leroux, Associate Professor of Neurosurgery, University of Pennsylvania, was our City-Wide Rounds speaker hosted by St. Michael’s Hospital at the Li Ka Shing Knowledge Institute on Apr. 20, 2012.

CITY-WIDE ROUNDS, SUNNYBROOK HOSPITAL
Dr. Ali Krisht, Director of the Arkansas Neuroscience Institute, was welcomed as Sunnybrook Hospital’s City-Wide Rounds speaker on May 18, 2012.

CITY-WIDE ROUNDS, TORONTO WESTERN HOSPITAL
Dr. Christopher Ogilvy, the Robert G. and A. Jean Ojemann Professor of Neurosurgery at Harvard Medical School, was our Visiting Professor for City-Wide Rounds held at Toronto Western Hospital on Mar. 30, 2012.

DIVISION FIRSTS
Our Division’s 1st Annual General Meeting was held on Sep. 16, 2011 at the Toronto Western Hospital with approximately 40 faculty, resident and fellows in attendance. The Chairman’s state-of-the-union address provided an assessment of faculty demographics, OR statistics, grant funding and other measures of excellence. This was followed by updates from the Directors of the residency program, fellowship program and undergraduate teaching program. Division Heads from each hospital provided highlights of the past year’s achievements and plans for hiring and future growth.

We launched a new monthly public series, Faculty Focus, on our Division website. This series is meant to provide a more recent and in-depth feature on our faculty members, and the features will be compiled into a booklet and used to promote our Division for fundraising purposes.

In efforts to further strengthen our fellowship program, we appointed lead fellowship coordinators at each hospital: Drs. Todd Mainprize (Sunnybrook Hospital), Loch Macdonald (St. Michael’s Hospital), James Drake (Hospital for Sick Children) and Michael Tymianski (Toronto Western Hospital). Dr. Mainprize continues to serve as our Division’s Fellowship Director at the city-wide level.

In alignment with the Department of Surgery’s Strategic Plan for 2012-17, Surgical Leaders of Undergraduate Education were appointed at each hospital: Todd Mainprize (Sunnybrook Hospital), Julian Spears (St. Michael’s Hospital), Abhaya Kulkarni (Hospital for Sick Children) and Eric Massicotte (Toronto Western Hospital). Dr. Massicotte continued to serve as our Division’s Director of Undergraduate Teaching.

The Stereotactic and Functional Fellowship at the Toronto Western Hospital was accredited for a five year period by the Committee on Accredration of Subspecialty Training (CAST) of the Society of Neurological Surgeons. This is the first CAST-accredited stereotactic and functional fellowship in Canada, and the third in North America.

We are very pleased to have established two new city-wide fellowships in our Division effective Jul. 1, 2012, enabled by the generous support of Toronto-area neurosurgeon Dr. Michael Dan. Each year, two ‘Michael and Amira Dan Fellowships in Neurosurgery at the University of Toronto’ will be available, with applicants from Bosnia particularly encouraged. Over the next five years, these ten new training positions will be an invaluable addition to our Division’s academic mission, and we are extremely grateful to Michael and the Dan Family for their strong ongoing commitment to neurosurgical education and excellence in Toronto.

LEADERSHIP CHANGES/PROGRESSIONS
Michael Tymianski was selected as and accepted the position as Head of the Division of Neurosurgery at Toronto Western Hospital, effective June 1. Please join me in congratulating and conveying our best wishes to Michael on this prestigious appointment and in supporting him as he leads our Division at Toronto Western into our next stage of excellence at national and international levels.

ROYAL COLLEGE FELLOWSHIPS
The following PGY6 residents successfully passed their 2012 FRSCS fellowship examinations: Douglas Cook, Suneil Kalia, Demitre Serletis and Victor Yang.

I would ask our Division to pause and reflect on the challenges we have faced and our accomplishments made in the past academic year. We were deeply saddened and drawn closer together by the loss of dear colleagues and friends Ab Guha, Patricia Fleming and Thomas Morley. We have been enriched by our growing base of local and international fellows. And we continue to be inspired by the dedication and achievements of each of our outstanding Faculty and residents, who make us proud to be part of the world-leading group that is Toronto Neurosurgery. I thank each of our faculty, residents and fellows for their contributions to the life of our Division.
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e worked to implement our strategic plan entitled "Innovation and Evolution: Inventing the future of Toronto Orthopaedics." this past year. Three work groups: Education lead by Peter Ferguson, Research lead by Albert Yee and Clinical headed by Nizar Mahomed were formed. Progress reports were provided by all three group leaders at the Annual Division Wide Meeting in April. We are making steady progress navigating the future of orthopaedics in Toronto in all three of these areas.

We completed the third year of our competency-based curriculum. This pilot program, approved by the Royal College of Physicians and Surgeons of Canada, and funded by the Ontario Ministry of Health and Long Term Care is the only entirely competency-based residency training program that we are aware of in the world. I want to take this opportunity to thank all of our faculty members, who worked on this initiative. Markku Nousiainen our associate program director, Peter Ferguson, our residency program director, and Connie Johnson, the administrative coordinator for the program have done a phenomenal job in running the day to day aspects. By all measures this program has been a great success, with residents in the program achieving levels of competency in a single year that would have taken several in the traditional stream. Some of the components have been so overwhelmingly successful, such as the initial module that we incorporated this into our training program for all residents. Our third cohort of trainees entered the program this year, and we are looking forward to reporting our results of this very innovative educational program. There is worldwide interest in this program, and I am delighted that we now have several peer-reviewed publications on the outcome of this novel training approach.

Peter Ferguson continues to do a stellar job as our residency program director. Under his guidance we had a very successful external Royal College Review of both (Regular and CBC) streams of the program with no significant weaknesses identified. One of our future initiatives will be to take the necessary steps to enable our residency training program to switch to a competency-based curriculum as our multi-site clinically based programs continue to mature.

As part of our initiative to develop a broader competency based program, we are starting to think about organizing some aspects of education, research, and clinical care along specialties rather than sites. Albert Yee (Sunnybrook) along with Michael Pehlings (Neurosurgery – TWH) as co-director of the U of T Spine Program, are doing a fabulous job working to integrate spine care, education and research across orthopaedics but also between orthopaedics, neurosurgery and other disciplines treating the spine. Tim Daniels [SMH] as the head of our foot and ankle program has developed a Toronto wide foot and ankle education program (including a city wide fellowship program), and is helping to coordinate care between foot and ankle specialists in the GTA, and to encourage new research in this field. Darrell Ogilvie Harris (UHN and Women’s) continues to do a stellar job as interim head of our sports program. This program united clinicians from several of our hospitals and developed shared clinical resources for outpatient care at Women’s College Hospital towards the development of an innovative comprehensive sports, clinical, education, and research program. The program has developed a fully integrated education module for residents and fellows.

Our academic footprint is a measure of how we impact orthopaedics internationally. It is a measure of the impact of our publications, the number of our trainees who have develop successful academic careers outside of Toronto, and how our work improves the outcome for the patients we treat. We have one of the world’s largest academic footprints, having ranked third in the world in peer reviewed publications last year, and this accomplishment is in no small part due to our strong focus of research.

The Toronto Musculoskeletal Centre (a university wide extra-departmental unit) was initiated last year. While the center crosses all institutions and departments across the broad University of Toronto and its affiliated hospitals community, it has two nodes at Sunnybrook Hospital and Mount Sinai Hospital. The centre focuses on developing initiatives to help translating research from the bench to the bedside to the backyard. Several trainees working with members of our division received salary support for their interdisciplinary translational research. The centre is developing a new collaborative graduate education program, and helping with the recruitment of new MSK researchers to Toronto. Its ultimate goal is to develop new and improved methods of treating patients with orthopaedic and other musculoskeletal conditions. Our division members will be able to use the centre infrastructure to develop multi centre research and to help develop new interdisciplinary work.

Sevan Hopyan and Cari Whyne, as co-chairs of our research committee continue to do a fabulous job overseeing and mentoring the residents who entered their integrated research and clinical year. Their
participation in this novel combined clinical and research training program has facilitated the ability of our trainees to participate in high level research, resulting in an overall increase in our research productivity.

The past several years have seen the development of new technologies and research paradigms that have improved the quality and clinical applicability of our research work. These developments are associated with growth in the size of the biomedical research community and the expense of undertaking high quality research studies. Indeed there has been tremendous growth in the Toronto research community over the past decade. Unfortunately, national research funding has not kept pace with the increased costs associated with undertaking this high quality research. Despite these challenges, we continue to maintain research funding at a high level, with our funding this year totaling more than $6 million dollars.

We welcomed a new recruit this academic year, Paul Kuzyk. Paul has a clinical practice focused on lower limb reconstruction and an academic focus on research. We all welcome Paul to our faculty.

Congratulations to our faculty member who was successful at academic promotion this year at the university. Cari Whyne was promoted to full professor. Also thanks to our division member, Robin Richards, who chairs the departmental promotions committee.

Peter Ferguson received Tovee Postgraduate Prize for his educational achievements and Cari Whyne and Albert Yee awarded Charles Tator Award for their training of surgeon scientists at Gallie Day this year.

Our Graduation Day Visiting Professor was James Kasser, the Catharine Ormandy Professor of Orthopaedic Surgery at Harvard Medical School, and Chairman of the Department of Orthopaedic Surgery at Children’s Hospital Boston. He gave a fabulous and very insightful “Early DDH, Etiology, Diagnosis and Treatment” talk as his Salter lecture. Graduating residents presented their research work during the main Graduation Day activities.

The Lawson award for best academic resident, as adjudicated by a committee, went to Erion Qamirani, and the Meisami award for most compassionate resident, as selected by the faculty, went to Maryse Bouchard. The R.I. Harris award for the best presentation at the Graduation Day went to Tom Trajkovski and the Bob Jackson (for the best sports medicine talk); Canadian Back Institute (for the best spine talk) went to David Wasserstein and Edward Lansang respectively. The James Waddell award for the best PGY 4 resident was awarded to Mark Camp. David Backstein received the Divisional Award for Best Teacher as selected by the residents.

Peter Newman (San Diego), Robert Marx (New York), Bas Masri (Vancouver), Bruno Fuchs (Switzerland), Peter Bonutti (Effingham), Marc Philippon (VAIL) and William Levine (New York) all visited Toronto this year and gave University wide grand rounds. We had the inaugural Stefanovsky lecture for teaching better communication to orthopaedists. Gary Friedlaender (New Haven) was our inaugural lecturer. He gave an insightful talk on the importance of good communication in achieving excellent patient outcomes.

There were a large number of awards that our faculty received this past year. There are too many to mention here, and they are listed elsewhere in this annual report. Our fifth year resident Marilyn Heng received R. Wilson Award as an outstanding teacher as rated by undergraduate students.

The University of Toronto’s Division of Orthopaedic Surgery is continuing in its long history of excellence in clinical care, teaching, and research. Our faculty’s renewed focus on innovation and integration has resulted in new education, research, and clinical advances. I am proud of how well our division members are working together to inventing the future of Toronto Orthopaedics.
It has been an interesting and highly productive year for the Division of Plastic and Reconstructive Surgery with a change in leadership, hosting the Society Annual meeting, continued expansion and development making a major footprint in the research arena with several key grants and publications and a host of faculty and house-staff awards. With our faculty and housestaff, we are the largest academic Division of Plastic and Reconstructive Surgery in North America and have a powerful combination of community and academic partnerships with access to the entire spectrum of surgical experience for our trainees and world-renowned staff in the arenas of pediatric surgery, cleft, craniofacial, burns, microsurgery, facial reanimation, upper extremity, breast, aesthetic and oncologic surgery providing state of the art in patient care. Our faculty, alumni and trainees continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

RECRUITMENT:
Manuel Dibildox was recruited as a Lecturer to the Ross Tilley Burn Centre on July 1, 2011. Dr. Dibildox is now the fourth burn surgeon at the RTBC in the Sunnybrook Health Sciences Centre.

PROMOTIONS
Jeff Fialkov was promoted to Associate Professor

FACULTY AND RESIDENT GRANTS


Marc Jesche: “Characterization of Hepatic Dysfunction Post-Burn”. CFI funded grant for $1 million.


Greg Borschel, Wood, Matthew; Gordon, Tessa; Shoichet, Molly GDNF and BDNF Microspheres for Treatment of Nerve Injury. Ontario Ministry of Innovation, Post Doctoral Fellowship (PDF) Program. ($100,000 CAD, 2011-2013)

Greg Borschel, Tessa Gordon. Infrastructure Operating Funds (IOF); Nerve Research Centre at the Hospital for Sick Children in Toronto. Canada Foundation for Innovation [New Opportunities Fund], Infrastructure Operating Funds (IOF), 26497. ($47,574 CAD, 2011-2012)


Behavioural study of facial nerve injury and regeneration. The Hospital for Sick Children Research Institute, Trainee Startup Fund [TSUF]. Greg Borschel. Collaborators: Kemp, Stephen. ($3,000 CAD, 2011-2012)


Greg Borschel, Steven W. Kemp, PhD. Evaluation of P7C3, a novel neuroprotective compound, for peripheral nerve regeneration. RestraComp, Postdoctoral fellowship funding program. ($36,750 CAD, 2011-2012).

Greg Borschel, Tessa Gordon Improving functional recovery after peripheral nerve injury. CIHR, Operating Grant... ($290,996 CAD, 2011-2012).

Greg Borschel, Tessa Gordon Side to side nerve grafting to enhance regeneration in denervated distal nerve stumps. Comprehensive Research Experience for Medical Students (CREMS), CREMS 2011-13, ($5,500 CAD, 2011-2012)


Jeschke M. Characterization of burn induced hepatic dysfunction. National Institutes of Health (NIH) [USA]. NIH RO1 GM087285-01A2. [$228,000 per year 2010-2015].

Jeschke M. Leader’s Opportunity Fund application. Canada Foundation for Innovation (CFI). Project # 25407. 1,100,000 CAD. [$1,000,000 2010-2015].


Phillips J, Saber N and Forrest C. - The Use of Prefabricated Templates in Cranial Vault Remodeling. Hospital for Sick Children Peri-operative Services Innovation Grant [$10,000 – 2012]


RESIDENTS HONOURS/AWARDS/ POSITIONS HELD

Siba Haykal: Enrolled in the PhD Program at the Institute of Medical Science. CIHR Training Program in Regenerative Medicine Scholarship.


Kristen Davidge: Mentor Canada. Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award 2011-2012 for ’Processes of Care in Autogenous Breast Reconstruction with Pedicled TRAM Flaps: Expediting Postoperative Discharge in an Ambulatory Setting”.

Kristen Davidge: Shafe S. Fazel Outstanding Resident Surgeon and Investigator Award for 2012.

Kristen Davidge: 2012 Ross Tilley Scholarship

Jennica Platt: Received CIHR Master’s Award: Frederick Ban ting and Charles Best Canada Graduate Scholarship [$17,500] September 2012-2013.


Jennica Platt: Received the Mentor Medical Systems Canada Graduate Scholarship in Plastic and Reconstructive Surgery [1 year tuition, $8, 405] for 2011-2012.

Jennica Platt: Received the Research Recognition Award – Annual Division of Plastic and Reconstructive Surgery Research Day

Jennica Platt: Received the Ontario Ministry of Health - Clinical Investigator Program Salary Support Grant [$61,990 + benefits] 2011-2012.

Mike Hendry: Accepted into the 2012 - Clinical Investigator Program - accredited postgraduate medical education program of the Royal College of Physicians and Surgeons of Canada. Awarded full salary support and benefits for first year of study.

Mike Hendry: Received the 2012 Restracomp Research Training Competition Studentship, $ 40,000 per annum. This studentship is supported, fully or in part, by the Ontario Student Opportunity Trust Fund - Hospital for Sick Children Foundation Student Scholarship Program.

Mike Hendry: Received the 2012 - John Edward De Toro Scholarship, $550
Heather Baltzer: Received the ASSH/AFSH Annual Meeting Scholarship ($1500) 2011-2012
Received the Canadian Society of Plastic Surgeons Epidemiology and Biostatistics Award ($500)
Received the Canadian Journal of Plastic Surgery Award for Best Research Presentation ($2500)

Fellows Honours/Awards/Positions Held

Adel Fattah: (Fellow, The Hospital for Sick Children): Received the 2012 Lindsay Research Award presented at the 9th Annual Lindsay-Thomson Pediatric Plastic Surgery Symposium. “Creation of a 3D digital model of the gracilis muscle: Application to free functioning muscle transfer.” Adel received a cheque in the amount of $1000 and a plaque.

Amir Mad: Received an Executive MBA at the Rotman School of Management, University of Toronto June 2012. Full member of CSPS and ASPS.

Alison Snyder-Warwick (Fellow, The Hospital for Sick Children): “Functional outcomes in facial reanimation: Comparison of innervation sources” (Supervisors Drs. Zuker and Borschel)

FACULTY HONOURS/AWARDS/POSITIONS HELD

Cory Goldberg: Arnis Freiberg Faculty Teaching Excellence Award 2012.

Oleh Antonyshyn: William K. Lindsay Faculty Research Mentor Award 2012.

Dimitri Anastakis: appointment as Vice-Dean, Office of Continuing Education & Professional Development Faculty of Medicine, University of Toronto 2012 – present.

Executive Director, SIM-one, Ontario Simulation Network, May 2010-present
Local Host, Canadian Society of Plastic Surgeons Meeting in Toronto, Ontario June 5-9, 2012.

Surgeons as Educators Course Chair for the American College of Surgeons, Division of Education November 2010 – Present.

Association for Surgical Education Executive Committee, President Elect, Mar 22, 2011 - Present

VISITING PROFESSORS

2012 Hoyle Campbell Visiting Professor

This year’s Hoyle Campbell Visiting Professor was Dr. Michael Bentz. Michael L. Bentz, MD is Professor of Surgery, Pediatrics and Neurosurgery at the University of Wisconsin School of Medicine and Public Health. He serves as Chairman of the Division of Plastic and Reconstructive Surgery, and Vice Chairman of Clinical Affairs for the Department of Surgery. Visiting Professor events were held on Thursday February 9th for the Visiting Professor and Senior Residents only, Friday, February 10th, 2012 was dedicated to the Annual Division of Plastic and Reconstructive Surgery Research Day for all faculty, residents, fellows and alumni at the Art Gallery of Ontario and was sponsored by our various corporate partners.

10th Annual R.T. Manktelow Hand and Microsurgery Lectureship

This year’s Ralph T. Manktelow Hand Surgery Day was held on October 21, 2011. This year’s Visiting Professor was Dr. David Ring, Director of Research, Hand & Upper Extremity Service, Associate Professor, Harvard Medical School, Boston. Dr. Ring’s keynote address was entitled, “A New Look at Common Hand Problems”.

8th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery

The 8th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery was held on June 12, 2012. Professor Yu Ray Chen from Tapei, Taiwan was the 2012 Vale Inco Lecturer and spoke on “32 years after my craniofacial fellowship in SickKids” which was a reflection on his career achievements after completing his fellowship in craniofacial surgery under Dr. Ian Munro in 1979.

Continuing Medical Education

The 13th Annual Toronto Breast Symposium was held on April 19th, 2012 at the Sutton Place Hotel and welcomed Visiting Professors: Dr Rod Rohrich , Dallas, Texas and Dr. Simeon Wall Jr in private practice in Shreveport, Louisiana. This symposium was chaired by Dr. Mitch Brown and co-chaired by Dr. Brett Beber and Dr. Kyle Wanzel. This was followed by the 41st Annual Aesthetic Plastic Surgery Symposium held from April 20th - 21st, 2012. Visiting Professors included: Dr Rod Rohrich , Dallas, Texas and Dr. Simeon Wall Jr in private practice in Shreveport, Louisiana. Both symposia were well attended and the quality of the lectures was outstanding. This symposium was co-chaired by Dr. Frank Lista and Dr. Tom Bell.

3rd Annual Division of Plastic and Reconstructive Surgery Research Day was held on February 10th, 2012 at the Art Gallery of Ontario. This mini-symposium was well attended with 80 attendees which included faculty, residents, fellows and alumni. For the 2nd time this year, the annual Research Day was CEPD accredited. What was most notable this year as well as at the Research Day was that an evaluative process from the supervisors of the projects as well as feedback from the visiting professor and two judges was compiled and 100% of the resident presenters received recognition awards for their high caliber of research.

AO North American Hand & Wrist Course. An AO Hand and Wrist Fracture Management Workshop was held in Toronto on May 5th, 2012 was jointly organized by Dr. Paul Binhammer and Synthes.

Plastic Surgery School

Plastic Surgery School was implemented in September 2010 as the Division’s first Academic Half Day for the Senior Residents. Academic sessions are considered mandatory protected time for the residents. Most of these sessions are designed for senior residents, however some of the sessions are designed for both senior and junior residents. Plastic Surgery school takes place on Mondays from 8:00-11:00 a.m. and includes Resident Seminars, Ethnic sessions, Surgical Skills sessions, and CanMEDS seminars/workshops. Each of these sessions, as well as all academic activities have been formally evaluated, with feedback sent directly to the facilitators.
discussed Adult children. Vascularized Hospital 2012, Meeting At Division Firsts Leila and direct reconstructive began The IAMGOLD & AMREF Project Drs. making his many accomplishments and achievements in his tenure as Chair for the Division of Plastic and Reconstructive Surgery, University of Toronto. We wish much continued success to Dimitri as he embarks on many new challenges in his capacity as Vice-Dean, Continuing Education and Professional Development in the Faculty of Medicine.

IAMGOLD & AMREF Project The Division of Plastic and Reconstructive Surgery along with a grant obtained from IAMGOLD Corporation, began a project in East Africa to evaluate the need for reconstructive surgery in the region. The project is in direct partnership with the African Medical Research and Foundation (AMREF) based in Nairobi, Kenya. Dr. Leila Kasrav is leading the project in collaboration with Dr. Shahla Yekta, a global health researcher and co-founder of Mind the Health Gap.

Division Firsts At the Canadian Society of Plastic Surgeons Annual Meeting Educational Symposium held in Toronto in June 2012, Drs. Ronald Zuker and Greg Borschel from the Hospital for Sick Children presented their protocol for Vascularized Composite Tissue Allotransplantation in children. This is the first pediatric protocol in Canada. Adult protocols from London and Calgary were also discussed at the symposium. A multidisciplinary collaborative effort with partners from Toronto General Hospital [Drs. Stefan Hofer, Ralph Gilbert and Shaf Keshavjee] has been submitted to the Ministry of Health and Long Term Care.

Leadership Changes/Progressions After a highly successful 5-year review, Dr. Dimitri Anastakis was successfully awarded the position of Vice-Dean, Office of Continuing Education & Professional Development Faculty of Medicine, University of Toronto and stepped down as the Division Chair in September 2011. Dr. Christopher Forrest, Chief, Division of Plastic & Reconstructive Surgery at the Hospital for Sick Children assumed the role of Interim Chair. A search for the position has been launched.

ROYAL COLLEGE FELLOWSHIPS Kristen Davidge successfully passed her RCPSC fellowship examination. Taiba Al-Rasheed successfully passed her RCPSC fellowship examination. Richard Backstein successfully passed his RCPSC fellowship examination. Ryan Neinstein successfully passed his RCPSC fellowship examination. The Division of Plastic and Reconstructive Surgery at the University of Toronto remains a powerhouse of accomplishment in research, education and clinical service. Thanks to past plastic surgery leadership and faculty our division has been positioned favourably. With 44 faculty (plus 4 researchers), the Division of Plastic and Reconstructive Surgery is one of the largest academic plastic surgery centres in North America.
Division of Thoracic Surgery

Dr. Waddell, Chair

The academic year 2011-2012 was another tremendously successful year for our Division. It fills me with great pride to serve our University in leading such a committed and passionate group of faculty, trainees and associated colleagues. Exciting innovations abound in both clinical care and laboratory research and our Division continues to excel in all domains of teaching excellence, clinical innovation and fundamental investigation. Most importantly, the camaraderie and warmth of our Division continues as we all look forward to numerous occasions such as journal club, Visiting Professors, the Refresher Course and Pearson Day. These wonderful opportunities to enjoy the company of friends and colleagues ensure the bright future of our Division.

RECRUITMENT

The University of Toronto Division of Thoracic Surgery announced several recruits last year. This year, our partners at McMaster University recruited Dr. Colin Schieman after a fellowship at the Mayo Clinic. Dr. Schieman received his university education including undergraduate and medical school training at the University of Calgary and then completed both General and Thoracic Surgery residencies at the University of Calgary.

PROMOTIONS

There were no promotions this year.

RESEARCH GRANTS

Several faculty were successful in grant capture: Dr. Keshavjee (Canadian Cystic Fibrosis Foundation. Tissue Remodelling and the Immune Response in Obliterative Bronchiolitis After Lung Transplantation. PI Dr. Shaf Keshavjee $331,501), Dr. Yasufuku (CIHR. Porphysome nanoparticle-enabled minimally invasive transbronchial photothermal ablation of lung cancer, Co-investigator, Project Lead, Dr. Kazuhiro Yasufuku $756,699 and NSERC-CIHR Collaborative Health Research Program. Non-linear multimodal microendoscopy for lung cancer pathology. Co-I Dr. Kazuhiro Yasufuku $531,0000). Our partners in the McMaster program were also very successful last year: Dr. Christian Finley (Hamilton Academic Health Sciences Organization/McMaster Surgical Associates Research Innovation Grant: Patient Education and Support in Fast Track Thoracic Surgery. PI Dr. Christian Finley. $30,000, Juravinski Cancer Centre Foundation: Design and Evaluation of a Synoptic Operative Report for Lung Cancer. Co-PI Dr. Christian Finley. $24,355, Juravinski Cancer Centre Foundation.


RESIDENT/FELLOWS HONOURS AND AWARDS

One of the current clinical residents, Dr. Wael Hanna, has won a Astral Media Fellow Award from McGill University. Dr. Hanna also won the Best Clinical Research paper at Pearson Day in June 2012, while Dr. Tiago Machuca (a research fellow working with Dr. Keshavjee) won the Best Basic Science Research Paper. Dr. Siba Haykal, a Plastic Surgery resident working in the laboratory of Dr. Waddell had an outstanding academic year in 2011-2012. She won the Best Basic Science Research Award at the Canadian Society of Plastic Surgeons, was a finalist in the Alan Wu Poster Competition at the Institute of Medical Science Research Day. She was the recipient of several Post-Graduate Medical Education Awards, such as the William S. Fenwick Research Fellowship, the Edward Christie Stevens Fellowship in Medicine and the Joseph M. West Family Memorial Fund Award. She also received the extremely competitive Vanier Canada Graduate Scholarship from CIHR. Dr. Jon Yeung won first place in the Gallie-Bateman competition for his research undertaken under Dr. Keshavjee’s supervision. Dr. Stephane Collaud, a clinical fellow from Zurich Switzerland was selected for the very prestigious Evarts A Graham Travelling Fellowship from the American Association for Thoracic Surgery. Dr. Yaqoob Al-Sawafi won the 2011-2012 F. Griffith Pearson Award for Best Resident/Fellow Teacher.

FACULTY HONOURS AND AWARDS

Dr. Chris Compeau won the Outstanding Surgical Teacher at St. Joseph’s Hospital last year. Dr. Gail Darling has accepted major roles in important Thoracic Surgery organizations. She is now Chair of the Thoracic Surgery Specialty Committee of the Royal College and
Chair, Board of Regents for the International Association for the Study of Lung Cancer. She is a member of the Executive Committees of Lung Site Committee for National Cancer Institute of Canada Clinical Trials Group, and the General Thoracic Surgery Club. Several national and international special recognition awards were received by Dr. Shaf Keshavjee in recognition of the transformative impact that Ex Vivo Lung Perfusion [and organ repair in general] is having on the field of organ transplantation. These were the Zellers Senior Scientist Award (Cystic Fibrosis Canada), the Distinguished Lecturer in Respiratory Science Award [CIHR Institute of Circulatory & Respiratory Health & Canadian Thoracic Surgery] and the Roche Award for Excellence in Science [The Transplantation Society]. Dr. Tom Waddell is now the Thomson Family Chair in Translational Research. Dr. Kazuhiro Yasufuku won the Best Referenced Paper Award [Japanese Association for Thoracic Surgery]. Teaching awards were awarded to Dr. Gail Darling (Gail E. Darling Award for Excellence in Undergraduate Teaching) and Dr. Tom Waddell (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching).

VISITING PROFESSORS

Visiting Professors for 2011-12 were: Dr. Sean Grondin from University of Calgary who spoke about the challenges in thoracic surgery education and manpower planning for Canada. Dr. Malcolm Brock, from Johns Hopkins Medical School spoke on epigenetic regulation of malignancy and novel strategies for chemotherapy, and Dr. David Sugarbaker, from the Brigham and Women’s Hospital and Harvard Medical School who attended as the Kergin Lecturer for the Department of Surgery. Dr. Sugarbaker spoke about his success in uniting a diverse group of surgeons and hospitals into a powerful network. Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2012 and included the following Visiting Faculty – Dr. Robert Cerfolio [Alabama], Dr. Drew Bethune [Halifax], Dr. Nassar Altorki [New York] and Dr. Eugenio Pompeo [Rome]. Prior to the Refresher Course the annual EBUS Training Course was again hosted by Dr. Kazuhiro Yasufuku. The academic year concluded with Pearson Day, an annual celebration of clinical and laboratory research by trainees in our Division. The Pearson Day Visiting Professor was Dr. Eric Vallieres from Seattle.

DIVISION FIRSTS

New programs have been initiated by the Division of Thoracic Surgery. For example, at the UHN site the LungMets Program allows patients with malignancy metastatic to the lung to be evaluated by both Thoracic Surgeons and Radiation Oncologists. In October 2011, a program in Robotic Thoracic Surgery was initiated by Dr. Yasufuku and he performed the first robotic lobectomy in Canada shortly thereafter. The University of Toronto-McMaster Joint Program in Thoracic Surgery took another step forward with the first interchange of a clinical fellow, Dr. Nir Golan, who has spent a portion of his training both in Toronto and Hamilton.

LEADERSHIP CHANGES

Dr. Carmine Simone, long standing member of our Division of Thoracic Surgery at the University of Toronto with a major role in critical care is now the Surgeon-in-Chief at Toronto East General Hospital. Dr. Abdullah Behzadi has assumed leadership of Undergraduate Education for the Division of Thoracic Surgery.

ROYAL COLLEGE FELLOWSHIPS

Our previous trainees, Dr. Sameena Uddin and Sal Privitera passed their Royal College examinations in October 2011 and we welcome to the community of colleagues. Dr. Yaqoob Al-Sawafi has completed his Thoracic Surgery residency and will sit his exams this fall. Clinical Fellows completing additional training in 2011-2012 academic year included Tetsu Tagawa (Kyushu Medical School), who studied both Thoracic Surgery and Lung Transplantation. Drs. Henrique Nietmann (Serra dos Orgaos Foundation Medical School, Brazil), Tetsu Yamada (Kyoto University), and Bill Lynch (University of Iowa) completed advanced training in Lung Transplantation. Dr. Lianne Castle broke new ground as the first fellow to complete advanced training with Dr. Yasufuku in Interventional Bronchology as a respirologist.

In conclusion, 2011-2012 continued the tradition of excellence in surgery and scholarship for which the University of Toronto Division of Thoracic Surgery has earned a world-wide reputation. I thank each and every Faculty member, clinical Thoracic Surgery resident, Thoracic Surgery and Lung Transplant fellow, and research trainee for their important contribution to building and sustaining this stature. I would especially like to acknowledge the special contribution of Ms Nina Chana, our Administrative Coordinator, to the success of our Division.
Division Of Urology
Dr. Herschorn, Chair

ACADEMIC PROMOTION

Dr. Jack Barkin was promoted to Associate Professor.

HIGHLIGHTS

SICKKIDS

Dr. Joao Pippi-Salle continued as the Site Chief of Urology at Hospital for Sick Children.

He was an invited speaker, surgeon, and visiting professor at many locations around the world.

Dr. Darius Bagli continued his basic research in bladder diseases with projects funded by the CIHR, PSI, Kidney Foundation, AUA Foundation, and the Society for Pediatric Urology. He is also supervising research fellowships with funding from the Society for Pediatric Urology and the AUA Foundation. He was also invited to lecture in Europe and North America and won 3rd Prize for his work from the European Society for Pediatric Urology. He also served as Deputy Chief of Surgery at Hospital for Sick Children and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering with projects funded by The Hospital for Sick Childrens 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 organized and directed the 6th Annual North American Pediatric Fellows Laparoscopy Course.

He was an invited speaker both within and outside of North America.

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

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

He was an invited speaker in Europe and North America and was awarded the A.W. Bruce Undergraduate Teaching Award.

Dr. Martin Koyle continued his clinical research in pediatric urology. He had numerous visits as visiting speaker/professor throughout the globe

MSH

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

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

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

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

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

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

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

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

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

He was invited speaker and/or Visiting Professor to Europe, Asia and South America. He continued his research with funding from Ontario Institute for Cancer Research, CIHR, Canadian Cancer Society Research Institute, and the Canadian Uro-oncology Group.
SUNNYBROOK

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

Dr. Sender Herschorn continued as University Chair and Martin Barkin Chair in Urology.

He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction with projects funded by Allergan, Astellas, and Johnson and Johnson (Contura). He was invited speaker and lecturer in Latin America, Europe and Asia.

He was elected General Secretary of the International Continence Society in September 2011 for a 3 year term.

He also directed the 19th annual U of T Urology Update.

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

He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer with funding from NCIC, Prostate Cancer Canada, CIHR and Ferring. He was guest speaker and visiting professor in Asia, UK, Europe, South and North America.

He was awarded a Queens Diamond Jubilee medal in Spring 2011.

Dr. Ron Kodama, site chief at Sunnybrook, organized the 12th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2012.

He won the Faculty Postgraduate Teaching Award in 2012. Dr Kodama also chaired a plenary session at the American Urological Association Meeting.

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

He was an invited speaker in many places within and outside North America. He was awarded the Ajmera Chair in Urologic Oncology and had a Journal of The National Cancer Institute publication in 2012. Dr Nam also received the Faculty Postgraduate Teaching Award in 2012.

He continues as Vice-President of the Medical Staff Association at Sunnybrook.

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

Dr Venkateswaran also has assumed a major role at the Institute of Medical Sciences as Graduate Coordinator.

UHN - TGH AND PMH

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

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

He was invited speaker at meetings in Canada, U.S, Israel, Asia and Europe. He also served as chair of the 4th Annual Uro-Oncology Dialogue meeting in Niagara on The Lake.

He continued as the holder of the Love Chair in Prostate Cancer Prevention at the Princess Margaret Hospital and had a publication the Lancet medical journal..

Dr Fleshner was awarded a Queens Diamond Jubilee Medal in the Spring of 2012.

Dr. Michael Jewett continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. The funding is from CIHR, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC, Pfizer, and Merck-Frosst.

He continued as the Wyeth/CIHR Clinical Research Chair in Oncology.

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

He won the Faculty Postgraduate Teaching Award (Surgical) in 2012.

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

Dr. John Trachtenberg continued his active research into novel therapies for prostate cancer with grants from CIHR, PMH Foundation, Prostate Cancer Canada and NCIC. He was invited speaker in Europe, the U.S., and Canada.

He co-chaired the 21st Annual Issues and Controversies in Whistler, BC.

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

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

He won the Michael Jewett Postgraduate teaching award and the Bernard Langer Surgeon Scientist Award in 2012.

Dr. Andrew Matthew, clinical psychologist, continued his work in outcomes after prostate cancer therapy. The PMH Foundation funds his projects. He was an invited speaker in the Canada.

Dr Girish Kulkarni had a banner first year as a junior investigator/surgeon scientist securing peer-reviewed grants from Canadian Urologic Association, CIHR and a salary support award from prostate Cancer Canada. He continues his epidemiological research in bladder and prostate cancer.
UHN - TWH
Dr. Magdy Hassouna continued his basic and clinical work in neuromodulation. Research funding was received from the Ontario Neurotrauma Foundation, and CIHR.

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

Dr. Sidney Radomski continued his role as the Urology coordinator in the Surgical Skills Lab and director of the weekly postgraduate urology resident seminars. He continued his work in incontinence, overactive bladder and erectile dysfunction.

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

ST. MICHAEL’S HOSPITAL
Dr. Kenneth Pace commenced as site chief as St Michael’s Hospital. He continued his work in clinical epidemiology, stone disease, and Minimally Invasive Surgery. Grant funding is from Ontario AFP Innovations Fund, and LMA Urology USA.

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

He continued in the American Urological Association Leadership Program.

Dr. John Honey continued his work as Director of Endourology and the Stone Treatment Centre at SMH.

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

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

He won the Faculty Postgraduate Teaching Award (Surgical).

Dr. Jason Lee commenced his first year in practice engaged in education-based research and minimally invasive surgery. Dr. Lee will assume a major role in core curriculum development for undergraduate education.

ACADEMIC EVENTS & AWARDS

The Annual Charles J. Robson Research Day was held on April 12. The Visiting Professor was Dr. Roger Dmochowski, Professor of Urology Vanderbilt University in Nashville USA.

There were 39 presentations. Resident Clinical winner was Dr. Christopher Wallis; Resident Basic/Translational Dr. Justin Lee; Fellow Clinical winner was Dr. Michael Ordon; Fellow Basis/Translational winner was Andrei Drabovich.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Justin Lee.

The PGY-5s Drs. Stephanie Tam, Benjamin Johnson, Melise Keays, and Steve Kim, successfully completed their Royal College Examinations.

VISITING PROFESSORS

Guests this year were Drs. David Crawford, University of Colorado; Jason Bfstathiou, Massachusetts General Hospital; Craig S. Niederberger, University of Illinois; David Penson, Vanderbilt University; Curtis Pettaway, University of Texas; Curtis Nickel, Queens University; Marshall Stoller, University of California San Francisco.
A new year, a new resident training program. This was the inaugural year of the Royal College Direct entry Vascular Surgery Program. Universities across Canada mobilized to submit applications for the five year direct entry Royal College program in Vascular Surgery, initiate a CaRMS selection process and accept the first applicants. These enormous tasks were masterfully completed by Dr George Oreopoulos during his first year as the Vascular Surgery Program Director.

New Division Heads were named at Sunnybrook, Dr Andrew Dueck and University Health Network, Dr Thomas Lindsay who was also appointed the R. Fraser Elliott Chair in Vascular Surgery.

Dr Michael Ameli officially retired from St Michael’s Hospital as of June 30th 2012. A retirement dinner was held in his honor with previous trainees attending from Calgary, Peterborough and across Toronto. Dr Ameli’s prolific contributions in teaching and administration at the local, national and his presence at international meetings will long be remembered.

Dr Mark Wheatcroft joined the staff at St Michael’s Hospital as Dr Vern Campbell has changed his focus to dialysis access surgery. He joins Dr Tony Moloney further strengthening the academic component of the St Michael’s Hospital division.

The first Vascular Surgery Research Day was held in June 2012 with Dr Joseph Mills delivering the inaugural K. W. Johnston Lecture on “What is Critical Limb Ischemia?” The returning alumnus lecture was given by Dr April Boyd titled “Computational Fluid Dynamics Analysis of AAA – Expansion and Rupture”. In the resident competition, Dr William Johnson was awarded second prize for his talk “Complement Mediated Injury After Ruptured Abdominal Aortic Aneurysm”. First prize went to Dr. Varun Kapila for his talk entitled “Risk stratification of plaque and parenchymal risk: Identification of high-risk asymptomatic carotid artery stenosis using a novel MRI technique”.

The Division celebrated several firsts in new minimally invasive procedures. A multidisciplinary team of physicians including Dr. George Oreopoulos, Dr. Doug Ing and Dr. Dheeraj Rajan at UHN did the first renal denervation procedure for refractory hypertension in Canada in January 2012. In May 2012, the first in North America Anaconda Fenestrated EVAR stent graft for juxtarenal aneurysms was implanted by Drs. Leonard Tse and KT Tan at UHN.

**ADMINISTRATION**

The Division continues to have a significant administrative and advocacy role in Vascular Surgery in Ontario. Dr. Wayne Johnston has been the Co-Chair with Kori Kingsbury of CCN of the Vascular Advisory Committee which produced two reports for the Ontario Ministry of Health – “Access to EVAR in Ontario: Observations and Recommendations” and ‘A Vascular Services Quality Strategy for Ontario: Observations and Recommendations’. Drs Lindsay, Dueck and Pope also served on the writing committee. It is hoped these reports will help shape the future of Vascular Care in Ontario.

Dr. Rubin is the Program Medical Director of the Peter Munk Cardiac Centre, Chair of the Ontario Expert Panel on Appropriate Utilization of Diagnostic and Imaging Studies, Co-Chair of the Ontario Expert Panel on Multiple Sclerosis and a member of the CIHR expert Panel on Multiple Sclerosis research. He also continues as the Chairman and CEO of the MSH /UHN Academic Medical Organization and represents all AHSC AFP Governance Chairs in Ontario on the Academic Medicine Steering Committee. He has also joined Health Canada Scientific Advisory Committee for Devices used in the Cardiovascular System. Dr. Tanner is the Chairman of the OMA Negotiating Committee for a 2012 Framework Agreement for the Physicians of the Province of Ontario with the Ministry of Health and Long Term Care. Dr. Andrew Dueck has become the Head of the Vascular Surgery section at the OMA and co-organized the VITO and Toronto EndoVascular Symposium with Dr Wooster in 2012. Dr Lossing was appointed the Medical Director of Telemedicine St. Michael’s Hospital and is on the executive committee as a North American Representative to the International Society of Vascular Surgery. Dr Johnston continues as the Chair of the Document Oversight Committee (practice guidelines, reporting standards, and policies) for the Society for Vascular Surgery. Dr Dueck was named to the CCSV Executive Committee, the AFP board at Sunnybrook as well as the Executive committee for the Schultich Heart Program.
EDUCATION
Drs. William Johnson and Gus Azoubel completed their Royal College Fellowships in Vascular Surgery. Dr Luis Figueroa and Dr Raphael Gonzalvez each completed a one year Fellowship in Vascular Surgery. The Division welcomed Dr. Mohamad Hussain, Dr. Raphael Gonzalvez and Dr. Trisha Roy as the first direct entry trainees in the new five year Royal College training program. Drs Aaron Lo and Sydney Wong both transferred into the five year program at the PGY 3 level. Dr. Jonathanan Cardella was the recipient of the CSVS 2012 John L. Provan Educational Award for a project titled “A Simulation Based Course for Teaching Endovascular Skills to Vascular Surgery Trainees”.

RESEARCH
Dr. Rubin continues to hold three independent basic science operating grants from CIHR. He has had a career year for publications, with papers in Circulation, Nature, PloS One and the Journal of Biological Chemistry, and was visiting Professor in Goethe University, Frankfurt. In addition, he completed a 4 year term as Chair of the Grant Review Panel for the Foundation for Accelerated Vascular Research, San Francisco. Dr Dueck presented findings regarding chronic cerebrospinal venous insufficiency in Multiple Sclerosis to the CHIR expert panel, and at the 2nd annual ISNVD meeting. He and co-authors published a meta-analysis in the CMAJ on the association between chronic cerebrospinal venous insufficiency and Multiple Sclerosis.
HEADS OF DIVISION

Dr. G. Van Arsdell  Cardiac Surgery  
Dr. J. Langer  General Surgery  
Dr. J.M. Drake  Neurosurgery  
Dr. B. Alman  Orthopaedics  
Dr. C. Forrest  Plastic and Reconstructive Surgery  
Dr. J. Pippi Salle  Urology  

The Department of Surgery at The Hospital for Sick Children has had a productive year. Dr. James Wright continues to lead the Canadian Paediatric Surgical Wait Time Project. The project measures wait times for children’s surgery in 11 surgical subspecialties. In June 2012, the project contributed high-level findings to the Wait Time Alliance ‘Report Card on Wait Times’ for the third year and reported their finding that 31% of children continue to exceed nationally developed access targets. The project currently focuses on generating benchmark reports and supporting knowledge sharing for its participating hospitals. The project is transitioning towards data collection and reporting by the Canadian Association of Paediatric Health Centres - Canadian Pediatric Decision Support Network in 2013.

Targeted funding from the Ministry of Health and Long-Term Care continues to make a substantial impact on wait time for surgery at SickKids. While waits are still not ideal, the percentage of children who exceed nationally developed access targets has dropped from a high of 47% in 2007 to 18% in 2012.

NEW STAFF:
There were no recruits from July 2011 to June 2012.

DEPARTURES:
There were no departures from July 2011 to June 2012.

APPOINTMENTS & PROMOTIONS
Dr. Annie Fecteau was appointed Interim Head of the Division of General and Thoracic Surgery. Dr. Michael Taylor, Division of Neurosurgery, was appointed Senior Scientist at The Hospital for Sick Children’s Research Institute. Dr. James Rutka, Division of Neurosurgery, was appointed Chair of the Department of Surgery at the University of Toronto. Dr. Christopher Forrest, Division of Plastic Surgery, was appointed Interim Chair of the Division of Plastic Surgery, University of Toronto.

DIVISION OF CARDIOVASCULAR SURGERY
The Labatt Family Heart Centre (of which the division is a key participant) underwent a 10 year external review led by three well known individuals from Children’s Hospital Philadelphia and The Children’s Hospital, Boston. The following is a quote that opens their summary: ‘The reviewers unanimously found the Heart Centre at the Hospital for Sick Children
to be a premier pediatric cardiovascular centre, with superb performance in domains of clinical care, clinical research, academic scholarship extramural funding, and education. "The grand vision is to build an institute – a direction we believe will be necessary to maintain leadership and to improve the field.

Over the past five years the division has had the second highest level of publication impact points, with respect to congenital heart surgeons’ publications, in the world. Members of the division have continued to be invited to speak at major congenital cardiac forums around North America and the world.

Dr. Chris Caldarone received a clinical trial grant from the Heart and Stroke foundation, Dr. Osami Honjo maintains several startup grants, and Dr. John Coles continues in his CIHR grant studying integrin-linked kinase in tetralogy of Fallot. Dr. Glen Van Arsdell completed his clinical proof of concept Heart and Stroke grant.

Members of the division presented 23 invited lectures and others presentations, published 21 papers and hold 20 grants.

**DIVISION OF GENERAL AND THORACIC SURGERY**

After 12 years, Dr. Jack Langer has stepped down as Division Head and Dr. Annie Fecteau assumed the Interim Head position while the search for a new Division Head is being conducted. Dr. Langer has been elected and is now the President of the Canadian Association of Pediatric Surgeons for a two-year term.

Dr. Ted Gerstle is involved in a number of important initiatives with SickKids International including the development of training programs to build perioperative capacity and surgical expertise in Africa, and the development of perioperative services at a new children’s hospital in the Middle East. Dr. Gerstle was named Chair of the Canadian Association of Pediatric Surgery Program Training Directors.

Dr. Georges Azzie was the recipient of the Herbie Fund Doctor of the Year Award for his work in developing countries and the Bruce Tovee Award as the best teacher in surgical undergraduate education.

Dr. Paul Wales continues in his role as Director of The Group for Improvement of Intestinal Function and Treatment (GIFT), the only formalized program for short bowel syndrome in North America and the world.

Members of the division presented 67 invited lectures and others presentations, published 41 papers and hold 10 grants.

**DIVISION OF NEUROSURGERY**

Dr. James Drake has been appointed in the role of Director, Image Guided Innovation and Therapeutic Intervention. He continues to lead the Canadian Pediatric Neurosurgery study group. Drs. Drake and Kulkarni continue to be heavily involved in the research and quality improvement initiatives lead by the HCRN (Hydrocephalus Clinical Research Network).

Dr. James Rutka was appointed Chair of the Department of Surgery at the University of Toronto. He was also inducted as a Fellow of the Royal Society of Canada.

Dr. Peter Dirks has been involved with global hospital initiatives in addition to his numerous research activities.

Dr. Abhaya Kulkarni, Residency Program Director, has been elected to membership in the Society for Neurological Surgeons. In an effort to enhance undergraduate education opportunities in our division, Dr. Kulkarni has been appointed to this role for the SickKids site.

Dr. Michael Taylor was appointed to Senior Scientist, The Hospital for Sick Children Research Institute.

We welcomed Dr. Richard Ellenbogen, Professor and Theodore S. Roberts, Endowed Chair of Pediatric Neurological Surgery at the University of Washington, to the Hospital for Sick Children as our 26th E. Bruce Hendrick Visiting Professor in Pediatric Neurosurgery. Dr. Ellenbogen delivered two excellent talks, “Neurosurgery in Difficult Locations: The Case for Pineal Region” and “Concussion: Education & Advocacy”.

**INVITED SPEAKERS/VISITING PROFESSORSHIPS:**

Dr. James Drake was invited across the globe as far as Japan, discussing topics such as surgical management of hydrocephalus, robotics and imaging simulation, in utero repair of myelomeningocele and endoscopic third ventriculostomy.

Dr. James Rutka was invited around the world in places such as Japan, Memphis, Baltimore, Washington, Indianapolis and Australia.

Dr. Michael Taylor visited Whistler, Niagara Falls, Atlanta and Genoa.

Dr. Peter Dirks was invited to Barcelona, Heidelberg, Massachusetts and Montreal.

Members of the division presented 67 invited lectures and others presentations, published 95 papers including in Nature and Cancer Genetics and hold 36 grants.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. Benjamin Alman was elected to a Fellowship in the Canadian Academy of Health Sciences. Dr. Alman also continues as the interim Director of the Toronto Musculoskeletal Centre of the University of Toronto.

Dr. Unni Narayanan received the Dr. John Whittaker Memorial Cerebral Palsy Award, at the Bloorview Research Institute, Toronto, Ontario, Canada (Distinction, Specialty: Orthopaedic Surgeon and Clinical Researcher).

Dr. James Wright was awarded the John Sharrard Memorial Medal, from the British Society Children’s Orthopaedic Surgery, to recognize academic contributions to children’s orthopaedics.

Dr. Andrew Howard successfully ran the 12th Bethune Round Table Conference in Toronto. The division hosted Dr. Peter Newton, Orthopaedic Surgeon, Rady Children’s Specialists of San Diego and President of POSNA, as our Robert B. Salter Visiting Professor.

We hosted Dr. Michael Sussman, staff orthopaedic physician, Shriner's Hospital for Children Research, Portland, OR, as our Mercer Rang Visiting Professor.

The Division of Orthopaedics is continuing to build the Bone Health Centre focusing on the care of children with musculoskeletal conditions requiring multidisciplinary care, and in the development of collaborative research.

The division boasts four faculty members who hold CIHR funding as primary investigators, making them the highest proportion of CIHR funded orthopaedic surgeons in any one division in the country.

Members of the division presented 75 invited lectures and others presentations, published 42 papers and hold 32 grants.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

This has been a productive year for the division that is the largest group of full-time pediatric plastic surgeons in North America. Dr. Greg Borschel was awarded the Early Researcher Award (ERA) by the Ontario Ministry of Economic Development and Innovation. Dr. Borschel was chosen as the new Deputy Editor for the Journal of Plastic Reconstructive and Aesthetic Surgery. Tessa Gordon, PhD was the recipient of the Integra Foundation David G. Kline Lectureship at the Annual American Association of Neurological Surgeons meeting, the only non-surgeon to win this award. Tessa Gordon was also the inaugural recipient of the Hanno Millesi Award in Vienna for her unique contributions to the research of peripheral nerves. Drs. Borschel and Gordon were awarded a CIHR Operating Grant for their proposal entitled “Improving recovery after peripheral nerve injury.”

Drs. Ron Zuker and Greg Borschel will be submitting their proposal on Vascularized Composite Allotransplantation in the pediatric population to the Ministry of Health and Long-Term Care in the upcoming year.

Dr. Zuker has established a SickKids-India Educational Exchange Program.

The 8th Annual Lindsay-Thomson Pediatric Plastic Surgery was held in June 2012 with 80 attendees and Professor Yu-Ray Chen visiting from Taipei, Taiwan as the Vale Visiting Lecturer.

Post-graduate fellowship education in pediatric plastic surgery continues to be a high point in the division profile with 99 applicants for the five-fellow positions.

Dr. Christopher Forrest was appointed Interim Chair of the Division of Plastic Surgery at the University of Toronto.

Members of the division presented 87 invited lectures and others presentations, were visiting lecturers at the Mayo Clinic, Melbourne, Sydney, Kyoto, Okinawa, Kathmandu, Edmonton, Baltimore, and Pisa, published 24 papers and hold 22 grants.

DIVISION OF UROLOGY

Dr. Pippi Salle was awarded the Chair in Urology by the Women’s Auxiliary at SickKids. He was a visiting professor and attended many meetings in countries such as the United States, France, Brazil, Russia, Italy, Kuwait and Qatar.

Dr. Martin Koyle was the visiting professor in Dallas, Italy and England. He was also one of the primary invited surgeons to the International Society on Hypospadias and Disorders of Sex Development in London. Dr. Pippi Salle was President of that organization at that time. Dr. Koyle was invited to be the Visiting Professor at Dalhousie University in Halifax.

Dr. Darius Bagli was named the Distinguished Mentor for 2012 by the American Urological Association Foundation. This was the first time the award was made to a urologist in Canada, and the first ever for a pediatric urologist.

Dr. Karen Aitken, PhD, Dr. Bagli’s principal laboratory research associate, received a Basic Science Postdoctoral Award from the American Urological Association Foundation.

Dr. Walid Farhat successfully ran his 5th annual Pediatric Urology Laparoscopy course for all pediatric urology fellows across North America. Dr. Farhat was also a co-applicant for a successful grant from the Heart and Stroke Foundation entitled “Strategies for MRI assessment of microvessel integrity in Angiogenesis.” In addition, he also co-chaired the Canadian Urology Association Laparoscopy course for the 4th year, held in Montreal. He was also a visiting professor in Iran and Kuwait. Dr. Farhat received the Award for Teaching Excellence for the Pediatric Resident Lecture Series, University of Toronto.

Dr. Armando Lorenzo was awarded a C17 grant for fertility preservation preferences in prepubertal boys. He also organized and chaired the Society for Fetal Urology meeting in Atlanta, GA and was awarded the A.W. Bruce Faculty Undergraduate Teaching Award, Division of Urology, University of Toronto.

Members of the division presented 48 invited lectures and others presentations, published 26 papers and hold 14 grants.
EDUCATION:
The Department of Surgery continues to have an active education program training 41 clinical fellows, 8 research fellows, and 102 residents originating from 29 countries worldwide.

RESEARCH:
Of 39 surgeons, 25 have funded research programs. The department is engaged in a wide variety of clinical and basic research supervising 19 research fellows, 16 Masters and 17 PhD students.

Division of Cardiac Surgery

Dr. C.A. Caldarone  Professor
Dr. J. Coles  Professor
Dr. O. Honjo  Assistant Professor
Dr. G.S. Van Arsdell  Professor (Division Head)
Dr. W.G. Williams  Professor
Dr. C. Wittnich  Professor

PUBLICATIONS


INVITED VISITS

Caldarone CA: Cincinnati Children's Hospital, United States, 15 July 2011. Invited Speaker: The Toronto Perspective on the Hybrid Strategy.


Caldarone CA: American Heart Association, Orlando, Florida, United States, 13 November 2011. Invited Speaker: Hybrid palliation, an answer or a question?

Caldarone CA: Phillips, Ontario, Canada, 7 January 2012. Invited Speaker: Caldarone, Christopher Ischemic preconditioning: An interesting concept or a clinical reality?


Caldarone CA: American Association for Thoracic Surgery, San Francisco, California, United States, 1 May 2012. Invited Speaker: Discussant for Aortic Valve Replacement in Neonates and Infants - Contemporary Outcomes in the STS Congenital Heart Surgery Database.


Van Arsdell GS: Bermuda Hospitals, Bermuda, 15 May 2012. Invited Lecturer: Advances in Neonatal Surgery for Congenital Heart Disease. Other

RESEARCH AND INVESTIGATIONS


Age-Dependent Vulnerability of Developing Brain to Cardiopulmonary Bypass-Associated Hypoperfusion and Ischemia in Neonates and Infants Undergoing Congenital Heart Surgery. Honjo O: University of Toronto, Roscoe Reid Graham Scholarship in Surgical Science. ($75,000 2010 – 2013).


Cardiovascular Biomarker Discovery and Validation. Coles J: Ministry of Health of Ontario, GL2 Ministry of Research and Innovations. ($268,000 2010 - 2014).


ILK R211A as Therapeutic Target in Dilated Cardiomyopathy. Coles J: HSC Labatt Family Heart Centre Innovation Fund. ($45,519 2009 - 2011).


HONOURS AND AWARDS

Caldarone CA: Member, Board of Directors, Society of Thoracic Surgeons. 2011.

Van Arsdell GS: William G. Williams Teaching Excellence Award, Department of Surgery, University of Toronto. 2010 – 2011.
Division of General Surgery

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

PUBLICATIONS


Bickler S, Ameh E, Azzie G. Surgical Care For Children. 2011.


INVITED VISITS


Gerstle JT: Canadian Association of Paediatric Surgeons, Ottawa, Ontario, Canada, 22 September 2011. Chair: CAPS 2011 Education Session. A session designed to show attendees the fundamental principles underlying EPIQ and its potential role in paediatric surgical care. Also to examine the current importance of EBM in paediatric surgery and how paediatric surgeons can increasingly utilize this approach to the care of their patients.


Langer JC: International Pediatric Endosurgical group, San Diego, California, United States, 9 March 2012. Invited Lecturer: Difficult situations in MIS.


Langer JC: Canadian Association of Bariatric Physicians and Surgeons, Mississauga, Ontario, Canada, 9 June 2012. Invited Speaker: Pediatric Obesity Surgery: What is the Rationale?


RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED


Azzie GR: Bruce Tovee Award, General Surgery, Dept of Surgery, Faculty of Medicine, The Hospital for Sick Children. Outstanding Contribution for Undergraduate Surgical Education. [Undergraduate Education]. April 2012 – July 2012.

Division of Neurosurgery

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

PUBLICATIONS


**INVITED VISITS**


**Dennis M:** Second International Congress of Spina Bifida, Las Vegas, Nevada, United States, March 2012. Invited Lecturer: Attention: What have we learned from the SANDI Project?

**Dennis M:** Alberta Children’s Hospital, Calgary, Alberta, Canada, May 2012. Invited Lecturer: Fatal Attraction: The Tangled Relationship of Neuropsychology and IQ Tests.

**Dennis M:** Behaviour and the Developing Brain Research Symposium, Calgary, Alberta, Canada, May 2012. Lecturer: Age and neural and behavioural plasticity.

**Dennis M:** International Federation of Spina Bifida, Stockholm, Sweden, June 2012. Lecturer: Gene, brain, and behaviour in spina bifida.

**Dirks PB:** RUNN Course, Woods Hole, Massachusetts, United States, 1 November 2011. Invited Lecturer: Probing the Relationship Between Stem Cells and Brain Cancer.

**Dirks PB:** Canadian Cancer Research Conference, Toronto, Canada, 29 November 2011. Invited Lecturer: Deveoping Therapeutics for Brain Tumor Stem Cells.

**Dirks PB:** EMBO Molecular Medicine Conference, Heidelberg, Germany, 2 December 2011. Invited Lecturer: Defining the Properties of Brain Tumor Stem Cells.

**Dirks PB:** Asilomar, Niagara Falls, Ontario, Canada, 23 June 2012. Invited Lecturer: Basic Biology II: Stem Cells.

**Drake JM:** Centre for Brain and Behaviour, Toronto, Ontario, Canada, July 2011. Invited Lecturer: Surgical Management of Hydrocephalus.

**Drake JM:** Canadian Association of Neurophysiological Monitoring [CANM], Toronto, Ontario, Canada, September 2011. Invited Lecturer: Management of Lipomyelomeningocele.


**Drake JM:** India International Society of Pediatric Neurosurgery, Goa, India, October 2011. Presenter: Sudden Rapid Deterioration Following Endoscopic Third Ventriculostomy - Further Insights.


Rutka JT: WFNS Interim Meeting and Congress of Continuous Education of the Brazilian Society of Neurosurgery, Recife, Brazil, 14 September 2011. Presenter: Chiari and Syringomyelia: How to Treat.


Rutka JT: Indiana University School of Medicine, Indianapolis, Indiana United States, 21 January 2012. Robert L. Campbell Lecturer: Craniopharyngioma: The Pendulum Keeps on Swinging.


Rutka JT: Barrow Neurological Institute, Phoenix, Arizona, United States, 9 March 2012. Sally Harrington Goldwater Visiting Professor: Neurosurgical management of craniopharyngioma: The pendulum keeps swinging.


Rutka JT: CCNSF, Ottawa, Ontario, Canada, 6 June 2012. Speaker: What’s New and What you Need to Know About the Management of Paediatric Brain Tumours.


Taylor MD: Canadian Bioinformatics Workshops, Bioinformatics for Cancer Genomics, Toronto, Ontario, Canada, 30 August 2011. Invited Lecturer: One of these things is not like the others: How genomics is revolutionizing clinical cancer diagnosis.
Taylor MD: Children’s Oncology Group Biannual Meeting, Atlanta, Georgia, United States, 15 September 2011. (1) Invited Lecturer: Clinical Biomarker to Stratify Posterior Fossa Ependymoma. (2) Invited Lecturer: Nanostring based bioassay for rapid, reliable, and reproducible assignment of subgroup for clinical medulloblastoma specimens.

Taylor MD: The Canadian Cancer Research Conference, Toronto, Ontario, Canada, 30 November 2011. Invited Lecturer: One of these things is not like the others: How genomics is driving a revolution in personalized cancer diagnosis.

Taylor MD: Washington University in St Louis, St.Louis, Missouri, United States, 5 December 2011. Invited Lecturer: One of these things is not like the others: How genomics is driving a revolution in personalized cancer diagnosis. Neuro-Oncology Seminar Series.

Taylor MD: Medulloblastoma in the Mountains, Lake Tahoe, California, United States, 15 December 2011. Invited Lecturer: One of these things is not like the others: How genomics is driving a revolution in personalized cancer diagnosis.


Taylor MD: Pediatric Cancer Translational Genomics, Phoenix, Arizona, United States, 7 February 2012. Invited Lecturer: Inter and Intratumoral Heterogeneity Amongst the Medulloblastomas.


Taylor MD: Shimane University School of Medicine, Izumo, Japan, 22 May 2012. Invited Lecturer: The Dawn of a New Era: Clinically Relevant Molecular Classification of Pediatric Brain Tumors.

Taylor MD: The 4th International Symposium of Brain Tumor Pathology, Nagoya, Japan, 24 May 2012. (1) Invited Lecturer: Genome Wide Expression Profiling and Pathology in Medulloblastoma. (2) Invited Lecturer: Molecular Genetics of Medulloblastoma.


RESEARCH AND INVESTIGATIONS


Clinician Scientist Phase II Award (Renewal). Taylor M: Canadian Institutes of Health Research (CIHR). [$150,000 2012 - 2013].


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


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

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


The Role of Aberrant HGF/cMET Signaling in Medulloblastoma. Rutka JT: Canadian Cancer Society Research Institute. ($378,000 2008 - 2011).


The Role of isochromosome 17q in medulloblastoma. Rutka JT, Dirks P, Taylor MD, Tabori U: Pediatric Brain Tumor Foundation. [$1,198,800 2008 - 2011].

Understanding the brain tumorigenic process: focus on cancer stem cells. Dirks PB: National Cancer Institute of Canada (NCIC). ($564,000 2007 - 2011).


HONOURS RECEIVED

Dennis M: Distinguished Women Scholar Lectureship, University of Victoria. 2011.
Taylor MD: George-Armstrong Peters Prize, University of Toronto. 2011.

Division of Orthopaedics

Dr. B.A. Alman Professor (Division Head)
Dr. S. Hopyan Assistant Professor
Dr. A. Howard Associate Professor
Dr. S. Kelley Assistant Professor
Dr. M.L. Murnaghan Assistant Professor
Dr. U. Narayanan Associate Professor
Dr. J.H. Wedge Professor
Dr. J.G. Wright Professor
Dr. R. Zeller Associate Professor

PUBLICATIONS


Borkhoff CM, Hawker GA, Wright JG. The Time Has Come to Address the Physicians' Contribution to Gender Inequities in Health Care. Institute of Gender and Health newsletter. Innovations in Gender, Sex and Health Research: Toronto, ON, November 22-23 2011. (Essay).


INVITED VISITS


Alman BA: British Society for Matrix Biology, Newcastle, United Kingdom, 9 September 2011. Presenter: Hedgehog signaling and Gli target genes in osteoarthritis.


Alman BA: Canadian Arthritis Network, Annual Meeting., Quebec City, Quebec, Canada, 28 October 2011. Aged bone repair.

Alman BA: First Annual Caribbean Congress on Skeletal Dysplasia, San Juan, Puerto Rico, 5 November 2011. (1) Presenter: Orthopaedic meets genetics. (2) Orthopaedic approach to skeletal dysplasia management.

Alman BA: Days of Molecular Medicine 2011 Conference: Re-engineering Regenerative Medicine, Hong Kong, 10 November 2011. Presenter: Beta-catenin in myeloid lineage cells is essential for cutaneous wound repair.


Alman BA: Molecular Control of Bone Remodeling Global Center of Excellence (GCOE), Tokyo Medical & Dental University, Tokyo, Japan, 25 January 2012. Presenter: Mesenchymal progenitors: Beta-catenin from neoplasia to repair.

Alman BA: Orthopaedic Research Society Annual Meeting, San Francisco, California, United States, 6 February 2012. T-lymphocytes in osteoblast maturation during early phases of fracture repair.


Alman BA: Pediatric Orthopaedic Training Program, Rady Children’s Hospital, San Diego, California, United States, 12 – 13 April 2012. (1) David Sutherland Visiting Professorship: Bigger is Not Better: Obesity in Orthopaedics. (2) David Sutherland Visiting Professorship: Bad to the Bone: Metabolic and Genetic Bone Disease. (3) David Sutherland Visiting Professorship: From Fibromatosis to Fractures: Modulating Beta-Catenin as a New Therapeutic Approach. David Sutherland Visiting Professorship.

Alman BA: Mayo Clinic, Rochester, Minnesota, United States, 30 April 2012. (1) Visiting Professor: What is the evidence, the evidence is right. (2) Visiting Professor: Hedgehog signaling in cartilage: Chondrosarcoma and osteoarthritis.

Alman, Benjamin A.: University of Iowa, Iowa City, Iowa, United States, 8 June 2012. (1) VIP Visiting Discussant: Building Better Bones: Developmental Biology in Orthopaedics. (2) VIP Visiting Discussant: Duchene Muscular Dystrophy: A Case for Basic Science in Orthopaedics.

Alman BA: Division of Orthopaedic Surgery, Department of Surgery, McMaster University, Hamilton, Ontario, Canada, 27 June 2012. Invited Speaker: Leadership in orthopaedics.

Howard A: The Ottawa Citizen, Ottawa, Canada, 1 March 2012. Invited Speaker: Traffic countdown signal not helping to reduce.

Kelley S: Canadian Orthopaedic Association Annual Meeting, St John’s, Canada, July 2011. Invited Lecturer: (1) Update on the management of DDH. Paediatric Hip Symposium. (2) A case of Congenital Femoral Deficiency.


Murnaghan ML: Association for Medical Education Europe, Austria, August 2011. Presenter: Getting Up the Next Morning: Surgeons reactions to adverse events in the operating room.


Narayanan U: Scoliosis Research Society, Louisville, Kentucky, United States, 15 September 2011. Principal Investigator: The CPCHILD<sup>®</sup> Questionnaire is Sensitive to Change Following Surgery for Scoliosis in Children with Cerebral Palsy.


Narayanan U: Department of Physical Medicine & Rehabilitation, Glenrose Rehabilitation Hospital, Edmonton, Alberta, Canada, 17 November 2011. Visiting Professor: The Hip in Cerebral Palsy (CP). The ins and outs of Hip Instability.


Narayanan U: Department of Orthopaedic Surgery, University of Alberta, Edmonton, Alberta, Canada, 18 November 2011. Visiting Professor: The Hip in Cerebral Palsy University of Alberta.


Wright JG: Prague, Czech Republic, 6 September 2011. Keynote Speaker: SICOT XXV Triennial World Congress. Evidence-Based Orthopaedics, What Does That Actually Mean?


RESEARCH AND INVESTIGATIONS


Can skin derived precursor cells regenerate limb bud defects in the chick embryo? Hopyan S: Hospital for Sick Children, Perioperative Services Innovation Grant. ($50,000 2011).


Prophylactic treatment of dermal scarring. Alman B: MaRS Innovation, MaRS Innovation POP Funding Agreement. ($45,000 2011 - 2012).


Traffic and Road Injury Prevention (TRIP) Program for Canadian Children. Snowdon A, Howard A: Canadian Institutes of Health Research (CIHR), Transportation Safety Research Program for Canadian. ($1,600,000 2010 - 2015).

HONOURS RECEIVED

Narayanan U: Dr. John Whittaker Memorial Cerebral Palsy Award, Bloorview Research Institute, Toronto, Ontario, Canada. July 2011.

Division of Plastic and Reconstructive Surgery

Dr. G.H. Borschel Assistant Professor
Dr. H.M. Clarke Professor
Dr. J.S. Fish Associate Professor
Dr. D. Fisher Associate Professor
Dr. C. Forrest Professor (Division Head)
Dr. T. Gordon Professor
Dr. C.Y. Pang Professor
Dr. J. Phillips Associate Professor
Dr. R. Zuker Professor

PUBLICATIONS


INVITED VISITS


Clarke H: Mayo Clinic Skills Laboratory. Advances in Brachial Plexus Reconstruction: A Surgical Skills Course, Rochester, Minnesota, United States, 20 April 2012. (1) To operate or not to operate (Obstetrical) (2) Planning surgery (Obstetrical) (3) Cable graft fabrication with fibrin glue (4) Stump the professor.


Fish JS: Canadian Special Interest Group - American Burn Association, Seattle, Washington, United States, April 2012. Presenter: The Impact of Time on Neuropsychological Functioning in Electrical Injury: Preliminary Results From a Longitudinal Study.

Fisher D: University of Alberta, Edmonton, Alberta, Canada, 16 February 2012. Invited Speaker: Cleft lip and palate.


Zuker R: St. James School of Medicine, Department of Embryology, Anguilla, BWI, 14-21 February 2012. (1) Invited Lecturer: Conjoined Twins - Embryology, Clinical Features and Surgical Separation. Common Embryological Events and the Reconstructive Surgeon. (2) Visiting Professor: Cleft Lip and Palate - Embryology, Etiology, Clinical Manifestations and Multidisciplinary Management.

Zuker R: The Hughes Medical Centre, Anguilla, BWI, 20 February 2012. Invited Lecturer: Cleft Lip and Palate - Embryology, Clinical Features and Surgical Management.

Zuker R: Harvard University Plastic Surgery Grand Rounds, Boston, Massachusetts, United States, 18 April 2012. Invited Lecturer: (1) Keys to Success in Facial Reanimation Surgery. (2) Lower Extremity Transplantation in Children.

Zuker R: Guwahati Comprehensive Cleft Care Centre, Guwahati, Assam, India, 4 May 2012. Invited Lecturer: (1) The Cleft Lip and Palate Program at The Hospital for Sick Children. (2) The Fisher Lip Repair - Pros and Cons.

Zuker R: Canadian Society of Plastic Surgeons Sixty Sixth Annual Meeting, Toronto, Ontario, Canada, 6 June 2012. Invited Speaker: Canadian Initiatives in Composite Tissue Allotransplantation.


RESEARCH AND INVESTIGATION


Cleft Q: Development of a patient reported outcome measure for cleft lip and/or palate. Forrest C: PSI. ($19,000 2010 - 2011).

CLEFT-Q: Development of a patient-reported outcome (PRO) measure for cleft lip and/or palate (CLP). Wong K, Klassen A, Forrest C: Canadian Society of Plastic Surgeons Outcome Research Grant. [$10,000 2012 - 2013].


Infrastructure Operating Funds (IOF); Nerve Research Centre at the Hospital for Sick Children in Toronto. Borschel G, Gordon T: Canada Foundation for Innovation [New Opportunities Fund], Infrastructure Operating Funds (IOF). [$47,574 2011 - 2012].


HONOURS RECEIVED


Division of Urology

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

PUBLICATIONS


Koyle MA. Realities in Modern Day Understanding of Vesicoureteral Reflux and Childhood UTI. Dialogues in Pediatric Urology: Vol. 32, Number 6, Oct 2011.


Lorenzo, AJ. To V(CUG) or Not To V(CUG)-Can We Answer the Question? Journal of Urology: 187(1):11-12, Jan 2012.


INVITED VISITS

Bägli DJ: Section on Urology Annual Meeting, Boston, Massachusetts, United States, October 2011. Risk Factors for Urethro-Cutaneous Fistula (UCF) Formation Post-Tubularized Incised Plate (TIP) Repair: Comprehensive Analysis of 1098 Patients with Distal and Midshaft Hypospadias.


Koyle MA: Children’s Medical Center and University of Texas Southwestern, Dallas, Texas, United States, February 2012. Invited Speaker: Live Surgery Workshop for Hypospadias Repair.

Koyle MA: Dalhousie University Department of Urology, Halifax, Nova Scotia, Canada, February 2012. Visiting Professor: Open Minimally Invasive Pediatric Urological Surgery- Is it Relevant in 2012?


Lorenzo AJ: Pediatric Urology Junior Organization, Atlanta, Georgia, United States, 17 June 2012. Presenter: What can transplant surgery teach us about management of ectopic ureters in incontinent children?

Pippi Salle JL: Rishita Peterson, Lunch and Learn, Toronto, Ontario, Canada, 20 July 2011. Invited Speaker: Kidney and Bladder Reconstructions: What are all these tubes there for?


Pippi Salle JL: Dallas Children’s Hospital, Dallas, Texas, United States, 24 February 2012. Visiting Surgeon: International Course on Hypospadias.


RESEARCH AND INVESTIGATIONS


Uropathogenic E.coli effects on the uroepithelial epigenome as a marker for UTI propensity and recurrence. Bagli DJ, Tolg C: Physicians Services Incorporated Foundation (The PSI). ($180,000 USD 2010 - 2012).


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HONOURS RECEIVED

Bägli DJ: First Prize, Ontario Preclinical Imaging Constortium. February 2012.

Bägli DJ: Post-Doctoral Fellowship Award for Urology Research, Hospital for Sick Children. 2011 - 2012.

Farhat WA: Award for Teaching Excellence, Urology, Dept of Surgery, Faculty of Medicine, Department of Pediatrics, University of Toronto, Hospital for Sick Children. (Postgraduate MD). 2011 - 2012.


Koyle MA: Award for Teaching Excellence, Urology, Dept of Surgery, Faculty of Medicine, Department of Pediatrics, University of Toronto, Hospital for Sick Children. (Postgraduate MD). 2011 - 2012.

Mount Sinai Hospital

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

HEADS OF DIVISION

Dr. C. Swallow General Surgery
Dr. J.S. Wunder Orthopaedic Surgery
Dr. K. Jarvi Urology

DIVISION OF GENERAL SURGERY

Helen MacRae was promoted to Professor in the Department of Surgery at the University of Toronto. Anand Govindarajan and Erin Kennedy joined the Division of General Surgery in July 2011, both as Surgeons Investigator, at the rank of Assistant Professor. The division has been very productive this past year, having published over 52 articles, along with speaking internationally. Research funding has come from the American Society of Colon and Rectal Surgeons, Canadian Institutes of Health Research, Public Health Agency of Canada, Canadian Radiation Oncology Foundation/Sano-aventis, Canadian Institute for Photonic Innovations, Canadian Cancer Society Research Institute Innovation Grants, Cancer Care Ontario, Cancer Imaging Network of Ontario, and Ontario Institute of Cancer Research.

Finally, Robin McLeod became a life member of Colorectal Surgical Society of Australia and New Zealand in 2011 and also received the Best Paper Award from the Canadian Society of Colon and Rectal Surgeons, Canada in September 2011.

DIVISION OF ORTHOPAEDICS

Dr. Jay Wunder became the President of the Connective Tissue Oncology Society (CTOS), the foremost group for research, and treatment of bone and soft tissue tumors including sarcomas in the world. Paul Kuzy kr joined the division as Surgeon-Investigator, at the rank of Assistant Professor in October 2011. Seventy-eight articles were accepted and published in journals. Research funding was received from Canadian Institutes of Health Research, Canadian Arthritis Network, Canadian Orthopaedic Foundation, and Stryker Canada.

David Backstein was selected as a member of the American Association of Hip and Knee Surgeons in July 2011, awarded the Best Post Presentation, Runner Up at The Canadian Association for Medical Education, in Toronto, Ontario, in July 2011, and received the Orthopaedic Chair’s Teaching Award, from the Department of Surgery, University of Toronto, 2011 - 2012. Peter Ferguson also received the John Ruedy Award for Innovation in Medical Education, Orthopaedic Surgery from the Association of Faculties of Medicine Canada; the 2012 Award for Excellence in Postgraduate Medical Education - Development and Innovation, Postgraduate Medical Education, Toronto, Ontario, Canada, honoring him for the development and administration of Competency Based Curriculum in Orthopaedics. He was also presented with the Bruce Tovee Postgraduate Teaching Award, Orthopaedic Surgery, from the Department of Surgery, Faculty of Medicine, University of Toronto. This award celebrates an outstanding postgraduate teacher in the Department of Surgery.

DIVISION OF UROLOGY

Seventy papers were published for the year 2011-2012. Research funding was awarded from National Institutes of Health, Ontario Institute for Cancer Research, McLaughlin Centre, University of Toronto, Canadian Cancer Society, Foundation of Canada/Prostate Cancer Canada, Canadian Cancer Society Research Institute, and Institut Merieux. Alexandre Zlotta received the Basic Science Research Award from the University of Toronto at the 2011 Charles J. Robson Research Day; the EAU Platinum Award, and the Best Poster Award 2012, both from the European Association of Urology/ European Urology, in Paris, France.
Division of General Surgery

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

PUBLICATIONS


Bellolio F, Cohen Z, MacRae H, Jaffer N, O’Connor B, Huang H, McLeod R. Patients with ileocolic Crohn’s disease and septic complications are more likely to require a temporary stoma but have good postoperative outcomes. Diseases of the Colon and Rectum: 2011 54:5.


INVITED VISITS


Cohen Z: University of Alberta, Calgary, Alberta, Canada, June 2012. Invited Lecturer: Controversial issues in IBD.


Easson AM: Ontario Association of General Surgery, Toronto, Ontario, Canada, 29 October 2011. Invited Speaker: Surgery and Palliative Care: Care when there is no cure.


Kennedy E: Cleveland Clinic, Cleveland, Ohio, USA, Aug 2011. Colorectal Cancer Consortium.


MacRae HM: ASCRS 2012, San Antonio, Texas, United States, June 2012. Invited Speaker: Teaching Technical Skills: From Simulators to the OR.


McLeod RS: Staten Island University Hospital, New York, United States, February 2012. Invited Lecturer: (1) Surgery for Ulcerative Colitis. (2) Translating Evidence into Practice.


McLeod RS: SUNY Stonybrook University, Long Island, New York, United States, March 2012. Invited Lecturer: (1) Prevention of Recurrence following Surgery for Crohn’s Disease. (2) Can we Practice Evidence Based Medicine?

McLeod RS: Beth Isreal, Deaconess Medical Centre, Boston, Massachusetts, United States, March 2012. Invited Lecturer: Translating Evidence into Practice.

RESEARCH AND INVESTIGATIONS

A new assessment tool for colorectal fellows: the colorectal objective structured assessment of technical skill (COSATS). de Montbrun SL, MacRae HM: The Operative Competency Evaluation Committee of the American Society of Colon and Rectal Surgeons (ASCRS). [$70,000 USD 2010 - 2011].


Establishing a national agenda and research network for shared decision making in oncology in Canada. Kennedy ED, O’Brien MA, Gagliardi A: Canadian Institutes of Health Research ($20,000 2011-2012).

Establishing validity, reliability, feasibility and standard setting of the colorectal objective assessment of technical skill (COSATS). de Montbrun SL, MacRae HM: The Operative Competency Evaluation Committee of the American Society of Colon and Rectal Surgeons (ASCRS). ($100,000 USD 2010-2012).


HONOURS RECEIVED

McLeod RS: Life Member, Colorectal Surgical Society of Australia and New Zealand. 2011.

McLeod RS: Best Paper, Canadian Society of Colon and Rectal Surgeons, Canada. September 2011.
Division of Orthopaedics

Dr. D. Backstein  
Associate Professor

Dr. R.S. Bell  
Professor

Dr. P.C. Ferguson  
Associate Professor

Dr. A.E. Gross  
Professor

Dr. P. Kuzyk  
Assistant Professor

Dr. O. Safir  
Assistant Professor

Dr. J.S. Theodoropoulos  
Lecturer

Dr. T. Willett  
Lecturer

Dr. J.S. Wunder  
Professor [Division Head]

PUBLICATIONS


Garbuz DS, Masri BA, Duncan CP, Greidanus NV, Bohm ER, Petrak MJ, Della Valle CJ, Gross AE. The Frank Stinchfield Award - Dislocation in Revision THA - Do large heads (36 and 40mm) result in reduced dislocation rates in a randomized clinical trial. Clinical Orthopaedics and Related Research: 2012 Feb; 467(2):351-356.


Sternheim A, Backstein D, Kuzyk PR, Goshua G, Berkovich Y, Safir O, Gross AE. Porous metal revision shells for management of contained acetabular bone defects at a mean follow-up of six years: A comparison between up to 50% bleeding host bone contact and more than 50% contact. Journal of Bone and Joint Surgery British: 2012 Feb; 94(2):158-162.


INVITED VISITS

Abstracts and Other Papers


Ferguson P: Canadian Orthopaedic Association, St. John’s, Canada, July 2011. Presenter: Early results of tumor endoprosthetic reconstruction using the restoration stem.


Ferguson P: Professional Association of Interns and Residents of Ontario, Ontario, Canada, 2 March 2012. Invited Speaker: At the Precipice of Radical Curricular Reform in Orthopaedic Training – Jump or Go Back?


Ferguson P: Canadian Postgraduate Deans Annual Meeting, Banff, Alberta, Canada, 13 April 2012. Invited Speaker: A Pilot Competency Based Curriculum in Orthopaedic Surgery – Highlights of the first 3 years.

Ferguson P: Queen’s University PGME Summit, Kingston, Ontario, Canada, 2 May 2012. Invited Speaker: A Pilot Competency Based Curriculum in Orthopaedic Surgery – Highlights of the first 3 years.


Willett T: 2011 World Congress on Osteoarthritis, San Diego, California, United States, September 2011. Presenter: A New Model to Study the Effects of Advanced Glycation Endproducts on the Progression of Spontaneous Osteoarthritis.


Wunder, Jay Steven: American Academy of Orthopaedic surgeons, San Francisco, California, United States, 10 February 2012. Invited Lecturer: Surgical management of incompletely excised STS.

RESEARCH AND INVESTIGATIONS

Peer-Reviewed Grants

A Murine Model of Adynamic Bone Disease. 120,000CAD /year for 4 years. Grynpas M, Alman B, Willett T: Canadian Institutes of Health Research (CIHR), Operating Grant. ($480,000 2010 - 2014).


Comparison of a Retrograde Intramedullary Nail, Polyaxial Locking Plate, and Intramedullary Fibular Strut Allograft with Polyaxial Locking Plate for Fixation of Periprosthetic Distal Femur Fracture Post Total Knee Arthroplasty. Kuzyk P, Backstein D, Willett T: Orthopaedic Research and Education Foundation, Young Investigator Grant. ($40,000 USD 2012).


HONOURS RECEIVED

Backstein D: Selected as Member, American Association of Hip and Knee Surgeons. July 2011

Backstein D: Best Post Presentation, Runner Up, The Canadian Association for Medical Education, Toronto, Ontario, Canada. July 2011

Backstein D: Orthopaedic Chair’s Teaching Award, Orthopaedic, Department of Surgery, University of Toronto, Division of Orthopaedic Surgery. 2011 - 2012

Ferguson P: John Ruedy Award for Innovation in Medical Education, Orthopaedic Surgery, Dept of Surgery, Faculty of Medicine, Association of Faculties of Medicine Canada. (Postgraduate MD).

Ferguson P: 2012 Award for Excellence in Postgraduate Medical Education - Development and Innovation, Orthopaedic Surgery, Dept of Surgery, Faculty of Medicine, Faculty of Medicine Postgraduate Medical Education, Toronto, Ontario, Canada. Selected for development and administration of Competency Based Curriculum in Orthopaedics. 2012

Ferguson P: Bruce Tovee Postgraduate Teaching Award, Orthopaedic Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto Department of Surgery. Outstanding postgraduate teacher in Department of Surgery. 2012

Wunder J: President of the Connective Tissue Oncology Society (CTOS).
Division of Plastic and Reconstructive Surgery

Dr. H.N. McKee  Professor

PUBLICATIONS


Division of Urology

Dr. E.D. Grober  Assistant Professor
Dr. K. Jarvi  Professor (Division Head)
Dr. C.K. Lo  Associate Professor
Dr. A. Zlotta  Professor

PUBLICATIONS

Journal Articles


**INVITED VISITS**


Jarvi K: EMD Serono, King City, Ontario, Canada, 2 June 2012. Invited Lecturer: Work-up of male infertility. refine, GREI (Gynecologic Reproductive Endocrinology and Infertility) Fellows’ Review & Development Program.

Jarvi K: Canadian Urological Association, Banff, Alberta, Canada, 25 June 2012. Invited Lecturer:
Male Infertility: The Canary in the Coal Mine

Male Infertility Is a Marker for Men’s Health: Past, Present and Future.

Zlotta A: European Association of Urology (EAU), Vienna, Austria, 2011. Invited Speaker: Could screening for bladder cancer produce a stage migration towards detection of non-muscle-invasive cancers?

Zlotta A: Clinica Alemana, Santiago, Chile, 01 August 2011. Invited Professor.


Zlotta A: American Urological Association (AUA), Atlanta, Georgia, United States, 15 May 2012. Moderator: Poster Session: Prostate Cancer Localized VII.

RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED


This year has been very challenging in the Department of Surgery here at St. Joseph’s Health Centre. Increasing costs of technology and frozen hospital budgets have made it difficult to continue to provide “state of the art” surgical care.

There were no new recruitments or retirement in our department this year. However, because of workload issues in Orthopedics we were given permission to hire a new orthopedic surgeon. The search process is ongoing.

Dr Smith finished his 10 year term as Chief of Surgery and Medical Program Director in March. He will stay on as interim until a new Chief is selected.

The Department has been very successful in achieving our targets for funded cases in Orthopedics, Cancer care, and Bariatrics. In Hepatobiliary surgery our group was awarded an extra 30 cases by CCO because of increasing volumes. In Orthopedics the hospital paid for cases above the number allocated by the Ministry in order to help deal with excessive wait times.

The surgeons of the surgical program look forward to the future where we will continue to focus on excellence of clinical care, quality, and teaching.
Division of General Surgery

Dr. C. Compeau  Assistant Professor *(Division Head)*
Dr. T.A. Harmantas  Assistant Professor
Dr. R.S. Hart  Lecturer
Dr. S. Jayaraman  Assistant Professor
Dr. D.R. Lindsay  Lecturer
Dr. L.C. Smith  Associate Professor
Dr. P.A. Sullivan  Lecturer

**INVITED VISITS:**

Smith, L: Current Management Ventral Hernias, Southlake Hospital, February 28, 2012;

Division of Orthopaedics

Dr. W.A. ElMaraghy  Assistant Professor
Dr. M. Kliman  Lecturer
Dr. M. Roscoe  Assistant Professor
Dr. G. Vincent  Assistant Professor *(Division Head)*
Dr. M. Wood  Lecturer

**PUBLICATIONS:**


**HONOURS RECEIVED**

Division of Plastic Surgery and Reconstructive Surgery

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

**PUBLICATIONS:**


**INVITED VISITS:**


**AWARDS:**

Wanzel KR: Arnis Freiberg Award for Best Clinical Teacher (Division of Plastic Surgery, University of Toronto). 2011

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Division of Thoracic Surgery

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

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Division of Urology

Dr. A. Chawla  Lecturer
Dr. U. Jain  Lecturer (Division Head)
Dr. A. Marcuzzi  Lecturer
Dr. A. McLean  Lecturer
The 2011-2012 year was a busy one at St. Michael’s Hospital. The announcement of a new 17 floor state-of-the-art Patient Care Tower was enthusiastically received by all at St. Michael’s Hospital, and especially by the members of our Department. An expanded "state-of-the-art" Emergency Room, a refurbished Med-Surg ICU and the building of new operating rooms including 5 hybrid rooms will enhance our ability to provide excellent care to our patients.

After much anticipation, Mr. Li Ka-shing attended the official opening of the Li Ka Shing Knowledge Institute made up of the Keenan Research Centre and the Li Ka Shing International Healthcare and Education Centre. He had the opportunity to see firsthand, his vision of supporting research, education and patient care. Several of our Department members moved their research groups into the new facility and are reaping the benefits of enhanced collaborations.

There have been a few changes and new faces in our seven surgical divisions. Dr. Kenneth Pace was appointed to the position as Division Head, Division of Urology on March 1, 2012. He is following in the footsteps of Dr. John Honey who stepped down from the position after more than a decade in the position. Many thanks to John for his excellent leadership, including his ability to attract funds for the first surgical robot at the University. We look forward to Dr. Pace’s contributions in his new role. Dr. Jason Lee joined the Division of Urology in January 2012. He completed a Minimally Invasive Urology Surgery Fellowship at the Surgical Education Centre, University of California after graduating from the University of Toronto. Dr. Lee’s research focus is in education, particularly in the field of simulation and his clinical work focuses on endourology, peritoneal dialysis access and robotics.

Dr. Mark Wheatcroft joined the Division of Vascular Surgery in June 2012 following his training in the United Kingdom. His clinical focus is endovascular therapy with a research interest in the arterial response to injury, specifically neointimal hyperplasia. Dr. Michael Ameli officially retired in June. Dr. Ameli held the role of Division Head in Vascular Surgery at the Wellesley Hospital from 1991-1998 and again from 1998-2009 after the amalgamation of the Wellesley Hospital to St. Michael’s Hospital. Dr. Lossing also announced he will be taking on a position at Southlake Hospital in September 2012. Despite his new location, he will continue to collaborate closely with the Vascular Surgery Division at the hospital.

Our Annual Physician Education Awards ceremony was held in June. Dr. Michael Cusimano was awarded the Donald J. Currie Award for undergraduate teaching; Dr. Vern Campbell won the William Horsey Award for his contributions to postgraduate teaching, and Dr. John Marshall won the Jameel Ali Award for Continuing Education in Surgery. The Squires Hyland Trust Dinner was hosted by our Department this year. Dr. Richard Reznick, Dean of Queen’s University and former Chair of our Department was the Plenary lecturer. Dr. Nancy Baxter was awarded the James Waddell Mentorship Award for her extraordinary contribution to the mentorship of junior faculty members.

Internationally, Dr. Lee Errett has been recognized for his work with China through the awarding of an Honorary Chair at the Shandong Cardiac Research Centre and also an Honorary Professorship at the Second Military University in Shanghai. Dr. Emil Schemitsch held the position of President of the Canadian Orthopedics Association and spent much of his year representing our country at conferences around the world.

Dr. Subodh Verma and Dr. Avery Nathens successfully renewed their Canada Research Chairs. Dr. John Marshall continued to play an important role in clinical research in the area of critical care through his position as Chair of the Canadian Critical Care Trials Group.
Division of Cardiac Surgery

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

PUBLICATIONS


ST. MICHAEL'S HOSPITAL


### INVITED VISITS


**Errett LE:** The Shandong Engineering Research Center for Heart Transplant and Material, Shandong Provincial Qianfoshan Hospital, Jinan, Shandong, China, 16 November 2011. Invited Lecturer: Percutaneous AV replacement (Hybrid Procedure).

**Errett LE:** The Toronto Lawn & Tennis Club with Heart and Stroke Foundation, Toronto, Ontario, Canada, 4 April 2012. Invited Speaker: CAD: A different perspective.

**Latter DA:** 1er Simposio Cirugia Cardiovascular y Cardiologia, Caracas, Venezuela, Bolivarian Republic Of, 28 October 2011. Invited Lecturer: Mitral Valve Surgery.

**Latter DA:** Rouge Valley Hospital, Toronto, Ontario, Canada, 20 December 2011. Invited Lecturer: Mitral Valve Repair Lecture on Mitral Valve Repair to Cardiologist at Rouge Valley Health System.

**Peterson M:** Winnipeg International Heart Conference, Winnipeg, Manitoba, Canada, 15 October 2011. Invited Speaker: Transcatheter Aortic Valve Replacement: Is the Technology Ready for Prime Time?

**Peterson M:** Rouge Valley Centenary: Cardiology Grand Rounds, Scarborough, Ontario, Canada, 24 January 2012. Invited Speaker: Transcatheter Aortic Valve Replacement: Is the Technology Ready for Prime Time?

**Peterson M:** Heart School 2011-2012, Scarborough, Ontario, Canada, 3 February 2012. Speaker: “TEVAR & Hybrid Techniques” & Sas “advancements in hybrid techniques”.

**Peterson M:** Lakeridge Health Oshawa, Oshawa, Ontario, Canada, 21 February 2012. Invited Speaker: New Frontiers in Cardiovascular Surgery: Transcatheter Aortic Valve Implantation and Endovascular Aortic Surgery.

**Peterson M:** The Scarborough Hospital, Scarborough, Ontario, Canada, 2 March 2012. Invited Speaker: New Frontiers in Cardiovascular Surgery: Transcatheter Aortic Valve Implantation and Endovascular Aortic Surgery.

**Peterson M:** Journal Club, St. Mary’s Hospital, Cambridge, Ontario, Canada, 19 April 2012. Invited Speaker: Acute Aortic Syndromes: What we don’t know will hurt them.

**Peterson M:** Aortic Surgery Symposium, New York, New York, United States, 26 April 2012. Presenter: Outcomes Following Repair for Acute Type A Dissection are Independent of Cannulation Strategy: Femoral vs. Right Axillary Artery.

**Verma S:** Canadian Cardiovascular Congress, Vancouver, British Columbia, Canada, 2011. Cardiac-specific disruption of BRCA2 results in higher doxorubicin sensitivity and heart failure with advanced age.

### RESEARCH AND INVESTIGATIONS

**DJ-1 in Signalling in Human Cardiac Ischemia Reperfusion. Yanagawa B, Verma S: Physicians Services Incorporated Foundation (The) [PSI]. $20,000 2010 –2012.**

Li Ka Shing Collaborative program. Verma S, Slutsky A, Mamdani M: Li Ka Shing Collaborative program. ($3,000,000 2009 – 2012).

Role of the Tumor Suppressor Gene BRCA1 in Adverse Cardiac Remodeling. Verma S, Parker TG: Canadian Institutes of Health Research (CIHR), Operating Grant. ($330,367 2009 – 2012).


HONOURS RECEIVED

Verma S: Male Professional of the Year Award, Indo-Canada Chamber of Commerce, Canada, 2011.

Division of General Surgery

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

PUBLICATIONS


INVITED VISITS

Abstracts and Other Papers


Ali J: Trauma Association of Canada, India, 12 April 2012. Visiting Professor: Rural Trauma Team Development (RTTDC) Course in India.


Grantcharov T: 24th International Course on Therapeutic Endoscopy, Toronto, Ontario, Canada, 14 October 2011. Surgical management of morbid obesity.


Kuebler W: European Conference for Microcirculation, Munich, Germany, October 2011. (1) Regulation of vascular permeability by sphingolipids. (2) TRPC and TRPV channels as critical regulators of vascular permeability.

Kuebler W: Ludwig-Boltzmann-Institute for Pulmonary Vascular Research, Graz, Austria, November 2011. Pulmonary hypertension with left heart disease - pathomechanisms and treatment strategies.


Marshall JC: XIV Foro Internacional de Medicina Crítica, Mexico City, Mexico, 8-10 July 2011. Invited Speaker: (1) PIRO: A staging system for critical illness. (2) Resuscitation and deresuscitation. (3) Damage control for the intensivist.


Marshall JC: 24th Annual Congress, European Society of Intensive Care Medicine, Berlin, Germany, 1-5 October 2011. Invited Speaker: (1) Building a research team. (2) Grant writing: What you should know. (3) The concept of run-in trials. (4) Care of the septic patient is best advanced by targeting the doctor.


Nathens AB: Western States Trauma Leadership Forum, Park City, Utah, United States, August 2011. Invited Speaker: ACS Trauma Quality Improvement Program.

Nathens AB: Japan Trauma DataBank (International Surgical Week), Tokyo, Japan, August 2011. Invited Speaker: Performance indicators in NTDB and TQIP.

Nathens AB: Department of Surgery, University of New Mexico, Albuquerque, New Mexico, United States, September 2011. Visiting Professor: Trauma Quality Improvement.


Nathens AB: Department of Surgery, Memorial University, St. John’s, Canada, November 2011. Invited Speaker: Current Concepts in Intraabdominal Infection.

Nathens AB: American Burn Association - Burn Quality Consensus Conference, District of Columbia, United States, 7 February 2012. Invited Speaker: American College of Surgeons Trauma Quality Improvement Program.


Nathens AB: CBC Radio One - Ontario Today, Toronto, Ontario, Canada, 16 May 2012. Interview: Ornge under fire after two deaths linked to delay.

Nathens AB: Toronto Star, Toronto, Ontario, Canada, 9 June 2012. Media interview: More patients should be sent to trauma centres, study finds.

Nathens AB: Toronto Star, Toronto, Ontario, Canada, 11 June 2012. Media interview: Ontario hospitals and EMS have what it takes when minutes matter.

Nathens AB: CBC Radio One, Toronto, Ontario, Canada, 13 June 2012. Presenter: Ontario Today Close enough to hospital if Ornge can’t get you there?


Rotstein O: Canadian Association of Gastroenterology and Canadian Association for the Study of the Liver, Montreal, Quebec, Canada, 24 February 2012. Invited Speaker: What’s New in Acute Pancreatitis- Treatment, Nutrition, Genetics. CAGS/ CASL Postgraduate Course.

Rotstein O: Dalhousie University, Department of Surgery Research, Halifax, Nova Scotia, Canada, April 2012. Dr. Gordon Bethune Visiting Professor: Clinician Scientists: On the Verge of Extinction or on the Road to Recovery.

RESEARCH AND INVESTIGATIONS


Development of strategies to identify, analyze and prevent errors in the Operating Room - an interprofessional approach to enhancing technical and non-technical performance and improving patient safety. Grantcharov T: St. Michael's Hospital Innovation Fund. ($100,000 2012).


From Data to Daily Practice: An Integrative Approach to Improving Trauma Centre Access in Rural Regions: Haas B, Gagliardi A, Nathens A: Canadian Institutes of Health Research (CIHR), Fellowship. ($110,000 2010 –2012).


Hand Hygiene Compliance. The Division of General Internal Medicine, Department of Risk Management & Quality Improvement and the Knowledge Translation Program. Kitto S, Yeung E, Reeves S. St. Michael’s Hospital. ($22,000 2011 – 2012).


Molecular and cellular mechanisms underlying chronic kidney disease. Szaszi K: Ontario Ministry of Research and Innovation [OMR], Early Researcher Award. [$100,000 2010 –2015].


Regulation of vascular permeability by sphingolipids. Kuebler W, Uhlig S: German Research Foundation (Deutsche Forschungsgemeinschaft, Germany). (€145,000 2010 – 2013).


HONOURS RECEIVED


Grantcharov T: Queen Elizabeth II Diamond Jubilee Medal, Governor General of Canada, February 2012.

Grantcharov T: George Armstrong-Peters Prize, University of Toronto. May 2012.

Kuebler W: Fellowship, Mentor, Awardee: H. Ranke. International Academy of Life Sciences, Hannover, Germany, 2010 – present

Kuebler W: Pfizer Sponsorship Award for Young Investigators in Pulmonary Hypertension, Mentor, Awardee Name: J. Hoffmann. Pfizer, Munich, awarded at the 5th PH UP2DATE conference, 2011.

Kuebler W: Fellowship, Mentor, Awardee: X. Lei. Kaiserin-Friedrich Foundation, Berlin, Germany, 2011- present


Kuebler W: Fellowship [CREMS Research Scholar Program], Mentor, Awardee Name: C. Tang. University of Toronto, 2010- present

Marshall JC: Jameel Ali Award in Continuing Medical Education, Dept of Surgery, Faculty of Medicine, St. Michael’s Hospital. June 2012.


Nathens AB: Arthur Award for most media hits, St. Michael’s Hospital Li Ka Shing Knowledge Institute. 2011

Rotstein O: Honoured with the Ori Rotstein Lectureship in Knowledge Translation, Institute of Medical Science, University of Toronto, Ontario, Canada, 2011.


Szaszki K: Early Researcher Award, Ontario Ministry of Research and Innovation, Canada. Salary for lab members. September 2010 – August 2015.

Division of Neurosurgery

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

PUBLICATIONS


INVITED VISITS


**Cusimano MD**: International Society of Pituitary Surgeons, Montreal, Quebec, Canada, 22 June 2012. Invited Speaker: The Binasal Endoscopic Approach for Giant and Large Pituitary Adenomas: A Comparison to Microscopic Transphenoidal and Craniotomy Approaches.


**Spears J**: Rouge Valley Centenary Hospital, Toronto, Ontario, Canada, 27 April 2012. Invited Speaker: C.E.LHIN @ RVHS Emergency Medicine & Critical Care Grand Rounds. Optimizing Quality Care of the Neurosurgical Patient.

**Spears J**: North York General Hospital, Toronto, Ontario, Canada, 8 May 2012. Invited Speaker: North York General Medical Rounds. Carotid Revascularization and New aneurysm treatments.
**RESEARCH AND INVESTIGATIONS**


Improving outcome of patients with subarachnoid hemorrhage. *Macdonald RL.* Province of Ontario, St. Michael’s Hospital Medical Services Association and Inno. ($22,000 2011 - 2012).


The role of prostacyclins in the survival of glioblastoma brain tumor stem cells. *Das S.* b.r.a.i.n.child, Research Award. ($80,000 2011 - 2013).

The role of the epithelial-mesenchymal transition in the maintenance of stem-cell identity in glioblastoma brain tumor stem cells. *Das S.* b.r.a.i.n.child, Research Award. ($44,100 2011 - 2013).

Trauma System Development in Canada: Overcoming the challenges of geography through an evaluation of structure and process. *Nathens A, Gagliardi A, Pong R, Rubenfeld Q, Schauman N.* Canadian Institutes of Health Research (CIHR). ($1,990,000 2010 - 2015).

Validation of non-invasive rapid eye movements measurement as screening tool for mild traumatic brain injury. *Cusimano M.* Canadian Institutes of Health Research (CIHR). ($250,140 2012 - 2015).

**HONOURS RECEIVED**

*Cusimano MD:* The Donald J. Currie Undergraduate Teaching Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, St. Michael’s Hospital. July 2011 - June 2012.


### Division of Orthopaedics

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

### PUBLICATIONS


**INVITED VISITS**


Bogoch ER: Canadian Orthopaedic Resident Review in Trauma (CORR-Trauma), Mississauga, Ontario, Canada, 25 November 2011. Speaker: Top Ten Things You Need to Know About Osteoporosis.


Bogoch ER: Professor Park, Ye Soo, Guri Hospital, Hanyang Univ College of Medicine, Seoul, Korea, Republic Of, 13 December 2011. Managing Fracture Secondary Prevention Programs: Lessons Learned Along the Way.


Bogoch ER: Developing Diagnoses and Implementing Achievable Treatment Goals: Today’s Science Directs Tomorrow’s Therapy, Vienna, Austria, 6 May 2012. A systematic approach to secondary fracture prevention: Workshop.


Daniels T: AOFAS summer meeting, Keystone, Colorado, United States, 13 July 2011. (1) Coordinator and Moderator: Research forum. (2) Moderator: Symposium on peritalar instability: what if my fracture treatment leads to an unbalanced hindfoot?


Daniels T: XLVII Congreso Chileno de Ortopedia y Traumatologia, Santiago, Chile, 16-17 November 2011. Distinguished Speaker: (1) Surgical options for hallux valgus deformities. (2) Ankle fusion vs TAR. (3) Ankle medial and subtalar instability. (4) Total Ankle Replacement in cavovarus foot. (5) TAR in adult acquired flat foot. (6) Surgical treatment in chronic Achilles tendinitis. (7) Treatment of the posterior tibial tendon dysfunction.

Daniels T: CORR-Recon, Toronto, Ontario, Canada, 19 January 2012. (1) Course Director [Foot and Ankle Session]: Canadian orthopaedic resident review in reconstructive surgery [CORR-Recon]. (2) Invited Speaker: Canadian orthopaedic resident review in reconstructive surgery [CORR-Recon]. (3) Session Leader: Canadian orthopaedic resident review in reconstructive surgery [CORR-Recon]


McKee M: Canadian Orthopaedic Association, St. John’s, Newfoundland and Labrador, Canada, 3 July 2011. Invited Speaker: How Should New Implants be Monitored in Canada?


Schemitsch, E: Case Controversies in Trauma Care, Mississauga, Ontario, Canada, September 2011. (1) Course Co-Chair. (2) Case session leader.


Schemitsch, E: Osteoporosis Focus Inaugural Forum, Mississauga, Ontario, Canada, November 2011. COA Update.


Schemitsch, E: Canadian Trauma Advisory Council, Toronto, Ontario, Canada, February 2012. Trends in Trauma in Canada.


Schemitsch, E: Canadian Orthopaedic Association, Ottawa, Ontario, Canada, June 2012. An analysis of the hip resurfacing failures - Canadian experience.


Waddell, J.P: International Hip Society, Prague, Czech Republic, 8 September 2011. Presenter: A Prospective Randomized Controlled Trial Comparing Three Alternative Bearing Surfaces in Primary Total Hip Arthroplasty.


RESEARCH AND INVESTIGATIONS

Peer-Reviewed Grants


A prospective randomized controlled multicentre pivotal human clinical trial to evaluate the safety and effectiveness of Augment injectable bone graft compared to autologous bone graft as a bone regeneration device in hindfoot fusions. *Daniels TR: BioMimetic Therapeutics Inc.* ($200,000 USD 2011 – 2012).

A Randomized Clinical Trial Comparing Late versus Early Physiotherapy Start Times Following Multi-Ligament Reconstruction for Knee Dislocation (Co-LEAP). *Whelan DB, Ravi B: Physicians Services Incorporated Foundation (The) (PSI).* ($68,000 2011 – 2013).


Cartiva Implant for hallux rigidus. *Daniels TR: Carticept Medical, Inc.* ($42,000 USD 2011).


Osteoporosis Exemplary Care Program. *Bogoch ER: Helen McCrea Peacock Foundation.* ($9,000 2012).


Study to optimize the delivery of fracture secondary prevention. Bogoch ER: Novartis Canada Ltd. ($20,000 2012).

Study to optimize the delivery of fracture secondary prevention program. Bogoch ER: Amgen Canada Inc [Mississauga, ON]. ($10,000 2012).


Treatment of hallux rigidus: fusion or hemiarthroplasty - randomized trial. Daniels TR, Khan R: Carticept Medical, Inc. ($30,000 USD 2011).


HONOURS RECEIVED


Daniels T: The COA award of merit, Canadian Orthopaedic Association (COA). 2011.

Daniels T: The Mann Award, AOFLAS, San Diego, California, United States. 2012.

Daniels T: Jameel Ali Continuing Education Award, Dept of Surgery, Faculty of Medicine, University of Calgary. Continuing Education. 2011.

Daniels T: Orthopaedic Chair’s Teaching Award, Orthopaedic Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. 2011.


Schemitsch E: Meeting Best Podium Paper Award, European Federation of Orthopaedics and Trauma (EFORT) 2011.


Schemitsch E: Fellowship Day Lecturer, University of Calgary. 2011.

Division of Plastic and Reconstructive Surgery

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

PUBLICATIONS

Journal Articles


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Development of a Diabetic foot Website. Mahoney JL, Sargeant R: J.P. Bickell Foundation. [$20,000 2011].


HONOURS RECEIVED

Mahoney, JL: The Society of Advanced Wound Care - A needs Assessment of Intervention to reduce the Risk of Wound Complications following Saphenous Vein Harvesting, 2011-2nd place young investigators award

Musgrave MA: Donald J. Currie Award for Undergraduate Education, St. Michael’s Hospital, Toronto, Ontario. 2011.

Musgrave, Melinda Anne: FitzGerald Academy Clerkship Teaching Award, St. Michael’s Hospital, Toronto, Ontario. 2011.
Division of Urology

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

PUBLICATIONS


INVITED VISITS

Honey RJD: Annual American Urological Association, Atlanta, Georgia, United States, 20 May 2012. (1) Facilitator: (a) Flexible Ureteroscopy for Renal Stones. (b) Stone disease: new technology/ SWL, ureteroscopic or percutaneous stone removal. (2) Course Director: Hands-on Course. (3) Moderator: IV Moderated Poster Session 68.


Pace K: Canadian Urological Association, Calgary, Alberta, Canada, June 2012. Invited Speaker: Fifth Annual Basic and Advanced Laparoscopic Skills Course Entering the Hostile Abdomen and Dealing with Intraoperative Complications.

RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED

Honey RJD: Best Endourology Poster, Annual Meeting of the Canadian Urological Association, Montreal, Quebec, Canada. 2011.
Honey RJD: Five Star Best Poster in Session, Annual Meeting of the Canadian Urological Association, Montreal, Quebec, Canada. 2011.
Pace K: Best poster, Annual meeting of the European Association of Urology (EAU), Vienna, Austria. 2011.
Pace K: Best Endourology Presentation, Annual meeting of the Canadian Urological Association, Montreal, Quebec. 2011.
Pace K: Five star Best Poster in session, Annual meeting of the Canadian Urological Association, Montreal, Quebec. 2011.
Pace K: Best poster presentation, Annual research day of the University of Toronto HPME. 2011.
Pace, Kenneth: Urology Residents Clinical Teaching Award, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto. Postgraduate MD. 2011.

Division of Vascular Surgery

Dr. F.M. Ameli Associate Professor (Division Head)
Dr. V. Campell Assistant Professor
Dr. A.G. Lossing Associate Professor
Dr. A. Moloney Assistant Professor
Dr. T. Tanner Assistant Professor
Dr. M. Wheatcroft Assistant Professor

INVITED VISITS


HONOURS RECEIVED

Campbell V: William Horsey Post-Graduate Teaching Award, Dept of Surgery, Faculty of Medicine, St. Michael’s Hospital. 2011.
During 2011–2012 the Sunnybrook Department continued to grow and benefit from alignment with the Institutional strategic plan. The “Drive to 95 (percent occupancy)” reduced occupancy to acceptable levels allowing the more reliable provision of surgical care. The Department benefited from recruitment in strategic areas in a challenging resource environment.

RECRUITMENT
Manuel Dibildox was appointed as a Surgeon-Investigator in the Division of Plastic Surgery with special expertise and interest in acute burn care, critical burn care, and reconstructive burn care within the Trauma, Emergency and Critical Care Medicine Program. Paul Karanicolas was appointed as a Surgeon-Scientist in the Division of General Surgery with special interest in hepatobiliary cancer management and health services research and clinical trials in surgical and hepatobiliary oncology. Avery Nathens was recruited as Sunnybrook’s next Surgeon-in-Chief.

DEPARTURES
Jean Francois Boileau announced his departure for an academic position in Montreal. Sherif Hanna completed his term as Director of Surgical Oncology having organized the establishment of the Hanna Family Research Chair in Surgical Oncology. Andy Smith completed a very successful term as Head of the Division of General Surgery.

DIVISION OF CARDIAC AND VASCULAR SURGERY
The Division focused its activities on long-term outcome studies following valve replacement and cardiac revascularization, minimally invasive interventions, educational research and patient safety. Stephen Fremes was appointed as the inaugural Dr. Bernard S. Goldman Chair in Cardiovascular Surgery. Robert Maggisano was named Inaugural Chair in Vascular Surgery to enhance the development and evaluation of less invasive image-guided interventions. Giuseppe Papia received the Marvin Tile Distinguished Service Award at the Harrison dinner in June.

DIVISION OF GENERAL SURGERY
Division members work in the fields of surgical oncology or trauma care. All Division members contribute to the acute care service which provides a positive learning environment for trainees and excellent continuity of care for patients. The Division’s academic interests include the determinants of outcome following surgical intervention for abdominal malignancy, innovative imaging techniques for the management of breast cancer, the role of transfusion in the management of trauma and the development of standardized protocols for surgical management.

Natalie Coburn was appointed Head of the Division and Clinical Leader for Quality and Patient Safety in the Division. Homer Tien directed Sunnybrook’s Trauma Centre. Homer received the Order of Military Merit by the Governor-General at Rideau Hall. Darlene Fenech co-directed the MMMD second year course for undergraduate medical students. Sandro Rizoli was promoted to full Professor recognizing his contributions to the management of hemorrhagic shock. Natalie Coburn was promoted to Associate Professor in recognition of her contributions to improving outcomes of surgery for gastro-intestinal malignancies. Homer Tien was promoted to Associate Professor in recognition of his contribution to trauma management. Calvin Law was appointed Head of Surgical Oncology in the Odette Cancer Program. Fred Brenneman organized a fundraiser to benefit research and innovation in abdominal wall reconstruction in cooperation with the Foundation.
DIVISION OF NEUROSURGERY

The Division provides support for the trauma, cancer and brain science programs. A cooperative program with Imaging optimizes treatment for patients with intracerebral aneurysms.

DIVISION OF ORTHOPAEDIC SURGERY

This large Division has interests in joint replacement, the management of orthopaedic trauma, the provision of spine care and soft tissue reconstruction. The surgical program funded by the WSIB for patients with shoulder, elbow, hip, knee and spine problems continued to grow. Cari Whyne was promoted to full Professor recognizing her contributions to orthopaedic biomechanics. Albert Yee was selected as one of two 2013 ABC Travelling Fellows by the Canadian Orthopaedic Association. Hamilton Hall was recognized by the Board for forty years of service to the Institution. David Stephen was active in the Post Graduate Support/Fellowship Committee of AOTrauma North America.

DIVISION OF PLASTIC SURGERY

Division members focus their activities in the areas of burn care, craniofacial deformity and trauma, and hand trauma. Jeff Fialkov was promoted to Associate professor in recognition of his contributions to the surgical management of craniofacial trauma. Marc Jeschke received the Marvin Tile Distinguished Service Award at the December Harrison dinner.

DIVISION OF UROLOGY

The Division focuses its activities on urologic oncology, including survivorship issues, female urology and urethral reconstruction. The Division initiated a cooperative robotic surgical program located at the Toronto East General Hospital. Robert Nam was elected President of the Medical Dental Midwifery Staff Association and joined the Board of the hospital. Rob was appointed to the Ajmera Family Chair in Urologic Oncology to pursue his interest in the molecular genetics of prostate cancer. Sender Herschorn chaired the Departmental Promotions Committee.

EDUCATIONAL ACTIVITY AND AWARDS

Sunnybrook appointed Joshua Tepper (former Assistant Deputy Minister of Health) Vice President of Education. Dr. Tepper spoke eloquently to the fourth year medical students at their pre-convocation ceremony about choices the graduates of our medical school will face in their careers and the impact they would have on the lives of their patients. Darlene Fenech received the Surgical Oncology Teaching Award. George Christakis was recognized by Sunnybrook for his outstanding contributions as a Faculty member. John Murnaghan received the Donald Richard Wilson award for excellence integrating CanMEDS roles into a Royal College Training Program. Fred Brenneman and Giuseppe Papia were nominated for Sunnybrook Education Advisory Council Awards. Cari Whyne and Albert Yee received the Charles Tator Award at Gallie Day for supervising graduate students.

George Christakis was appointed Departmental Director of Undergraduate Education. George also received the Bernard Goldman award. Ron Kodama was appointed pre-clerkship coordinator for the University Department. Andy Smith directed and Fred Brenneman, Darlene Fenech, Paul Karanicolas, Calvin Law, Ted Ross, Homer Tien, Lorraine Tremblay and Frances Wright participated in the 52nd Annual Update in General Surgery. Albert Yee, Veronica Wadey and Robin Richards were selected by the graduating residents as being most influential in their training. Adrienne Weeks (Neurosurgery), Nathan Zilbert (General Surgery) and Kevin Koo (Orthopaedics) received Harrison Teaching Awards.

RESEARCH ACTIVITY AND AWARDS

Colonel Homer Tien was awarded the Canadian forces Major Sir Frederick Banting MD RCAMC Term Chair in Military Trauma Research. Marc Jeschke was awarded CIHR funding for five years. Natalie Coburn received multi-year CIHR funding for an evaluation of interventions for gastric cancer. Diane Nam received a New Investigator Award from the Orthopaedic Research Society. Fred Brenneman and Sandro Rizoli received AFP Innovation funding for studies of abdominal wall reconstruction and transfusion decision-making. Paul Karanicolas received funding from Colon Cancer Canada for research on quality of life following resection of colorectal cancer.

Albert Yee received the prestigious Eduard Samson award from the Canadian Orthopaedic Foundation for his work on the treatment of spinal metastasis. Victor Lo (supervised by Cari Whyne, Albert Yee and Margarete Akens) received the Founders’ Medal of the Canadian Orthopaedic Research Society. Cari Whyne and Hans Kreder organized a research program focusing on the translation of science to practice changes in the Holland Musculoskeletal Program. Richard Jenkinson, John Murnaghan and Joel Finkelstein spoke at the symposium. Calvin Law and Paul Karanicolas spoke at the 6th Annual Cancer Research Day organized by Andy Smith and the Odette Cancer Program.

CONCLUSION

Sunnybrook surgeons value the support of the Institution in creating a rich surgical environment for the provision of patient care, teaching and research. Department members also appreciate the opportunity to provide leadership in our University Department and our Faculty. The Department recognizes and relishes the opportunity it has to provide specialized surgical care to patients from the Toronto Central Local Health Integrated Network, our surrounding Local Health Integrated Networks and the Province.

On a personal note it has been an extraordinary privilege to lead the Sunnybrook Department of Surgery since September 2001, to recruit new staff and to be involved with the career development of all members of the Department. I will be forever grateful for the experience and wish to thank all who have contributed to the individual success of the members of the Department and its collective accomplishments. Most importantly I wish to thank each member of the Department for the wonderful work they do each and every day.
Division of Cardiac and Vascular Surgery

Dr. G. Christaki  Professor
Dr. G. Cohen  Associate Professor
Dr. A. Dueck  Assistant Professor
Dr. S. Fremes  Professor (Division Head)
DR. B.S. Goldman  Professor
Dr. D. Kucey  Assistant Professor
Dr. R. Maggisano  Associate Professor
Dr. F. Moussa  Lecturer
Dr. G. Papia  Assistant Professor

PUBLICATIONS


PRESENTATIONS

Christakis G: Canadian Society of Cardiac Surgeons (CSCS), Canadian Cardiovascular Congress, Vancouver, British Columbia, October 2011. Presenter: (1) Is Your Revision Criteria Appropriate? New Cut-Off Value of Transit Time Flowmetry From Graft Imaging to Improve Patency (GRIIP) Study. (2) Is Sinus Rhythm a Must in Surgical Patients?


Cohen G: 15th Tremblant Interventional Cardiology, Mont Tremblant, Quebec, January 2012. Speaker: (1) CABG vs. PCI: Debate. (2) Early Results of MitraClip.

Dueck A: Association for medical education in Europe (AMEE), Annual Scientific Meeting, Vienna, Austria, August 2011. Presenter: Linking patients’ understanding of management of shared decision making: A challenge in continuing health education.

Dueck A: Canadian Society for Vascular Surgery Annual Scientific Meeting, St. John’s, September 2011. Presenter: The impact of limited vascular ultrasound studies on clinical decision making in patients with peripheral arterial disease.


Dueck A: Toronto Endovascular Conference, Toronto, Ontario, Canada, March 2012. Presenter: (1) CCSVI and MS: a systematic review. (2) Hybrid Intervention for PAD.


Fremes S: 25th Annual Scientific Meeting of the Japanese Coronary Association, Osaka, Japan, December 2011. Invited Lecturer: Early and Late Patency on the Radial Artery and Saphenous Vein [Insights from the Radial Artery Patency Study – RAPS].


**RESEARCH AND INVESTIGATIONS**


SUPERIOR SVG Patency CABG Trial - Surgical and Pharmacologic Novel Interventions to Improve Overall Results of Saphenous Vein Graft Patency in CABG Surgery: An International Multi-Center RCT. Fremes S: Heart and Stroke Foundation of Canada (HSFC). ($290,163 2010 - 2013).

**HONOURS AND AWARDS**

Papia, G: Marvin Tile Distinguish Service Award, Department of Surgery, Sunnybrook Health Sciences Centre. June 2012.
Division of General Surgery

Dr. J.F. Boileau  Assistant Professor
Dr. F. Brenneman  Associate Professor
Dr. P. Chu  Associate Professor
Dr. N. Coburn  Assistant Professor (Division Head)
Dr. D. Fenech  Assistant Professor
Dr. S. Hanna  Associate Professor
Dr. C. Holloway  Associate Professor
Dr. P. Karanicolas  Assistant Professor
Dr. C. Law  Associate Professor
Dr. S. Rizoli  Associate Professor
Dr. T. Ross  Associate Professor
Dr. A. Smith  Professor
Dr. H.C. Tien  Assistant Professor
Dr. L. Tremblay  Assistant Professor
Dr. F. Wright  Associate Professor

PUBLICATIONS


Jansen JO; Scarpelini S; Pinto R; Tien HC; Callum J; Rizoli SB. Hypoperfusion in Severely Injured Trauma Patients is Associated with Reduced Coagulation Factor Activity. Journal of Trauma: 2011 Nov; 71(5): S435-S440.


Nascimento B; Rizoli S; Rubenfeld G; Lin Y; Callum J; Tien HC. Design and Preliminary Results of a Pilot Randomized Controlled Trial on a 1:1:1 Transfusion Strategy: The Trauma Formula-Driven Versus Laboratory-Guided Study. Journal of Trauma: 2011 Nov; 71(5): S418-S426.


Tremblay LN, Scales D. Ultrasound-guided tracheostomy - not for the many, but perhaps the few ‘85 or the one. Critical Care: 2011; 15: 147.


INVITED VISITS


Brenneman F: St. John’s general surgeon seminar, St. John’s, Newfoundland and Labrador, Canada, 6 September 2011. Invited Speaker: Complex Ventral Hernias - Abdominal Wall Reconstruction.


Coburn N: Canadian Society of Surgical Oncology, Eighteenth Annual Scientific Meeting, Toronto, Ontario, Canada, 27 April 2012. Presenter: (1) What provider volume is appropriate for gastric cancer resection? Results of a RAND/UCLA expert panel. (2) Resection of multi-site metastases from colorectal cancer; feasibility and interim results of a multi-centre prospective phase II study.


Rizoli S: Beth Israel Deaconess Medical Center – Harvard Medical School, Boston, Massachusetts, United States, 9 February 2012. Visiting Professor: What’s New in the Management of the Massive Bleeding Patients.

Rizoli, S: XIV Pre-Congress of the Brazilian Trauma Leagues, Campinas, Sao Paulo, Brazil, 18 April 2012. Visiting Professor: Management of the hypovolemic shock: permissive hypotension, transfusion 3:1 or 1:1:1?


Tremblay L: Canadian Association of General Surgeons (CAGS), London, Ontario, 19 September 2011. Speaker: Surgical safety checklists improve outcomes and should be mandatory.


**RESEARCH AND INVESTIGATIONS**


Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients. *Lacroix J, Callum J, Fowler R, Rizoli S: Canadian Institutes of Health Research (CIHR).* ($4,050,189 2009 - present).


Lumpectomy vs. mastectomy or contralateral prophylactic mastectomy: an exploratory study to understand why women with early breast cancer are now choosing more extensive surgery? *Wright F, Covelli A, Baxter N, Fitch F: Canadian Breast Cancer Foundation (CBCF).* ($71,500.00 2010 - 2013).

Management of occult pneumothoraces in mechanically ventilated patients - pilot study. *Rizoli S: Physicians Services Incorporated Foundation (The) [PSI].* ($20,000 2008 - present).


Quality of Life Following Resection of Colorectal Cancer. *Karanicolas P: Colon Cancer Canada, Operating Grant.* ($50,000 2011 - 2012).

Quality of Life Following Resection of Colorectal Cancer. *Karanicolas P, Coburn N, Law C: Colon Cancer Canada.* ($60,000 2012).


Sentinel node biopsy following neoadjuvant chemotherapy in biopsy proven node positive breast cancer: The SN FNAC study. *Boileau J-F: Quebec Breast Cancer Foundation (QBCF), Peer reviewed by the Cancer Research Society (CRS), Quebec Breast Cancer Foundation (QBCF).* ($26,000 2010 - present).


HONOURS RECEIVED

Coburn N: Career Scientist Award, Ministry of Health and Long-Term Care.

Hanna S: Rose Award, Sunnybrook Health Sciences Centre. The Sunnybrook Rose Award recognizes the exemplary efforts of volunteers for outstanding service to Sunnybrook in a fundraising capacity and hospital staff and physicians for outstanding work to support the philanthropic objectives of Sunnybrook. 2011.

Rizoli S: AAST Research Fellowship, American Association for the Surgery of Trauma.

Rizoli S: New Investigator Award, Canadian Institutes of Health Research.

Tremblay L: Sunnybrook Moment of Service Excellence Award, Sunnybrook Health Sciences Centre. December 2011.

Division of Neurosurgery

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

PUBLICATIONS


INVITED LECTURES


**da Costa L:** OMNI channel 4, Toronto, Ontario, Canada, 8 January 2012. Invited Speaker: Stroke. 30 minute TV interview on stroke causes, prevention and treatment.


**Houlden D:** 60th Annual Conference of Neurological Society of India, Bangalore, India, 15 December 2011. Speaker: The Utility of Electrophysiology during Nerve Surgery.


**Mainprize T:** SNO (Society for Neuro-Oncology), 2011. Speaker: Targeted delivery of gold nanoparticles to the invasive front of malignant glioma using transcranial magnetic-resonance image guided focused ultrasound.

RESEARCH AND INVESTIGATIONS


Molecular Targetting of the RHO-GTPase Pathway in Human Astrocytomas. Rutka J, Hynynen K, Mainprize T: Canadian Institutes of Health Research (CIHR). [$750,000 2010 - 2015].


Teaching sessions - Transcavernous approaches to the basilar artery. da Costa L: EV3. ($3,000 2012).
HONOURS RECEIVED

Mainprize T: Alan Hudson Teaching Award, Neurosurgery, Dept of Surgery, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada. Neurosurgery Faculty showing excellence in Undergraduate and Post-graduate Teaching. [Multilevel Education]. July 2011 - July 2012.

Division of Orthopaedics

Dr. M. Akens Lecturer
Dr. T. Axelrod Professor
Dr. H. Cameron Associate Professor
Dr. J. Cameron Assistant Professor
Dr. G. Fernie Professor
Dr. J. Finkelstein Associate Professor
Dr. M. Ford Assistant Professor
Dr. J. Gollish Assistant Professor
Dr. H. Hall Professor
Dr. R. Holtby Assistant Professor
Dr. R. Jenkinson Lecturer
Dr. H. Kreder Professor (Division Head)
Dr. B. Maki Professor
Dr. B.W. Malcom Assistant Professor
Dr. P. Marks Associate Professor
Dr. J. Murnaghan Associate Professor
Dr. D. Nam Assistant Professor
Dr. M. Nousiainen Assistant Professor
Dr. R. Richards Professor
Dr. D. Stephen Associate Professor
Dr. V. Wadey Assistant Professor
Dr. C. Whyne Associate Professor
Dr. C. Wright Assistant Professor
Dr. A. Yee Associate Professor

PUBLICATIONS


Kanavas E, Akens MK, Whyne C, Yee A. A Brilliant Combination: Musculoskeletal researchers are pairing light and drugs to effect a more powerful way to kill cancer that has migrated to bone. Sunnybrook Research Institute Magazine. Annual report, 2011.


Winter JD, Akens MK, Cheng HL. Quantitative MRI assessment of VX2 tumour oxygenation changes in response to hyperoxia and hypercapnia. Physics, Medicine, Biology: 2011; 56: 1225-1242.


INVITED LECTURES


Axelrod T: Canadian Orthopaedic Association Annual Meeting, St. John’s, 7 July 2011. 1/ Preparation of a Quality Medical Legal Report; IC#3 Medical Legal Issues. 2/ Update on Distal Radius Fractures: IC#6 Common Top Fractures Update.


Axelrod T: Synthes, Beaver Creek, Colorado, United States, 21-23 January 2012. 1/ Chair: Programme Chair Synthes Think Tank: Upper Extremity Trauma and Reconstruction. 2/ Invited Lecturer: Lecture: Complex Scaphoid Fracture and Non-Union Synthes Think Tank: Upper Extremity Trauma and Reconstruction. 3/ Invited Lecturer: Lecture: Complex Distal Radius Fracture and Non-Union Synthes Think Tank: Upper Extremity Trauma and Reconstruction.


Cameron J: Sicot XXV Triennial World Congress, Prague, Czech Republic, 6 September 2011. Speaker: Congenital Dislocation of the Patella Treated by Combined Rotational High Tibial Osteotomy and Total Knee Arthroplasty.

Cameron J: Rocky Mountain Traumatological Society, Colorado, USA, Jan 12 - 14, 2012. Speaker: Failed Quadriceps Tendon Repair 2 Degrees to Patella Baja.


Kreder H: Advanced Concepts in the Principles and Practice of Clinical Research, Mississauga, Ontario, October 2011. Presenter: 1/ How can we randomize? Envelopes, Telephone, and Internet. 2/ What are the Types of Non-Randomized Studies?

Kreder H: Annual Ontario Orthopaedic Association, Toronto, Ontario, Canada, 4-5 November 2011. Invited Speaker: 1/ Proximal femoral fractures, new implants and old principles. 2/ Pelvic Fractures: How to Stay out of Trouble.


Kreder H: AO North America, Las Vegas, Nevada, United States, January 2012. 1/ Table Instructor: Surgical Approaches. Fellows Symposium with Human Anatomic Specimen.

Kreder H: American Academy of Orthopaedic Surgeons (AAOS), San Francisco, California, United States, February 2012. Invited Speaker: 1/ Periprosthetic Fractures: When to Replace. 2/ Periprosthetic Fractures: Case Presentations and Management.

Kreder H: QEII HSC, Dalhousie University (Chad Coles, MD), Halifax, Nova Scotia, Canada, April 2012. Visiting Professor: Proximal Femur Fractures. Presented at Divisional Rounds at QEII HSC.


Murnaghan J: Canadian Association Emergency Physicians, Niagara Falls, Ontario, Canada, 3 June 2012. Presenter: Thromboembolic and Bleeding Events following Total Hip and Knee Arthroplasty using factor Xa inhibitor.

Nam D: Orthopaedic Research Society Annual Meeting, San Francisco, California, United States, February 2012. Presenter: T-Lymphocytes enable osteoblast maturation during the early phase of fracture repair.

Nam D: AO North America, Hand and Wrist Fracture Management Workshop, Toronto, Ontario, Canada, 5 May 2012. Faculty: 1/ Can all distal radius fractures be managed with volar locking plates? What about external fixation? 2/ Percutaneous vs. open fixation of scaphoid fractures; dorsal or palmer?


Stephen D: AO North America, Solutions Fracture Fixation Course, San Francisco, California, United States, April 2012. Invited Speaker: 1/ Ankle Fractures - Salvage of Common Treatment Errors. 2/ Ankle Arthrodesis for Salvage of Trauma Sequelae. 3/ Solutions Fracture Fixation Course.


Wadey V: ICRE, Quebec City, Quebec, Canada, 24 September 2011. Presenter: On-line Case Simulation: The Ability to Screen, Identify and Initially Manage Inflammatory Arthritis: Inter-Professional Review.


Whyne C: Canadian Operational Research Society, Ottawa, Ontario, Canada, June 2012. Speaker: Spine session.


Yee A: Canadian Spine Society - Fellowship Symposium, Sun Peaks, British Columbia, Canada, 2 March 2012. 1/ Speaker: Competency in Spinal Surgery in Canada - Perspective on cognitive and procedural competencies by our fellows as well as supervisors alike. 2/ Co-Chair: Symposia -- The Future of Spine Subspecialty Training and Accreditation.


Yee A: Canadian Orthopaedic Association (COA) Annual Meeting, Ottawa, Ontario, Canada, 8 June 2012. Speaker: Treating Cancer Spread to the Spine: Translating Research from the Clinic to the Bench and Back.

RESEARCH AND INVESTIGATIONS


Clinical outcomes following oral factor Xa inhibitor. Murnaghan J, Golish J, Kreder H, Geerts B: Bayer HealthCare AG. ($425,000 2010 - 2012)

Complications and re-operation after tibial plateau fracture fixation in a large population cohort. Wasserstein D, Kreder H: Orthopaedic Trauma Association (OTA). ($10,000 2012 - 2012)


Efficacy of a handrail cueing system designed to prevent falls by facilitating effective grasping. Maki BE, Middleton S: Ontario Neurotrauma Foundation (ONF), Summer Internship Program. ($7,000.00 2011).


Multi-resolution modeling of thin bone structures in the human skeleton. Whyne C: NSERC. ($245,000 2011 - 2015)


Patient donation to Dr. V. Wadey Foundation Funds at Sunnybrook Hospital for research. Wadey V. ($15,000 2011)

Photodynamic therapy treatment to enhance fracture healing. Akens M, Whyne C, Nam D, Wilson BC, Yee AJM: Congressionally Directed Medical Research Program. ($100,000 USD 2010 - 2012)


Risk Factors & Indicators that Predict the Progression of Osteoarthritis After Knee Injury. Marks PH, Hurtig M, White L, Weller I: Canadian Institutes of Health Research [CIHR]. ($300,000 2004 - 2012)

Safe activities following elective total hip replacement [SafeT]. Weller I, Corey PN, Gignac M A, Gollish JD, Hawker GA, Kennedy DM, Kreder HJ, MacDonald SJ: Canadian Institutes of Health Research [CIHR]. ($930,000 2007 - 2012)


The Immune Mediation of Fracture Repair. Nam D, Whyne C, Anderson M, Alman B: University of Toronto, Dean's Fund New Staff Grant. ($10,000 2010 - 2012)

The Immune System and Fracture Repair. Nam D: Sunnybrook Health Sciences Centre Research Institute, Start-up Operating Funds. ($100,000 2009 - 2012)

The role of the arms in reacting to sudden loss of balance: a pilot study to evaluate age-related changes. Maki BE, Prout E: Ontario Neurotrauma Foundation [ONF]. ($9,000 2012)


Use of computer-based visual training to improve balance-recovery reactions in older adults: evaluation of a randomized controlled trial. Maki BE, McKay S: Ontario Neurotrauma Foundation [ONF]. ($12,000 2012)

HONOURS RECEIVED


Nam D: New Investigator Recognition Award [NIRA], Orthopaedic Research Society. February 2012.


Whyne C: Division of Orthopaedics Fellowship Day, Best basic science Presentation Award, University of Toronto. June 2012.
Whyne C: The Charles H. Tator Surgeon-Scientist Mentoring Award, University of Toronto. May 2012.

Yee A: 11th Annual Charles H. Tator Surgeon-Scientist Mentoring Award, University of Toronto. Award recognizing excellence in research mentoring of surgeon-scientists in the Department of Surgery, University of Toronto. May 2012.

Yee A: 2011 J. Edouard Samson Award, Canadian Orthopaedic Foundation, Canada. The premier award for orthopaedic research in Canada.


Yee A: Mentor Award, Division of Orthopaedics, University of Toronto. Selected by graduating residents in recognition of resident trainee guidance and mentoring over the years. December 2011.

Division of Plastic and Reconstructive Surgery

- Dr. O. Antonyshyn: Associate Professor
- Dr. P. Binhammer: Assistant Professor (Division Head)
- Dr. R. Cartotto: Associate Professor
- Dr. M. Dibildox: Lecturer
- Dr. J. Fialkov: Assistant Professor
- Dr. M. Jeschke: Associate Professor
- Dr. J. Lipa: Associate Professor
- Dr. S. Shahrokhi: Lecturer
- Dr. L. Snell: Assistant Professor

**PUBLICATIONS**


Shahrksi S, Gauglitz GG. Treatment of Burn Wounds Sepsis. UpToDate: Basow, DS (Ed) UpToDate Waltham, MA, 2012.


INVITED LECTURES


**Dibildox M:** University Hospital, Inselspital, Berne, Inselspital, Switzerland, 15 March 2012. Presenter: 1/ Choosing patient tailored hemodynamic monitoring, oxygen delivery targets and therapies in burn patients. 2/ The major burn patient: old and new aspects in pathophysiology and therapies. 3/ Update on insulin therapy in the critically ill: What are the new Pros?


**Lipa J:** Duke Perforator Flap Course for Breast Reconstructive Surgery, Durham, North Carolina, 25 February 2012. Faculty: Cadaver Lab: SIEA, Anterolateral Thigh, TUG Flaps; Special Topic: Alternative Donor Sites.


RESEARCH AND INVESTIGATIONS

Characterization of burn induced hepatic dysfunction. **Jeschke M:** National Institutes of Health (NIH) (USA). ($850,000 2010 - 2015)

Glucose control in severely burned patients: mechanism and therapeutic potential. **Jeschke M:** Physicians Services Incorporated Foundation (The) (PSI). ($165,000 2011 - 2013)

Impact of psychosocial factors and treatment choice on return to work in carpal tunnel syndrome. **Binhammer P, Anastakis D, Dvali L, Von Schroeder H:** American Foundation for Surgery of the Hand. ($16,000 2010 - 2012)

Leader’s Opportunity Fund application. **Jeschke M:** Canada Foundation for Innovation (CFI). ($1,100,000 2010 - 2015)

Multicentre Transfusion Trigger Study. **Palmieri T, Cartotto R:** University of California (Davis, CA), US Army Department of Defence/American Burn Association. (2011 - 2013)

Research Grant from Stryker Canada. **Fialkov J:** Stryker Canada. (2011 - 2012)
Division of Urology

Dr. L. Carr Associate Professor
Dr. S. Herschorn Professor
Dr. L. Klotz Professor
Dr. R. Kodama Professor (Division Head)
Dr. R. Nam Associate Professor
Dr. V. Venkateswaran Associate Professor

PUBLICATIONS


Klotz LH. The decline and fall of RCTs. CUAJ: 2011; 5(4): 229.


INVITED VISITS


Klotz L: Heinrich-Heine University, Dusseldorf, Germany, 17 October 2011. Visiting Professor: Management of prostate cancer.


Klotz L: European School of Oncology, Rotterdam, Netherlands, 14 January 2012. Chair: ‘Overdiagnosis of Cancer’. First International Conference on active surveillance.

Klotz L: Universite de Montreal, Montreal, Quebec, Canada, 19 January 2012. Visiting Professor.
Klotz L: FM 98.7, Toronto, Ontario, Canada, 22 January 2012. Speaker: Prostate Cancer and the Black Community Call in show.


Klotz L: California Medical Association, Glendale, California, United States, 7 March 2012. Presenter: New Approaches to Prostate Cancer. Audio-Digest CME/CE program.


Venkateswaran V: Australian Prostate Cancer Research Centre, Queensland University of Technology, Brisbane, Australia, 9 October 2011. Invited Speaker: Chemoprevention of prostate cancer in the last decade.

Venkateswaran V: 5th ICNAM Conference, Brisbane, Australia, 14-15 October 2011. 1/ Invited Speaker: Dietary agents in the chemoprevention of prostate cancer. 2/ Co-Chair of Session: Nutrition impact on epigenome and genome.


**RESEARCH AND INVESTIGATIONS**

A Phase IIb Randomized, Placebo- and Active Comparator (Tolterodine)-Controlled, 2 Part Clinical Study of the Efficacy and Safety of MK-4618 in Patients with Overactive Bladder. *Herschorn S: Merck & Co. Inc.* ($15,000 2011 - 2012)

A randomized placebo-controlled double-blind multicentre study of Fesoterodine 8 mg in overactive bladder patients with sub-optimal response to tolterodine 4 mg ER. *Herschorn S: Pfizer Inc.* ($15,000 2011 - 2012)


CUOG/Abbott Award–Capsaicin and docetaxel anti-tumour effect in prostate cancer. Klotz L, Sasaki H: Canadian Urologic Oncology Group. ($10,000 2011 - 2012)

Effect of Desmopressin and in combination with Docetaxel in prostate cancer. Klotz L, Venkateswaran V: Ferring Pharmaceuticals Inc. ($100,000 2010 - 2012)


Randomized trial of polyacrilamide gel versus collagen for female SUI. *Herschorn S: Contura*. ($25,000 2011)


Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. *Venkateswaran V, Klotz L, Fleshner N, Sugar L, Pollak M, Colquhoun A: CIHR Institute of Nutrition, Metabolism and Diabetes*. ($92,605 2010 - 2012)

**HONOURS RECEIVED**

**Klotz L**: Chairman, 5th World Urologic Oncology Federation Conference, Berlin, Germany. 2011.

**Klotz L**: Honorary Member, Chilean Society of Urology. 2011.


**Kodama R**: A.W. Bruce Undergraduate Teaching Award, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto, Canada. 2011.

**Nam R**: Faculty Postgraduate Teaching Award Surgical, Urology, Dept of Surgery, Faculty of Medicine, University of Toronto, Ontario, Canada. June 2012.
A year of reflection and forward thinking follows our successful succession planning and selection of a new Chief of Surgery at Toronto East General Hospital. I am extremely pleased to announce Dr. Carmine Simone, Thoracic Surgeon will be our next Chief. Carmine’s leadership in Critical Care Initiatives provincially and our Level One Thoracic Program give us strengths in focusing on building relationships and programs with insight and strong family values.

This has been an exciting year as we showcase a unique partnership built between Sunnybrook and TEGH under Dr. Rajiv Singal’s vision to develop a robotic surgical program with shared fund raised capital and operating funding. The Davinci Robot has been installed and training near completion for initially five urologists and allied health staff to begin robotic laparoscopic prostatectomy surgery in July 2012. This is thought to be the first example of such partnership and highlights our close relationship with the Odette Cancer Centre.

A focus on quality initiatives has also shaped our agenda this year with a theme of “TEGH – Your Choice for Safe Surgery.” Our surgical Website was updated with individual surgeons interests, contact information and biography’s with links for post-op information pamphlets and a virtual journey patients can access highlighting the quality initiatives they will encounter from initial referral to recovery. These include Best Practices in General Surgery, Early Recovery after Surgery, Safer Healthcare Now, thrombo-prophylaxis protocols, and pain control. Other important quality initiatives included review and prevention indwelling catheter injuries, esophagectomy review, standardization of Mortality and Morbidity Reporting and the development of monthly combined Quality Grand Rounds between Surgery and Medicine.

Final mention of our continued recognition and delivery of outstanding surgical education must be made at all levels of trainees. We aim to deliver a memorable experience true to the values of a collegial workplace with truly a wide clinical array of problems in an ethnically diverse population and an eye on excellence.

DIVISION OF GENERAL/THORACIC SURGERY

Our Division of General and Thoracic Surgery continues to be thriving and growing to meet the needs of our community. Minimally invasive surgery and our commitment to bariatric surgery continue to be successful. Under the leadership of Paul Bernick as Chair of all TEGH Multidisciplinary Cancer Conferences (MCC), our partnership with the radiation oncology group at the Sunnybrook Odette Cancer Centre has developed and has led to an improved and highly successful regular tumor board (MCC). We continue to be able to successfully treat a wide variety of benign and malignant general surgery conditions with very low wait times, though wait times are increasing as fiscal pressures increase. Our divisional teaching effectiveness scores continue to be high as we have committed surgeons and outstanding teachers.

Thoracic Surgery continues to achieve its goals of being the preferred Level 1 Centre for common chest surgery needs in the province. We have combined forces with the Division of Respirology to set up TEGH’s Chest Centre, a model of care for prevalent respiratory and thoracic surgical ailments. To date, we continue be amongst Ontario hospitals with the lowest wait times for lung and esophageal cancer surgery while continuing to increase our volumes to meet the Level 1 standards. Dr. Najib Safieddine. He brings added training and expertise in minimally invasive thoracic surgery (VATS). We have begun our Endobronchial Ultrasound (EBUS) program at TEGH as well.

Our partnerships with Sunnybrook, Odette Cancer Centre, North York General Hospital and Royal Victoria Hospital (Barrie) continue to thrive. Other regions throughout the province have sought our help in establishing Diagnostic Assessment Programs along
the lines of our successful Time to Treat rapid access lung cancer program. We continue to reach out to our community colleagues in Toronto, North York and Scarborough offering our services and expertise. We recently held a teaching session for the North East Respirology Group.

**UROLOGY**

Clinical focus includes oncology and MIS. TEGH is the first community hospital to work collaboratively with our Sunnybrook partners to purchase the Davinci Robot for laparoscopic prostatectomy surgery. Dr. Singal has worked tirelessly to see this process through its inception, fundraising and finally implementation. The clinical fellowship in Endourology has now entered its tenth year and senior level urology residents continue to spend elective rotation time at TEGH. Formal Multidisciplinary Cancer conferences are now well established with Odette and continue to support best practices in patient cancer care. Initiatives to promote patient safety include an overhaul of our perioperative antibiotic use, the development of a continence program and the development of a project to track hospital wide catheter related injuries.

**ORTHOPEDICS**

We have a strong focus on general orthopaedics, both elective and in the emergency treatment of fractures and other injuries of the musculoskeletal system. Our patient population consists of both our local community, as well as patients from our surrounding communities, reaching to underserviced areas such as the near north including Manitoulin Island, Sudbury, Timmins, Cochrane and Kirkland Lake.

Although the main focus of our elective surgery involves primary and revision arthroplasty of the hip and knee, our group also engages in a variety of other elective surgery such as spine, sports medicine of the knee, ankle and shoulder as well as foot and ankle reconstruction. We continue to perform a high volume of elective arthroplasty procedures, about 550 primary arthroplasty and about 50 revision arthroplasty cases annually. In the last few years, there has been an emphasis on providing high quality, fiscally responsible service in a timely fashion. Our division under Dr. Weiler’s care has certainly been professing their efficiencies and excellence for several years and is hoping for recognition as funding models change.

**PLASTIC SURGERY**

Surgical safety is a priority within our group. Like our colleagues, we have implemented the World Health Organization (WHO) Surgical Safety Checklist. Additionally our Division has been actively participating in numerous measures associated with the University of Toronto Best Practices Group including the standardization of the selection and administration or preoperative antibiotics. We strive not only to meet our already high standards, but to participate in initiatives to further improve the quality and safety of patient care. We are starting to see an increasing number of referrals for post bariatric body contouring. Our goal is to standardize patient selection, preop preparation, post op orders electronically and work with other body contouring plastic surgeons to form a virtual center of excellence within the city and beyond with combined mortality and morbidity rounds and an increased presence centrally within the provincial bariatric program.
Division of General Surgery

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

Division of Orthopaedics

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

PUBLICATIONS


RESEARCH AND INVESTIGATIONS

Division of Plastic and Reconstructive Surgery

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

Division of Urology

Dr. R. Groll  Lecturer
Dr. R.K. Singal  Lecturer (Division Head)
Dr. P. Vlaovic  Lecturer

42 Gordon Murray Lecture: Philippe Menasché.

The Division of Cardiovascular Surgery at the Peter Munk Cardiac Centre witnessed profound change during the past academic year. After a 22 year tenure as Division Chief, Dr. Tirone David passed the torch onto Dr. Vivek Rao. After a period of uncertain clinical volumes and competing technology, the Division is once again rejuvenated with the prospect of active recruitment into the novel areas of minimally invasive valve surgery, surgical therapies for cardiac arrhythmias and hybrid therapies for aortic disease. Generously supported by transformative gifts from Peter and Melanie Munk as well as the DeGasperis Family, the Division is well positioned to both recruit new surgeons and support innovative technology. Endowed chairs are currently held by four faculty members (Drs. David, Feindel, Rao and Yau). The Division continues to have an active clinical fellowship program attracting trainees from around the world under the direction of Dr. Stephanie Brister. The cardiac transplant and LVAD program, under the direction of Dr. Vivek Rao, continues to expand and is an active participant in major clinical trials in heart failure and mechanical circulatory support. Dr. Ralph-Edwards, in partnership with the Hypertrophic Cardiomyopathy team, continues to offer leading edge surgery to patients across the country. The research efforts, under the direction of Dr. Terrence Yau, Renke Li and Richard Weisel, successfully launched the province’s first stem cell program for cardiac disease in addition to maintaining extramural support from the Heart and Stroke Foundation (Drs. Yau, Weisel, Rao and Li) and CIHR (Drs. Weisel and Li). Dr. R.J. Cusimano was awarded the Wightman-Berris award for Undergraduate Teaching. The Division anticipates expanding the breadth of our surgical programs and reinforcing our reputation as a world-leading cardiac surgical center.
the American College of Surgeons Bariatric Surgery Center Network (ACS BSCN) Accreditation Program, the highest level of accreditation for Bariatric Centers of Excellence. Over 300 bariatric procedures were done at TWH in 2011-2012. Tim Jackson has spearheaded UHN’s participation in the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP). Our membership in this program will provide a wealth of research and quality-improvement opportunities for General Surgery.

Faculty in General Surgery hold current grants totalling more than $5,000,000 from National granting agencies; the Canadian Institute of Health Research (CIHR), Ontario Institute for Cancer Research, Canadian Liver Foundation, the Ministry of Research and Innovation, the Royal College of Physicians and Surgeons of Canada, the Medical Council of Canada, Physicians Services Incorporated (PSI), the Ontario Research Fund, The Canadian Cancer Society Research Institute, National Cancer Institute of Canada and International Grants; National Institutes of Health (NIH).

DIVISION OF NEUROSURGERY

Promotions:
Drs. Gelareh Zadeh and Mojgan Hodaie were promoted to the ranks of Assistant Professor and Associate Professor, respectively, at the University of Toronto.

Appointments:
Michael Fehlings was appointed as President of the Cervical Spine Research Society (CSRS) for 2011-12. Dr. Eric Massicotte was appointed Director of Undergraduate Teaching for Neurosurgery city-wide. After an international search, Dr. Michael Tymianski was selected as Head of the Division of Neurosurgery at UHN, effective June 1, 2011. Taufik Valiante is Co-Director of the Krembil Neuroscience Center’s Epilepsy Program, which has been designated a Luminary Site by Natus/XLTEK. The partnership with Natus, suppliers of EEG equipment to the Epilepsy Monitoring Unit, will allow the Epilepsy Program at Toronto Western Hospital to provide state-of-the-art epilepsy care at significantly reduced costs.

New Recruitments:
Three successful international searches were held over the year for new faculty recruits in academic neurosurgery for positions in Cerebrovascular (Dr. Ivan Radovancevic), Neuro-Oncology (Dr. Paul Kongkham) and Spine (Dr. Mohammed Shamji).

Departures:
Our Division was deeply saddened with the passing of our friend and colleague Dr. Abhijit Guha who passed away on November 8, 2011. On February 25, 2012, the Division of Neurosurgery gathered with colleagues, family and friends at Trinity College Chapel to celebrate the life of Dr. Ab Guha and the ceremony included tributes by a number of guests from within and outside of our Division.

Awards:
Dr. Michael Fehlings and Dr. Charles Tator were co-recipients of the Reeve-Irvine Research Medal for contributions to promoting repair of the damaged spinal cord and recovery of function. Dr. Michael Fehlings received a Golden Axon Award from the Brain Mapping Foundation, given in recognition of individuals who have demonstrated world-class leadership in neuroscience and have reached out to their local communities. Dr. Michael Fehlings was also named the 2012 Mayfield Lecturer and the Mayfield Medalist by the famed Mayfield Clinic.

Dr. Fred Gentili and Dr. Charles Tator received a 2011 Council Award from the College of Physicians and Surgeons of Ontario in recognition of outstanding Ontario physicians who have demonstrated excellence and come closest to meeting society’s vision of an ‘ideal physician’.Dr. Mojgan Hodaie received the 2012 Bernard Langer Surgeon-Scientist Award by the University of Toronto, Department of Surgery at the 38th Gallie Day held May 4, 2012.

Andres Lozano received a 2012 Pioneer in Medicine Award from the Society for Brain Mapping and Therapeutics. Andres Lozano was also selected as the recipient of the 2012 Herbert Olivecrona Medal from the Karolinska Institute.

Dr. Charles Tator will have a lecture named in his honor by the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section on Neurotrauma and Critical Care. This is a well-deserved recognition of Dr. Tator’s tremendous accomplishments and contributions in the field. Charles Tator was also the recipient of the American Spinal Injury Association (ASIA) Lifetime Achievement Award, for his contributions to the world of spinal cord injury care. Charles Tator was presented with the Outstanding Achievement Award by the Medico-Legal Society of Toronto in recognition of significant contributions to the society, the professions and the community at large. Gelareh Zadeh was awarded the 2012 Lois H Ross Resident Advocate award by PAIRO.

Grants:
The Division of Neurosurgery, Collectively, brought in $4,395,788.31 in peer-review research grants [amount for this academic year only]. Andres Lozano was awarded a renewal of his Tier 1 Canada Research Chair in Neuroscience. The CRC Secretariat awards Tier 1 Chairs for seven-year terms to outstanding researchers acknowledged by their peers as world leaders in their fields.

Andres Lozano was the lead investigator of a new PET Scan Suite, whose opening at Toronto Western Hospital was celebrated by UHN, the Toronto General & Western Foundation and the Edmond J. Safra Philanthropic Foundation on Sep. 19, 2011. Michael Tymianski was UHN’s sole lead recipient of an Ontario Research Fund-Research Excellence Round 5 Award from the Ministry of Research and Innovation for his project entitled “TRPM7 Inhibitors for the Treatment of Stroke and Myocardial Ischemia”.

Fellowships:
The Division continues to have an active clinical fellowship program attracting trainees from around the world and we had the pleasure of training 10 fellows this past academic year. This year, Dr. Boris Krschek,
clinical fellow in Neuro-oncology and skull base surgery was the recipient of the Zane Cohen Fellowship Achievement Award from the Department of Surgery at this year’s Gallie Day Dinner.

**Visiting Professors to our Division at TWH:**
Dr. Jacques Morcos, Professor of Clinical Neurosurgery, University of Miami, 29th Annual E. Harry Botterell Visiting Lectureship in Neurosurgery, Nov. 10-11, 2011
Christopher Ogilvy, Director, Endovascular and Operative Neurovascular Surgery, Harvard Medical School and Massachusetts General Hospital, City-Wide Rounds at Toronto Western Hospital, Mar. 30, 2012
Christopher Shaffrey, Harrison Distinguished Teaching Professor of Neurological Surgery, University of Virginia, 37th William S. Keith Visiting Professorship, Jun. 11-12, 2012

**Chairs:**
Dr. Mark Bernstein was appointed as the inaugural Barrick-Wilkins Chair in International Surgery. The Division of Neurosurgery has committed $1M towards the UHN Head of Division of Neurosurgery Chair.

**DIVISION OF ORTHOPEDIC SURGERY**

**Clinical:**
Raj Rampersaud: OrthoSaves implemented systematic capture of adverse events data across the Division of Orthopaedics.
Recruited Jas Chalal new orthopaedic sports surgeon between UHN and WCH.
Johnny Lau: Obtained volume funding for complex foot and ankle cases from MOHLTC
Division of Orthopaedics works closely with Altum Health to deliver care for work related MSK injuries.

**Teaching:**
Tim Dwyer & Ogilvie-Harris: Developed Curriculum for post-graduate sports medicine education for the University of Toronto.
Khal Syed: Developing Curriculum for post-graduate training in joint replacement surgery

**Research:**
Raj Rampersaud: PI for ISEC study for development and evaluation of Spine Assessment Centres across Ontario. Funding Source MOHLTC amount $2.8 million. Division wide there were over 30 peer reviewed publications
Rajiv Gandhi: Developed Osteoarthritis bio-bank. The bio-bank became operational last year and has over 300 samples to date.
Rajiv Gandhi: Established a translational research program in cartilage regeneration in collaboration with Gordon Keller and April Craft for the McEwen Centre
The Orthopaedic Division has raised over $20 million for the Arthritis Campaign

Wayne Marshall: Established Academic Advisory Board for the Osteoarthritis Research Centre
Recruited Anthony Perrucio clinical scientist: Epidemiology

**Awards:**
Christian Veillette: Canadian Orthopaedic Association Award of Merit in recognition of leadership and innovation in orthopaedic informatics, technology and communication

**DIVISION OF PLASTIC SURGERY**
The Division of Plastic & Reconstructive Surgery, University Health Network has recruited a number of key individuals to start in the 2012 – 2013 academic year.

Dr. Steven J. McCabe was appointed to the position of Director of the UHN Hand Program at the Toronto Western Hospital. His goals are to transform the Hand Program into a University wide collaborative group, to develop a program in hand transplantation, and to invigorate the academic activities of the Hand Program. Dr. Anne O’Neill was recruited the completion of her microsurgery fellowship program. Liz Starenkyj, RN, MN has taken on the position of Clinical Nurse Coordinator - Plastic Surgery Breast Restoration Program.

**Research Grant Funding**
We are very pleased to report the successful results of the annual peer-reviewed funding awards from the Canadian Institutes of Health Research (CIHR) for the projects entitled Development of a decision support tool in post mastectomy breast reconstruction surgery and “Understanding Bangladeshi women’s experiences of humanitarian surgical missions”.

The Division also received funding for 3 years from the Canadian Breast Cancer Foundation (CBCF), for a very innovative surgical trial entitled the use of human acellular dermal matrix in one-stage implant breast reconstruction: A multicenter, randomized, controlled trial and a Physicians Services Incorporated Foundation (PSI) grant for a trainee project entitled “Defining the Structural Integrity of Decellularized Tracheal Allografts”.

During the past 2011 – 2012 academic year, divisional members have published [26] peer-reviewed papers, presented [28] scientific papers and participated in [15] invited lectures. Dr. Hofer was invited as a Visiting Professor in February 2012 to present on New Concepts in Head and Neck Reconstruction at the University of Basel in Switzerland.

**Awards**
Dr. Toni Zhong received a 3-year Career Development Award from the American Society of Clinical Oncology (ASCO) – Conquer Cancer Foundation.

**Surgeon – Scientist Plastic Surgery Residents**
We are extremely proud of our two Surgeon – Scientist Plastic Surgery Residents that have received the significant recognition for their graduate work. Jennica Platt in the MSc Surgeon – Scientist Program received the inaugural GlaxoSmithKline-Canadian Breast
Cancer Foundation (CBCF) - Ontario Region Physician Fellowship Award, as well as the Frederick Banting and Charles Best Canada Graduate Scholarships Masters Award from the Canadian Institutes of Health Research (CIHR). Siba Haykal in the PhD Surgeon - Scientist Program received the Canadian Institutes of Health Research (CIHR) Vanier Scholarship Award for her PhD work in Tracheal Allotransplantation.

DIVISION OF THORACIC SURGERY

New programs that have been initiated by the Division of Thoracic Surgery are the LungMets Program (Drs. Waddell and Cypel) and the Program in Robotic Thoracic Surgery (Drs. Yasufuku and Waddell). Dr. Marcelo Cypel began his faculty position in September 2011 as an Assistant Professor and has already established a successful research lab and had a major impact on the Extracorporeal Life Support Program. Dr. Gail Darlington has accepted major roles in important Thoracic Surgery organizations. She is now Chair of the Thoracic Surgery Specialty Committee of the Royal College and Chair, Board of Regents for the International Association for the Study of Lung Cancer. She is a member of the Executive Committees of Lung Site Committee for National Cancer Institute of Canada Clinical Trials Group, and the General Thoracic Surgery Club. Several national and international special recognition awards were received by Dr. Shaf Keshavjee in recognition of the transformative impact that Ex Vivo Lung Perfusion (and organ repair in general) is having on the field of organ transplantation. These were the Zellers Senior Scientist Award (Cystic Fibrosis Canada), the Distinguished Lecturer in Respiratory Science Award (CIHR Institute of Circulatory & Respiratory Health & Canadian Thoracic Society) and the Roche Award for Excellence in Science (The Transplantation Society). Dr. Jonathan Yeung (Supervisor S Keshavjee) received the First Prize at Gallie Research Day for his PhD thesis work. Dr. Tom Waddell is now the Thomson Family Chair in Translational Research. Dr. Kazuhiro Yasufuku won the Best Referenced Paper Award (Japanese Association for Thoracic Surgery). Teaching awards were awarded to Dr. Gail Darlington (Gail E. Darling Award for Excellence in Undergraduate Teaching) and Dr. Tom Waddell (Robert J. Ginsberg Award for Excellence in Postgraduate Teaching). Dr. Wael Hanna is currently one of the Thoracic Surgery residents and received a McGill Fellowship Award. Visiting Professors for 2011-12 academic year were: Dr. Sean Grondin (University of Calgary), Dr. Malcolm Brock (Johns Hopkins), and Dr. David Sugarbaker (Harvard). Another highly successful Toronto Thoracic Surgery Refresher Course was held in June 2012 and included the following Visiting Faculty – Dr. Robert Cerfolio (Alabama), Dr. Drew Bethune (Halifax), Dr. Nasser Altorki (New York) and Dr. Eugenio Pompeo (Rome). Prior to the Refresher Course the annual EBUS Training Course was again hosted by Dr. Kazuhiro Yasufuku. The academic year concluded with Pearson Day, an annual celebration of clinical and laboratory research by trainees in our Division. The Pearson Day Visiting Professor was Dr. Eric Vallieres from Seattle.

DIVISION OF UROLOGY

The Division of Urology at University Health Network has continued to exemplify the model of academic surgery. The Division is focused on 3 major areas, urologic oncology (focused at the TGH and PMH sites), kidney transplantation (at TGH site) and functional urology/urourology (based at TWH site). Our division has grown in 2011-12 with the appointment of Dr. Girish Kulkarni. His focus will be on health services research in urological oncology. The Division has had a banner academic year with over 3 million dollars in peer reviewed grant capture largely in the area of urologic oncology with teams led by Drs Jewett, Finelli, Fleshner, Kulkarni, and Trachtenberg [all as PI]. Our group has published over 60 publications including such prestigious journals as Journal of Clinical Oncology and Lancet. From a clinical point of view, our bladder neurostimulation program continues to grow and is the largest in Canada. Our robotics program led by Dr Finelli has now completed over 300 radical prostatectomies. Other notable awards in 2011-2012 were prestigious career recognition awards to Dr Jewett from the American and Canadian Urological Associations and the Society of Urologic Oncology. Dr Fleshner was awarded a Queen’s jubilee medal.

DIVISION OF VASCULAR SURGERY

The Division of Vascular Surgery at UHN has had an active year with several clinical firsts. These Canadian firsts include the initial renal artery denervation procedure, and the first Anaconda fenestrated EVAR graft implantation in Canada. Both procedures were performed with partners from Interventional Radiology, Nephrology and Cardiology. The Division remains committed to minimally invasive procedures and continues to advance the practice of EVAR using branched and fenestrated grafts to treat thoracoabdominal aneurysms and peri-renal aneurysms. Dr George Oreopoulos was appointed to the position of University of Toronto, Division of Vascular Surgery Program Director. The Division published 13 papers this year with Dr. Rubin having publications in Circulation, Nature, PLoS One and Journal of Biological Chemistry. The Division has established two new speciality clinics this year; Vascular malformation clinic headed by Dr KW Johnston in conjunction with Interventional Radiology from both the Hospital for Sick Children and Toronto Western, and the Thoracic Outlet Syndrome clinic headed by Dr Graham Roche Nagle in conjunction with physiotherapy and Dr Vern Campbell from St Michael’s Hospital.
Division of Cardiac Surgery

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

PUBLICATIONS


Weisel RD. Yes, love makes the world go round - and keeps the heart pumping. The Toronto Star, August 22, 2011. Interviewed by Francine Kopun.


**INVITED VISITS**


**Brister SJ:** CBC: The World at 6, Toronto, Ontario, Canada, November 2011. Speaker: Employee wellness.

**Brister SJ:** Medtronics Canada, Toronto, Ontario, Canada, 17 November 2011. Lecturer: Contemporary blood management for the Cardiac Surgical Patient.

**Brister SJ:** Maclean’s Magazine, Toronto, Ontario, Canada, 29 February 2012. Invited Commentator: Women only trials re: ICD implementation issues.

**David TE:** San Raffaele Hospital - Professor Otavio Alfieri, Milan, Italy, 12 September 2011. Visiting Professor: Late outcomes of aortic valve sparing operations.

**David TE:** Lecco Hospital, Lecco, Italy, 13 September 2011. Visiting Professor: Aortic valve sparing operations - techniques and outcomes.


**David TE:** European Association for Cardio-Thoracic Surgery, Lisbon, Portugal, 4 October 2011. Invited Speaker: Aortic valve replacement with Hancock II bioprosthesis: the gold standard on bioprosthetic durability? Simultaneous lunch sessions.

David TE: The Heart Hospital, London, United Kingdom, 7 October 2011. Visiting Professor: (1) Aortic valve sparing operations: techniques and outcomes. (2) Aortic valve replacement with Hancock II: the gold standard on bioprosthetic durability?


David TE: Department of Surgery of North Shore University Hospitals, Long Island, New York, United States, 13 January 2012. Visiting Professor: Future of Cardiac Surgery Surgical Grand Rounds and wet-lab demonstration of aortic valve sparing operation.


David TE: University of Pittsburgh Continuing Medical Education. Florida Valve 2012, Orlando, Florida, United States, 22 February 2012. Invited Speaker: Long-term Outcomes of Stented Bioprostheses vs. Primary Aortic Valve Repair – Can We Attain a Gold Standard in Selected Patients?

David TE: University of Utah, Salt Lake City, Utah, United States, 26 March 2012. Visiting Professor: (1) Aortic valve sparing operations. (2) Aortic valve replacement with Hancock II bioprosthesis: the gold standard on bioprosthetic durability?


Li RK: Winnipeg Heart International Conference, Institute of Cardiovascular Sciences, Winnipeg, Manitoba, 12 October 2011. Invited Speaker: Bone marrow origins of resident cardiac stem-cell niche govern repair after infarction in aged mice.


Weisel R: Society for Thoracic Surgical Education, La Jolla, California, United States, 31 March 2012. Cardiac regeneration by stem cell therapy.

Weisel R: Trillium Health Centre, Mississauga, Ontario, Canada, 30 May 2012. Stem cell therapy for cardiac regeneration.

Weisel R: 10th World Congress of Adaptive Medicine, ISAM 2012, Bucharest, Bucuresti, Romania, 7 June 2012. Cardiac restoration by tissue engineering.


Yau TM: 21st Century Cardiothoracic Surgical Society, Boca Raton, Florida, United States, 19 February 2012. Setting up a cardiac stem cell therapy program. (Entirely in the OR).

RESEARCH AND INVESTIGATIONS


Facilitators and barriers to effective discharge following open heart surgery: Patients’ and nurses’ experiential accounts. Lapum J, Fredericks S, Micevski V, Yau TM: Ryerson New Faculty SRC Development Fund. ($10,000 2010 - 2012).

Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. Li R-K: Canadian Institutes of Health Research (CIHR). ($698,984 2010 - 2015).


The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates. Fredericks SM, Yau TM: Canadian Institutes of Health Research (CIHR). ($140,000 2011 - 2013).


**HONOURS RECEIVED**

Cusimano R: Wightman-Berris Teaching Award, University of Toronto. 2012.

Li R-K: Lister Prize, Department of Surgery, Faculty of Medicine, University of Toronto. 2012.

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**Division of General Surgery**

- Dr. M.S. Cattral: Professor
- Dr. T. Cil: Assistant Professor
- Dr. S.P. Cleary: Assistant Professor
- Dr. J. Escallon: Associate Professor
- Dr. A. Gagliardi: Associate Professor
- Dr. S. Gallinger: Professor
- Dr. A. Ghanekar: Lecturer
- Dr. R.M. Gorczynski: Professor
- Dr. D. Grant: Professor
- Dr. P. Grieg: Professor
- Dr. T. Jackson: Assistant Professor
- Dr. W.L. Leong: Assistant Professor
- Dr. D. McCready: Professor
- Dr. I. McGilvray: Associate Professor
- Dr. C.A. Moulton: Assistant Professor
- Dr. C.A. O’Brien: Assistant Professor
- Dr. A. Okrainec: Assistant Professor
- Dr. T.P. Penner: Lecturer
- Dr. M. Reedijk: Associate Professor
- Dr. L.E. Rotstein: Professor [Division Head]
- Dr. M. Selzner: Associate Professor
- Dr. B.R. Taylor: Professor
- Dr. R.D. Urbach: Professor
- Dr. A. Wei: Assistant Professor
- Dr. H. Weizel: Associate Professor
- Dr. L. Wright: Assistant Professor

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**PUBLICATIONS**


Ridgway PF, Collins AM, McCready Dr. The surgical importance of an axillary arch in sentinel node biopsy. Surgical & Radiologic Anatomy: 2011; 33[2]:147-149.


**INVITED VISITS**


Cleary SP: University of the West Indies: Princess Margaret Hospital & Doctors Hospital, Nassau, Bahamas, December 2011. AHPBA Invited Professor: The evolving paradigm of resection for colorectal liver metastases.


Gallinger S: 15th Annual Meeting Collaborative Group of the Americas on Inherited Colorectal Cancer, Montreal, Quebec, Canada, 10 October 2011. New genetic insights in familial colorectal cancer type X.

Gallinger S: OCI Faculty Lunch Interactive Discussion Session Series, Toronto, Ontario, Canada, 20 April 2012.

Grant D: Indraprastha Apollo Hospitals Sarita Vihar, New Delhi, Delhi, India, 8 October 2011. Invited Speaker: Small for Size Syndrome.


Greig P: ASTS Winter Meeting, Miami Beach, Florida, United States, 13 January 2012. Invited Speaker: Future’s So Bright, Gotta Wear Shades: Sustaining Junior Faculty session.


Leong WL: Department of Surgery, Saskatoon, Saskatchewan, 5 July 2011. Current controversy of locoregional control of breast cancers, will Z0011 and MA.20 change your surgical practice?


Moulton CA: Cleveland Clinic Surgical Grand Rounds, Cleveland, Ohio, United States, 30 September – 1 October 2011. Speaker: [1] Failing to slow down when you should: reactions to error in surgery. [2] Slowing down when you should: the keys to expert surgical judgment and decision making.

Moulton CA: Research in Medical Education (RIME), Denver, Colorado, United States, 7 November 2011. First do no harm: Balancing competing priorities in surgical practice.

Moulton CA: Research in Medical Education (RIME), Denver, Colorado, United States, 9 November 2011. Surgeon Reaction to Error: Harnessing a Powerful Source of Feedback.

Moulton CA: National Museet Annual Meeting, Copenhagen, Denmark, 26 November 2011. Supervisor's perspective - Operating from the other side of the table.

Moulton CA: American Society of Clinical Oncology (ASCO) - Gastrointestinal Cancer Symposium, San Francisco, California, United States, 20 January 2012. Survival analysis of PETCAM: A multicenter randomized controlled trial of PET/CT versus no PET/CT for patients with resectable liver colorectal adenocarcinoma metastases. (Poster Presentation)


Moulton CA: XXI International Congress Mexican Association of Endoscopic Surgery, Puerto Vallarta, Mexico, 26 April 2012. Slowing down when you should: key to surgical judgment.

Moulton CA: University of Rochester's Medical Center, Rochester, New York, United States, 15 June 2012. Slowing down when you should: the keys to expert surgical judgment and decision making.


Selzner M: The Cleveland Clinic Foundation Centre for Continuing Education, Cleveland, Ohio, United States, 19 September 2011. Invited Speaker: Ex vivo liver perfusion for the storage, assessment, and repair of marginal grafts.


Wei A: Scarborough Hospital, Division of General Surgery, Toronto, Ontario, Canada, 9 February 2012. Invited Speaker: Wei AC Aggressive Metastasectomy for Colorectal liver metastases Surgical Grand Rounds.


**RESEARCH AND INVESTIGATIONS**


A Phase II study of Perioperative Chemotherapy plus Panitumimab in Patients with Colorectal Cancer Liver metastases. *Cleary SP, Welch S, Moore M: Amgen Canada Inc (Mississauga, ON).* (2010 - present).


Association between allergy history, immunologic genetic variants and pancreatic cancer risk. *Cotterchio M, Gallinger S, Greenwood C: Canadian Institutes of Health Research (CIHR).* ($625,293 2010 - 2013).


Early Researcher Award. *Moulton CA: Ministry of Research and Innovation (MRI) (Ontario).* ($140,000 2011 - 2016).

Establishing a national agenda and research network for shared decision making (SDM) in oncology in Canada. *Gagliardi A: Canadian Institutes of Health Research (CIHR).* ($14,990 2011 - 2012).


Ex Vivo Human Liver Perfusion: Assessment and Repair of Marginal Grafts for Transplantation. Selzner M, Grant D, Levy G, Keshavjee S: Physicians Services Incorporated Foundation (The) [PSI]. ($100,000 2010 - 2012).

Ex Vivo Human Liver Perfusion: Assessment and Repair of Marginal Liver Grafts for Transplantation. Selzner M, Levy G, Grant D: Roche Organ Transplantation Research Foundation. ($300,000 2010 - 2013).


Normothermic ex vivo liver perfusion as a novel strategy to assess and repair marginal grafts. 
Markus Selzner: Roche Organ Transplant Research Foundation (ROTRF). ($300,000 2010 - 2013).

Ontario Familial Colorectal Cancer Registry - Phase III. Gallinger S, and 25 others in Regional Cancer Centres in Ontario: National Institutes of Health [NIH] [USA]. ($4,400,000 USD 2008 - 2012).


The association of serum vitamin D levels, genetic variants in vitamin D metabolism genes and pancreatic cancer risk. Cleary SP: Canadian Institutes of Health Research (CIHR). ($135,000 2011 - 2012).


HONOURS RECEIVED

Ghanekar A: Phase I Clinician-Scientist Training Award, Canadian Institutes of Health Research, Canada.

Greig P: Distinguished Service Award, AHPBA, United States. 2011 – 2012.

McCready D: Henry Shibata Lecturer, Canadian Society of Surgical Oncology. 2011.


Moulton CA: 2011 Gerald Kirsh Humanitarian Award, The Princess Margaret Hospital Foundation, Ontario, Canada.

Moulton CA: Frank Mills Award for Excellence in Teaching by a General Surgery Faculty Member, General Surgery, Dept of Surgery, Faculty of Medicine, University of Toronto. (Postgraduate MD). 2011.

Reedijk M: Gerald Kirsh Award, Princess Margaret Hospital. 2011.

Urbach DR: Best Brains Exchange Travel Award, Canadian Institutes of Health Research, Ontario, Canada.
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 Assistant Professor
Dr. M. Hodaie Associate Professor
Dr. W.D. Hutchison Associate Professor
Dr. A.M. Lozano Professor
Dr. E. Massicotte Associate Professor
Dr. C.H. Tator Professor
Dr. M. Tymianski Professor (Acting Division Head)
Dr. T. Valiante Assistant Professor
Dr. A. Velumian Assistant Professor
Dr. G. Zadeh Assistant Professor

PUBLICATIONS


Bernstein M. Mentoring: A bit of time and interest can make a world of difference to a student. The Bulletin: 2011; 12.


Davis KD, Racine E, Collett B. Neuroethical issues related to the use of brain imaging: Can we and should we use brain imaging as a biomarker to diagnose chronic pain? Pain: 2012; 153:1555-1559.


Erpelding N, Moayedi M, Davis KD. Brain gray matter reflects pain response strategies during a cognitive interference task. International Association for the Study of Pain: 14th World Congress on Pain, Milan, Italy. IASP Proceedings 2012.


Salomons TV, Davis KD. Fear avoidance and neuroimaging: Falsification or just failure to confirm? Pain: 2012; 153: 511-512.


INVITED VISITS

Davis KD: Technion-Israel Institute of Technology & Rambam Health Care Campus, Haifa, Israel, July 2011. Invited Speaker: Brain Imaging of the Neural Correlates of Pain, Attention and Plasticity.

Davis KD: Tel Aviv University, Sackler Faculty of Medicine, School of Allied Health Professions, Tel Aviv, Israel, July 2011. Invited Speaker: Brain Imaging of the Neural Correlates of Pain, Attention and Plasticity.


Davis KD: BBC Radio 4, United Kingdom, December 2011: The Oath Program on scientific oaths and research ethics [http://www.bbc.co.uk/programmes/b018fllk].

Davis KD: Annual Conference of the Taiwan Association for the Study of Pain, Tainan, Taiwan, Province Of China, March 2012. Keynote Speaker: Individual Factors and Nociceptive Input Contribute to Pain Sensitivity and Brain Abnormalities in Chronic Pain: Clinical Implications and Neuroethical Considerations.


Davis KD: Taipei Veterans General Hospital and National Yang-Ming University, Taipei, Taiwan, Province Of China, March 2012. Invited Speaker: Individual Factors and Noxious Input Contribute to Pain Sensitivity and Brain Abnormalities in Chronic Pain: Clinical Implications and Neuroethical Considerations.


Hamani C: Latin-American Congress of Neurosurgery, Rio de Janeiro, Brazil, April 2012. Invited Speaker: (1) Brain stimulation and memory. (2) Brain stimulation and depression.

Hamani C: Symposium- Society for Biological Psychiatry, Philadelphia, United States, May 2012. Speaker: (1) Deep brain stimulation in the subgenual cingulum for depression. (2) Translational research on deep brain stimulation for depression.

Hamani C: Vanderbilt University, Nashville, United States, April 2012. Visiting Professor: Deep brain stimulation for Depression: Translational aspects.


Tator CH: Medico-Legal Society of Toronto, Toronto, Ontario, Canada, 14 September 2011. Invited Speaker: Concussions can be Prevented, but are Tough To Treat.


Tator CH: American Association for the Advancement of Science (AAAS), Vancouver, British Columbia, Canada, 20 February 2012. Speaker: The Importance of Basic Science: Filling the Pipeline Annual Meeting.


Tymianski M: Canadian Stroke Congress, Ottawa, Ontario, Canada, 4 October 2011. Invited Speaker: Neuroprotection is very much alive as a therapy to support neuronal longevity awaiting recanalization.


Tymianski M: CNSF, Ottawa, Ontario, Canada, 8 June 2012. Chair: 47th Annual Congress Chair/ Moderator of Neurosurgery II Platform Presentation

Tymianski M: 5th World Congress on cerebral revascularization, St Louis, Missouri, United States, 19 January 2012. Invited Speaker: The Excimer laser assisted non occlusive anastomosis ELANA bypass: the Utrecht + Toronto experiences also presented a 2nd lecture: 3-D Demonstration of a high-flow bypass. [Trainee Presentation]


Valiante T: Eastern Association of Electroencephalography, Bromont, Quebec, Canada, 17 February 2012. Invited Speaker: High Frequency Synchronous Activity in the Human Brain during Reading.

**RESEARCH AND INVESTIGATIONS**

A bioengineered approach to to enhance recovery following severe traumatic spinal cord injury. 
Fehlings MG, Shoichet M: Physicians Services Incorporated Foundation (The) [PSI]. ($154,800 2010 - 2012).


Deep Brain Stimulation in an Animal Model of Depression. Hamani C: National Alliance for Research on Schizophrenia & Depression, Young Investigator Award. [ $60,000 USD 2010 - 2012].


Examination of the neuroprotective role of IgG for spinal cord injury. Fehlings MG: Baxter Healthcare Corporation. ($125,000 2010 - 2012).


Human studies of pain perception. Davis KD, Tenenbaum HC, Diamant NE: Canadian Institutes of Health Research (CIHR). [$726,452 2007 - 2012].


Multimodal investigation in epileptogenesis focusing on new models and experimental tools. Cendes I, Hamani C: FAPESP- Fundação de Amparo a Pesquisa do Estado de São Paulo, Brazil (Foundation to Support Research in the State of Sao Paulo). ($178,000 USD 2012 - 2016).


Translational Stroke Research. Tymianski M: Canadian Research Chair-Tier 1. [$1,120,000 2010 - 2017].


TRPM7 Inhibitors for the treatment of stroke and myocardial ischemia. Tymianski M: Ministry of Research and Innovation (MRI) (Ontario), Ontario Research Fund (ORF). [$1,474,417 2011 - 2016].

HONOURS RECEIVED

Hodaie M: Bernard Langer Surgeon Scientist Award, University of Toronto, Department of Surgery, Toronto, Ontario, Canada. 2012.


Lozano AM: Aitken Lecture, University of Western Ontario, Canada. 2011.

Tator CH: Lifetime Achievement Award, American Spinal Injury Association (ASIA). 2011.

Tator CH: Gold Medal of Honour, Health Research Foundation. This award recognizes truly outstanding individuals whose research and/or contribution to public policies supportive of research and development in Canada have achieved international recognition. February 2012.

Tator CH: Reeve-Irvine Research Medal, Reeve-Irvine Research Center, University of California. This medal is given annually to individuals who have made critical contributions to promoting repair of the damaged spinal cord and recovery of function. March 2012.


Tator CH: Safety Award, Ontario Trial Lawyers Association (OTLA). This award is given out to an individual that has made a remarkable and extensive contribution towards enhancing safety awareness in their community in Ontario and prevented injury to those around them. June 2012.

Division of Orthopaedics

Dr. J.R. Davey  Associate Professor
Dr. W.M. Erwin  Assistant Professor
Dr. R. Gandhi  Assistant Professor
Dr. B.A. Graham  Assistant Professor
Dr. J. Lau   Assistant Professor
Dr. S.J. Lewis  Assistant Professor
Dr. N.N. Mahomed  Professor [Division Head]
Dr. K.W. Marshall  Assistant Professor
Dr. D.J. Ogilvie-Harris  Associate Professor
Dr. Y.R. Rampersaud  Associate Professor
Dr. K. Syed  Lecturer
Dr. C.H. Veillette  Assistant Professor
Dr. H.P. von Schroeder  Associate Professor

PUBLICATIONS


Gandhi R, Jan M, Smith HN, Mahomed N, Bhandari M. Comparison of Published Orthopaedic Trauma Trials Following Registration In ClinicTrials.gov. BMC Musculoskeletal Disease: 2011; 12: 278.


INVITED VISITS

Davey JR: Canadian Orthopaedic Association Annual Meeting, St. John’s, Newfoundland and Labrador, Canada, 9 July 2011. Invited Lecturer: Instructional course lecture; the direct lateral approach to the hip.


Lewis S: Medtronic, Frankfurt, Germany, 1 September 2011. Invited Distinguished Faculty: (1) Challenges in the Treatment of Spinal Deformity in the Aging Population: co-morbidities and complications. (2) Reduction objectives and Type of release.


Lewis S: Dallas, Texas, United States, 10 November 2011. Presenter: Spine Deformity Study Group Meeting.


Lewis S: AO Spine - Davos Courses - Switzerland 2011, Davos, Switzerland, 15 December 2011. Invited Lecturer: [1] AOspine Masters Knowledge Forum, Complex Cases # 5, Expert opinion; Complex Case #6, [2] AOspine Masters Knowledge Forum, Complex Cases # 8, Case solution. [3] AOspine Masters Knowledge Forum Complex Cases # 2, AIS-70 deg TX and 30 deg Lx, Lenke 1B or 1C. Key Discussion Aspects: Flexibility assessment and need for releases; Fusion level selection, fusion of 1 or both curves; Operative approach-Anterior vs posterior; Instrumentation strategy, correction techniques and implant materials; Treatment options; Case solution.


Lewis S: Department of Pediatric Orthopaedics, Dana Children's Hospital, Tel Aviv - Yaffo, Israel, 27 December 2011. Visiting Professor: Complex Pediatric Spinal Deformities with and without Osteotomies. Grand Round Lecture.


Lewis S: BroadWater, Park City, Utah, United States, 2 March 2012. Faculty Invited Speaker: Case Discussions: Kyphosis Complications Complication in Pediatric Spinal Deformity Case 4: PJK Issue.

**Lewis S:** Synthes, Halifax, Nova Scotia, Canada, 28 April 2012. Presenter: Deformity Correction Session IV - Deformity Correction. Cases: Traction, Direct Vertebral Rotation, Ponte Osteotomies, Pedicle Subtraction Osteotomies.

**Mahomed NN:** BC Orthopaedic Association - UBC Department of Orthopaedics, Vancouver, British Columbia, Canada, 3-4 May 2012. Invited Lecturer: (1) Health Care Challenges for Orthopaedics in this Decade Symposium: Sustainable Health Care. (2) Osteoarthritis: A New Way to Look at an Old Problem.

**Marshall KW:** Canadian Academy of Sports Medicine, St. John’s, Canada, July 2011. Invited Speaker: The Science of Viscosupplementation: The Significance of Molecular Weight.


**Rampersaud YR:** CAPM&R 60th Annual Scientific Meeting, Toronto, Ontario, Canada, 23 June 2012. Invited Speaker: Back and diagnostics - Practical understanding of diagnostic studies and clinical practice.


**Veillette C:** 2011 Semantic Technology Conference - Semantic Web, San Francisco, California, United States, 9 July 2011: Implementing GoodRelations and eCl@ss Ontologies for a Medical Device Reference Application.


**Veillette C:** Association of Bone and Joint Surgeons, Charleston, South Carolina, United States, 5 May 2012: Wiki publishing and collaborative knowledgebase development in orthopaedics. Invited Lectures and Presentations

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**RESEARCH AND INVESTIGATIONS**


Characterizing the 5-year natural history following total joint replacement for osteoarthritis: Assessing the links with later revision surgery and poorer patient-reported outcomes. Perrucchio A, Gandhi R, Davis A, Badley E, Mahomed N: Canadian Arthritis Network. ($50,000 2012 - 2014).


Minimal Access Ambulatory Spine Surgery Research and Education Program. Rampersaud Y: Toronto General and Western Foudation. ($1,000,000 2007 - 2012).


HONOURS RECEIVED


Veillette C: Award of Merit, Canadian Orthopaedic Association. In recognition of leadership and innovation in orthopaedic informatics, technology, and communications. 2012.


INVITED VISITS


Novak CB: CIHR Institute of Musculoskeletal Health and Arthritis, King City, Ontario, Canada, 11 June 2012. Biomedical & Psychosocial Factors Associated with Disability Following Upper Extremity Nerve Injury.


RESEARCH AND INVESTIGATIONS

Belinda Stronach Chair in Breast Reconstruction Surgery. Hofer SOP: Endowed Donation. ($1,300,000 2008 - present).


Eaton Family Donation. Hofer SOP: Endowed Donation. ($1,080,000 2010 - present).

Hawke Family (BRA) Fund. Hofer SOP: Annual BRA Fundraising Event. ($120,000 2010 - present).


Division of Thoracic Surgery

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

PUBLICATIONS


**INVITED VISITS**

Keshavjee S: Surgical Grand Rounds, University of Virginia, Charlottesville, Virginia, 10 August 2011. Invited Lecturer: Can we engineer ‘super organs’ for transplantation?


Keshavjee S: Trillium Gift of Life Network, Board of Directors Retreat, Toronto, Ontario, 12 September 2011: Can we Engineer “super organs” for Transplantation.

Keshavjee S: Critical Care Canada Forum, Toronto Ontario, Canada, 14 November 2011. Invited Speaker: (1) ECLS as a bridge to lung transplant (2) ECLS Case Presentations.

Keshavjee S: 3rd Joint Cancer Research Symposium, Shanghai, China, 24 November 2011. Invited Lecturer: Can we engineer super organs for transplantation?


Keshavjee S: American Association for Thoracic Surgery, San Francisco, California, United States, 28 April 2012. Invited Speaker: (1) ECMO: Update on Technology and Protocols. (2) Lung Transplantation: Where we are and Where We are going.


Keshavjee S: Emory University School of Medicine, Atlanta, Georgia, United States, 25 May 2012. Invited Lecturer: Ex vivo Repair and Regeneration of Organs for Transplantation.


Waddell TK: Shanghai Jiao Tong University School of Medicine, China, 23 November 2011. Invited Speaker: Regenerative Medicine for Lung and Airway Diseases. 3rd Joint Symposium on Translational Cancer Research.


Yasufuku K: 14th World Conference on Lung Cancer, Amsterdam, Netherlands, 4-5 July 2011. (1) Invited Speaker: Educational Session, Imaging Aspects of Staging in Lung Cancer. EBUS and EUS for N-staging in NSCLC. (2) Invited Speaker: Pro-Con debate, Endoscopic Highlights. TBNA is the issue, not EBUS guided. (3) Session Chair: Nodal Staging by Ultrasound Endoscopy and Alternate Image Guided Diagnosis.


Yasufuku K: The Queen’s Medical Center, Honolulu, Hawaii, United States, 28 October 2011. Visiting Professor: EBUS-TBNA: Clinical Implications for EBUS from a Surgical Perspective.


RESEARCH AND INVESTIGATIONS


Cell Replacement Therapy for Cystic Fibrosis. Waddell TK: Canadian Cystic Fibrosis Foundation. [$245,000 2010 - 2012].


Ex-vivo Gene Repair of Injured Donor Lungs for Transplantation. Keshavjee S: Wyeth Pharmaceuticals/ CIHR, Chair in Transplantation Research. [$1,100,000 2008 - 2013].

GABAergic regulations of airway epithelium in asthma. Lu WY, Inman MD, Liu M: Canadian Institutes of Health Research [CIHR], Operating Grant. ($675,415 2007 - 2012].


Molecular Diagnostic Strategies for the Selection of Donor Lungs Transplantation. Keshavjee S: Roche Organ Transplantation Research Foundation [The] [Switzerland]. [$300,000 2009 - 2012].


The Role of Bone Marrow Progenitors in Lung Regeneration. Waddell TK: Canadian Institutes of Health Research [CIHR]. ($685,000 2007 - 2012).


Transplant Centre Incentive Grant. Keshavjee S, Singer L: Canadian Cystic Fibrosis Foundation. [$54,753.00 2011 - 2013].

**HONOURS RECEIVED**

Keshavjee S: Distinguished Lecturer in Respiratory Sciences Award, Canadian Institutes of Health Research [CIHR], Ottawa. 2012.

Keshavjee S: 2nd Prize for Best paper competition, Society of Chinese Bioscientists in America. February 2012.

Keshavjee S: Zellers Senior Scientist Award, Cystic Fibrosis Canada. March 2012.


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**Division of Urology**

Dr. A. Finelli Associate Professor
Dr. N. Fleschner Professor (Division Head)
Dr. M. Hassouna Professor
Dr. M. Jewett Professor
Dr. G. Kulkarni Assistant Professor
Dr. A. Matthew Assistant Professor
Dr. S. Radomski Professor
Dr. M. Robinette Associate Professor
Dr. J. Trachtenberg Professor

**PUBLICATIONS**


Finelli T. Partial nephrectomy is not the proven standards for stage T1b renal cell carcinoma. Can Urol Assoc J: 2012 Apr; 6(2):131-133.


INVITED VISITS


Finelli A: Local Health Integration Networks 5/6 Cancer Care Ontario Prostate Cancer event, Mississauga, Ontario, Canada, 15 September 2011. Invited Speaker: Pre- and intraoperative strategies to diminish positive surgical margins during radical prostatectomy.


Finelli A: Canadian Update in Surgical Procedures, Chicago, Illinois, United States, 10 November 2011. Invited Speaker: Partial nephrectomy is the optimal treatment for T1b renal cell carcinoma.


Finelli A: Prostate Cancer Canada Network, Toronto, Ontario, Canada, 25 January 2012. Speaker: Traditional vs Laparoscopic vs Robotic-Assisted: Which type of surgery is best for you?

Hassouna MM: University of Mansoura, Urology and Nephrology department, Mansoura, Egypt, 11 April 2012. Invited Lecturer: Physiological Aspects of the Neurogenic Bladder.


Matthew A: Prostate Cancer Canada - Oshawa Chapter, Oshawa, Ontario, Canada, 6 June 2012. Invited Speaker: Treatment for urinary incontinence and erectile functioning.

Trachtenberg J: Montreal, Quebec, Canada, 27 April 2012. Invited Speaker: Focal Therapy Medisys Health Group.


RESEARCH AND INVESTIGATIONS

A 12 week phase 4 randomized double-blind placebo controlled parallel group multicenter trial in overactive bladder subjects to confirm the efficacy of 8 mg fesoterodine compared to 4 mg Fesoterodine. Radomski S, Hassouna M: Pfizer. [$50,000 2011 - 2012].


Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. Venkateswaran V, Fleshner N, Klotz L: Canadian Institutes of Health Research (CIHR). ($92,605 2010 - 2012).

Wyeth/Canadian Institutes of Health Research Clinical Research Chair in Oncology. Jewett M: Canadian Institutes of Health Research (CIHR). ($1,100,000 2008 - 2013).

HONOURS RECEIVED

Finelli A: Michael Jewett Lectureship Award, Urology, Dept of Surgery, Faculty of Medicine. Received award from residents for best lecture given to post graduate urology trainees. [Postgraduate MD]. 2011 - 2012.


Division of Vascular Surgery

Dr. K.W. Johnston  Professor
Dr. T.F. Lindsay  Professor (Division Head)
Dr. G. Oreopoulos  Assistant Professor
Dr. G. Roche-Nagle  Assistant Professor
Dr. B.B. Rubin  Professor
Dr. L.W.H. Tse  Assistant Professor
Dr. D.L. Wooster  Professor

PUBLICATIONS

Peer-Reviewed Publications

Journal Articles


INVITED VISITS


Roche-Nagle G: Surgical Society of Newfoundland, St. John’s, Newfoundland and Labrador, Canada, March 2012. Invited Speaker: Vascular Trauma.


RESEARCH AND INVESTIGATIONS


Role of Group V and Group X secretory phospholipase A2 in the innate immune responses to pulmonary bacterial infection. Rubin BB: Canadian Institutes of Health Research. ($388,520 2009 - 2013).
Women’s College Hospital is a designated facility for ambulatory surgery in the Toronto Central LHIN. Surgical programs, with a focus in Ambulatory Care, continue to be a dominant focus in the structure of Women’s College Hospital as this institution continues to develop as an Academic Ambulatory Surgical Centre that is fully integrated with the hospital’s primary ambulatory strategic plan and current services. Women’s College is developing a fully academic affiliated site for inter-professional research and education in ambulatory surgery focused on minimally invasive and specialized ambulatory procedures and innovative models of systems solutions. These innovations include the expedited discharge in postoperative patients and remote monitoring of patients at home using smart phone technology. Women’s College continues to develop a hub in a city-wide focus in Orthopaedic Sports Medicine and building surgical strength in our core programs of Urology, Orthopedics, Plastic Surgery and General Surgery.

As of September of 2012 we will be 34 weeks from moving into Phase 1 of our new building [attached picture]. Within 6 weeks of the move the old WCH building will be demolished. Completion of Phase II of the building will be in 2015.

NEW STAFF
Twenty four surgeons from eight different hospitals now work at Women’s College Hospital in our key focus areas. We have ongoing recruiting processes in place in orthopaedics and general surgery. Both positions are co recruitments with the University Health Network.

DIVISION REPORTS
Dr. John Theodoropoulos [Orthopaedic Surgery] successfully defended his MSc thesis in the Institute of Medical Science in Cartilage Regeneration. Dr. Theodoropoulos, recently, successfully transitioned his three year CARS process. During this past year he was appointed Head of the Division of Orthopedics at Women’s College Hospital. Dr. Mitch Brown chaired the 12th Annual Toronto Breast Surgery Symposium held this past April. Dr. Tulin Cil was awarded the Wightman-Berris Academy Individual Teaching Performance Award and was appointed the Director of Undergraduate Education for the Department of Ambulatory Surgery at Women’s College Hospital. Women’s College Hospital continues to host international candidates under the Allergan Breast Reconstruction clinical fellowship in the Division of Plastic Surgery.

EDUCATION
Women’s College provides a unique surgical education setting because of its ambulatory mandate. Currently being developed is an ambulatory curriculum with learning objectives specific to ambulatory surgery. We have designated resident rotations in Plastic Surgery, Orthopedics and establishing a resident rotation in General Surgery. The experience rated by undergraduate, resident, fellows and CME is excellent. Teaching volumes have steadily increased over the transition period. A Simulation Education Centre has been established in a multidisciplinary content, with a primary contribution by Orthopaedic Surgery.

RESEARCH
The seven core surgeons at Women’s College Hospital hold a total of 15 active research grants through 2011-2012. They are engaged in a variety of clinical, educational and basic research. Several of them supervise residents and fellows in projects and graduate degree programs.
Division of General Surgery

Dr. T. Cil  Assistant Professor  Dr. G.Y. Hiraki  Assistant Professor  Dr. L. Lickley  Professor

PUBLICATIONS


INVITED VISITS


Cil, Tulin: Canadian Conference on Medical Education, Banff, Alberta, Canada, 16 April 2012. Presenter: How Web-based Learning Compliments Medical Education.

RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED

Cil T: Surgical Education Research Fellowship, Association of Surgical Education. 2011 – 2012.

Cil T: Wightman-Berris Academy Individual Teaching Performance Award, General Surgery, Department of Surgery, Faculty of Medicine, University of Toronto. (Postgraduate MD). 2011 – 2012.

Division of Orthopaedics

Dr. L. Murnaghan  Assistant Professor  Dr. J. Theodoropoulos  Assistant Professor

PUBLICATIONS


INVITED VISITS AND PRESENTATIONS


Murnaghan ML: Association for Medical Education Europe, Austria, August 2011. Presenter: Getting Up the Next Morning: Surgeons reactions to adverse events in the operating room.


Theodoropoulos J: NHL Team Physicians Meeting, Ottawa, Ontario, Canada, 28 January 2012: High Ankle Sprain in NHL Hockey


RESEARCH AND INVESTIGATIONS


Division of Plastic and Reconstructive Surgery

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor

PUBLICATIONS


INVITED VISITS


Brown MH: Division of Plastic and Reconstructive Surgery, Emory University, Atlanta, Georgia, United States, 13 January 2012. Invited Speaker: Revision in aesthetic breast surgery.

Brown MH: Southeastern Society of Plastic and Reconstructive Surgeons, Atlanta, Georgia, United States, 13-14 January 2012. Invited Speaker: (1) Tissue expander vs. Direct to implant breast reconstruction: Options and economics. (2) Implant selection in breast surgery - review of 1700 cases.


RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED


Division of Urology

Dr. E.D. Grober Assistant Professor

PUBLICATIONS


INVITED VISITS


Grober ED: European Urology Association - Canadian Urology Association. Toronto, Ontario, Canada. How Do You Know You Can Operate on Real Patients?

Grober ED: Paladin Labs CUA Meeting 2012 Banff, Alberta. Toronto, Ontario, Canada. (Continuing Education). Testosterone Deficiency Syndrome – From Concept to Treatment.

RESEARCH AND INVESTIGATIONS


Division of Anatomy

Dr. A. Agur                  Professor
Dr. B. Ballyk                Senior Lecturer
Dr. P. Koeberle              Assistant Professor
Dr. J. Laprade               Lecturer
Dr. C.M. Morshead           Associate Professor (Division Head)
Dr. H.S. Sun                 Assistant Professor
Dr. I.M. Taylor              Professor
Dr. M.J. Wiley               Professor

PUBLICATIONS


Piccin D, Morshead CM. Wnt signaling regulates symmetry of division in adult neural stem cells. Stem Cells 29:528-538, 2011.


INVITED VISITS

Laprade J: Mini-workshop for PTs & PTAs, Trenton, Canada, 6 November 2011. Exercise in Osteoporosis: How to Safely Guide & Adapt.


Morshead CM: Society for Neuroscience, Washington, DC, United States, October 2011. (1) Adult-derived primitive neural stem cells are a distinct population that can be manipulated independent of definitive neural stem cells. (2) Senescent neural stem cells in the aged brain are responsive to signals from the young adult brain. (3) The targeted ablation of GFAP expressing neural stem cells reveals novel LIF-responsive neural stem cell in the adult mouse brain.

Morshead CM: CUOH (Canadian Undergraduate Conference on Health care), Queen’s University, Kingston, Ontario, November 2011. Invited Speaker: Adult Neural Stem Cells: From basic biology to tissue repair.


Sun HS: University of Hong Kong, Hong Kong, July 2011. Ion Channels in Cerebral Ischemia and Neuroprotective Target for Stroke.

Sun HS: ZhongShan School of Medicine, Sun Yet-Sen University, Guangzhou, China, July 2011. Role of Ion Channels in Neuroprotection and Stroke.

Sun HS: Chinese Academy of Sciences, Shanghai Institute of Materia Medica, Shanghai, China, July 2011. Role of Ion Channels in Cerebral Ischemia and Potential Therapeutic Target for Stroke.

Sun HS: Fudan University, Shanghai, China, July 2011. Role of Ion Channels in Cerebral Ischemia and Stroke.

RESEARCH AND INVESTIGATIONS


Grant-in Aid. Sun HS. Heart and Stroke Foundation of Canada ($128,000 2011 – 2013).


HONOURS RECEIVED

Ballyk BA: W.T. Aikins Award for Excellence in Undergraduate Teaching within the Faculty of Medicine, University of Toronto. (Undergraduate MD). 2011.
Research In Education

Dr. S. Kitto  Assistant Professor
Dr. R.R. Sonnadara  Assistant Professor
Dr. N. Woods  Assistant Professor

PUBLICATIONS


INVITED VISITS


**Sonnadara RR.** Sport Leadership Meeting, Toronto, 2011. Tapering for Performance.

**Sonnadara RR.** International Conference on Residency Education, Quebec City, 2011. Orthopaedic Boot Camp II: Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.


**Sonnadara RR.** Association for Surgical Education Meeting, California, 2012. A new approach to evaluating technical resident performance.

**Sonnadara RR.** American College of Surgeons Accredited Educational Institutes Consortium Meeting, Chicago, 2012. 1/ Orthopaedic Boot Camp III: Examining the efficacy of self-regulated learning during an intensive laboratory-based surgical skills course. 2/ Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.

**Sonnadara RR.** Canadian Orthopaedics Association Meeting, Ottawa, 2012. Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.

**Sonnadara RR.** Canadian Conference for Medical Education, Banff, 2012. Examining retention rates for skills taught through an intensive laboratory-based surgical skills course.

RESEARCH AND INVESTIGATIONS


Developing and assessing preparation for future learning in medical students. Mylopoulos M, Woods NN. Medical Council of Canada. [$34,897 2011-2012]


Hand Hygiene Compliance. St. Michael’s Hospital. Kitto S, Yeung E, Reeves S. Division of General Internal Medicine, Department of Risk Management & Quality Improvement and the Knowledge Translation Program. [$22,000 2011-2012]


Pressures on surgeons to ‘measure up’ and their effects on surgical judgment. Moulton CA, Murnaghan ML, Martimianakis MA, Kitto S. Physicians Services Incorporated Foundation (The) [PSI]. ($99,043 2011-2013)

Qualitative Analysis of the HPB Community of Practice. University of Toronto. Kitto S, Gallinger S, Moulton CA. University of Toronto. ($26,500 2010-2012)


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Cross Appointments

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<td>Dr. B. Bapat</td>
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