Department of Surgery Annual Report
July 1, 2006 – June 30, 2007

R.S. McLaughlin Professor and Chair
Dr. R.K. Reznick

Associate Chair and Vice-Chairs
Dr. B.R. Taylor – Associate Chair
Dr. J.A. Bohnen – Vice-Chair, Education
Dr. R. Richard – Vice-Chair, Clinical
Dr. B. Alman – Vice-Chair, Research

Surgeons-in-Chief
Dr. J.G. Wright – The Hospital for Sick Children
Dr. J.S. Wunder – Mount Sinai Hospital
Dr. L.C. Smith – St. Joseph’s Health Centre
Dr. O.D. Rotstein – St. Michael’s Hospital
Dr. R. Richards – Sunnybrook Health Sciences Centre
Dr. L. Tate – Toronto East General Hospital
Dr. B.R. Taylor – University Health Network
Dr. J.L. Semple – Women’s College Hospital

University Division Chairs
Dr. M.J. Wiley – Anatomy
Dr. R.D. Weisel – Cardiac Surgery
Dr. Z. Cohen – General Surgery – Bernard and Ryna Langer Chair
Dr. J.T. Rutka – Leslie Dan Professor and Chair of Neurosurgery
Dr. B. Alman – A.J. Latner Professor and Chair of Orthopaedic Surgery
Dr. D.J. Anastakis – Plastic Surgery
Dr. S. Keshavjee – Thoracic Surgery
Dr. S. Herschorn – Martin Barkin Chair in Urological Research
Dr. T. Lindsay – Vascular Surgery
TABLE OF CONTENTS

Report from the Chair...................................................................................................................... 4
Undergraduate Education .................................................................................................................. 6
Postgraduate Education .................................................................................................................. 7
Research ........................................................................................................................................ 8
Division of Anatomy .......................................................................................................................... 9
Division of Cardiac Surgery ............................................................................................................. 10
Division of General Surgery ........................................................................................................... 12
Division of Neurosurgery ................................................................................................................ 16
Division of Orthopaedic Surgery .................................................................................................... 18
Division of Plastic Surgery ............................................................................................................. 20
Division of Thoracic Surgery ......................................................................................................... 21
Division of Urology ........................................................................................................................ 22
Division of Vascular Surgery ......................................................................................................... 26
Surgical Alumni Association ............................................................................................................ 28
Surgical Oncology ........................................................................................................................... 29
Continuing Professional Development .......................................................................................... 30
The Hospital for Sick Children ........................................................................................................ 32
    Division of Cardiac Surgery ....................................................................................................... 34
    Division of General Surgery ...................................................................................................... 37
    Division of Neurosurgery .......................................................................................................... 41
    Division of Orthopaedic Surgery .............................................................................................. 45
    Division of Plastic Surgery ....................................................................................................... 52
    Division of Urology .................................................................................................................. 55
Mount Sinai Hospital ....................................................................................................................... 58
    Division of General Surgery ...................................................................................................... 60
    Division of Orthopaedic Surgery .............................................................................................. 64
    Division of Plastic Surgery ....................................................................................................... 67
    Division of Urology .................................................................................................................. 68
St. Joseph’s Health Centre ............................................................................................................... 70
    Division of General Surgery ...................................................................................................... 71
    Division of Orthopaedic Surgery .............................................................................................. 72
    Division of Plastic Surgery ....................................................................................................... 72
    Division of Thoracic Surgery .................................................................................................... 73
    Division of Urology .................................................................................................................. 73
<table>
<thead>
<tr>
<th>Institution</th>
<th>Division</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Michael’s Hospital</td>
<td>Division of Cardiovascular and Thoracic Surgery</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>Division of General Surgery</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>Division of Neurosurgery</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Division of Orthopaedic Surgery</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>Division of Plastic Surgery</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>Division of Urology</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>Division of Vascular Surgery</td>
<td>100</td>
</tr>
<tr>
<td>Sunnybrook Health Sciences Centre</td>
<td>Division of Cardiac and Vascular Surgery</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td>Division of General Surgery</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>Division of Neurosurgery</td>
<td>106</td>
</tr>
<tr>
<td></td>
<td>Division of Orthopaedic Surgery</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>Division of Plastic Surgery</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>Division of Urology</td>
<td>122</td>
</tr>
<tr>
<td>Toronto East General Hospital</td>
<td>Division of General Surgery</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td>Division of Plastic Surgery</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Division of Orthopaedic Surgery</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Division of Thoracic Surgery</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>Division of Urology</td>
<td>131</td>
</tr>
<tr>
<td>University Health Network</td>
<td>Division of Cardiac Surgery</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td>Division of General Surgery</td>
<td>134</td>
</tr>
<tr>
<td></td>
<td>Division of Neurosurgery</td>
<td>141</td>
</tr>
<tr>
<td></td>
<td>Division of Orthopaedic Surgery</td>
<td>151</td>
</tr>
<tr>
<td></td>
<td>Division of Plastic Surgery</td>
<td>166</td>
</tr>
<tr>
<td></td>
<td>Division of Thoracic Surgery</td>
<td>169</td>
</tr>
<tr>
<td></td>
<td>Division of Urology</td>
<td>171</td>
</tr>
<tr>
<td></td>
<td>Division of Vascular Surgery</td>
<td>175</td>
</tr>
<tr>
<td>Women’s College Hospital</td>
<td>Division of Anatomy</td>
<td>184</td>
</tr>
<tr>
<td></td>
<td>Research in Education</td>
<td>186</td>
</tr>
<tr>
<td></td>
<td>Cross Appointments</td>
<td>189</td>
</tr>
</tbody>
</table>
Report from the Chair

Richard K. Reznick
R.S. McLaughlin Professor and Chair

It is hard to believe that as I write this column for our annual report that I am coming to the end of a first term as Chair of this Department. These last five years have been an incredible odyssey. If you had asked me five years ago would I have been able to predict some of the seminal events of my time as Chair, the answer would have been surely no. So many things to be proud of! To paraphrase Collins, the success of any organization is all about getting the right people on the bus. In our case, it’s about 10 buses! Our faculty is strong and getting stronger each year. We currently have approximately 220 full time faculty, 30 part time, 55 adjunct faculty, and 25 research scientists. In the last five years you have seen your department grow through the recruitment of 50 new surgeons and scientists. We have recently instituted a policy that will see all new recruits to our surgical faculty as the successful candidate in a formal search process. We have entered into 31 practice plans. Our postgraduate program now consists of eleven residencies that train in excess of 200 future surgeons. We have developed a comprehensive plan that coordinates the activities of a large fellowship program that now trains over 175 surgeons from 15 countries. We have extended benefits to our surgeons in terms of family health coverage, day care and critical illness insurance. We have in excess of 45 million dollars of external funding, beyond the aggressive benchmarks we set for ourselves in our last strategic plan. We have doubled the size of our skills lab, developed a new innovative curriculum for our medical students, and more vitally engaged our partially affiliated teaching hospitals in our Department. We are about to embark in a proof of principle study to model and test an innovative postgraduate curriculum. This is a great Department and it has been a privilege to serve as its Chair for the last five years.

Last year I announced the inception of two new programs to the Department, one offering day care for our faculty and another offering benefits to those who don’t have them through other sources. I am pleased to report that both programs are off the ground, and many faculty have availed themselves of these benefits. We are now expanding the day care program to include a new facility closer to faculty who work at Sunnybrook. This past year we have introduced a new benefit to all full time faculty under age 57. Hopefully no one will have to use it, but in the event that a faculty member develops one of 22 critical illnesses, he or she will receive a lump sum benefit.

With the introduction of the new clinical faculty policy we have worked hard at insuring that all 31 of our practice plans are consistent with one of our three departmental templates. I am pleased to report, that this past year has seen the first wave of accountability reports which encouragingly show a transformation from previous financial management to one that is better structured to reward academic efforts. This 2 1/2 year challenge has proven extremely important. We are about to be the beneficiaries of additional alternate funding plan monies, 30% of which are earmarked towards teaching and research. It is your Chair’s position, and one that is a starting point for dialogue, that the academic AFP monies become part of the redistribution pool that is modulated through annual academic performance appraisal. This recommendation has been discussed at our finance and senior executive committees and will now be brought to our 31 groups in the form of a business summit to be held this fall.

What I remember most of the last five years is the hundreds of hours of speaking with our faculty; often just catching up with business, frequently giving solicited or unsolicited advice, and occasionally peering deep into the meaning of academic life. I have been impressed that as one gets older, the relationship with our academic institution becomes increasingly important. Perhaps it’s the idea of what kind of legacy we will leave, perhaps sentimentality, or perhaps just pride in one’s academic accomplishments. What is clear is that for most of our surgeons, being a faculty member of this university is a source of great pride and accomplishment.

I remember, as we all do, the magnitude of SARS, as it rocked our city, paralyzed our medical world, and reminded us of the inadequacy of our medical knowledge. Humbling moments!

What has also been striking over the last five years is the sheer volume of work. D.R. Wilson, Bernie Langer and John Wedge warned me of the marathon that typifies a Chair’s term. Well they were right, but I would suggest that a more apt analogy is that this job is a tsunami of work, with one finished wave of work being followed by another.
However, the feature that has been most powerful is the incredible talent within the Department. The surgical expertise is astounding. Images of Andrew Pierre performing a lung transplant, Loch McDonald clipping a cerebral aneurysm, Pippi Salle correcting a complex urogenital malformation, Mike McKee restoring function after a complex fracture, Rob Zeldin removing a lung, Vern Campbell doing a fem-tib bypass, Mark Peterson doing his first endovascular repair, Brent Graham re-implanting a severed digit, John Semple restoring form and function after cancer, Calvin Law doing a trisegmentectomy...these are the enduring images.

Finally, in reflection of our academic mission I am staggered by our faculty’s dedication to teaching, their devotion to research and their strong desire to embrace the academic ideal. Indeed, as I look over the last five years we have had tremendous growth in our peer reviewed funding and, under Ben Alman’s leadership, the ongoing success of our Surgeon Scientist Program. In fact, this past year we expanded this program to embrace a more eclectic approach to scholarship, with the creation of a new program called Scholarship in Surgery. As an inaugural experience, we have three surgical trainees actively pursuing their MBA, gaining skills they will hopefully bring back to the Department.

On a personal note, I would like to thank all in our Department for their support in my first term as Chair. I have received nothing but encouragement from you and nothing but support for new initiatives. I have certainly worked harder than ever before, but each moment is filled with important challenges and most importantly a deep respect I have learned for the caliber of individuals in this department.
The Department of Surgery Undergraduate Education Committee (UEC) spent the 2006-2007 academic year fortifying recent major changes to the undergraduate curriculum while implementing several new programs. In addition, the UEC monitored developments in the Mississauga campus and ensured that surgical interests were always kept in mind.

The “Crash Course in Surgery” week for phase I students completed its second year and has become an integral component of clerkship. Evaluations of the course were reviewed regularly and contributed to ongoing improvements. In addition to fulfilling many educational needs, the Crash Course week also serves as a central meeting point where improved orientation can occur and an entire rotation of students may be addressed in unison.

A phase II course module in “Palliative Care and Acute Pain Management” was approved by the UEC last fall and the course ran throughout the academic year. This program aims to fulfill a missing educational need and is unique among clerkship courses.

The UEC approved the appointment of Dr. Yaron Shargall as the new director of the Foundations of Medical Practice course. Dr. Shargall replaced Dr. Robert Mustard who has served with distinction in this position for many years.

This academic year the UEC guided the initiation of the new clerkship evaluation system called MedSIS. This system is a very powerful software package that allows improved detail and efficiency in the evaluation of both students and faculty supervisors. While MedSIS is certainly not without its faults, the implementation has gone remarkably smoothly thanks to the efforts of our faculty.

The UEC approved a modification of the standard post-rotation debriefing reports that Dr. Nicole Woods conducts. Dr. Woods now performs these reviews for year III and year IV per rotation. This results in 11 debriefing reports per year.

As Chair of the UEC, I would like to thank all members for their contributions and in particular the two student representatives, Tasnim Vira and Ron Somogyi.
The staff surgeons, residents and fellows of our 11 Royal College of Physicians and Surgeons (RCPSC) residency programs experienced a year rich with activity and accomplishment, culminating in full approval for all programs at Royal College accreditation, evolution of CanMEDS roles education, and program expansion. At the helm were the program directors Drs. Gail Darling (Thoracic Surgery); Bill Kraemer (Orthopaedic Surgery); Ron Kodama (Urology); Ted Gerstle (Paediatric General Surgery); David Latter (Cardiovascular Surgery); Ron Levine (Plastic Surgery); Tom Lindsay (Vascular Surgery); Lorne Rotstein (General Surgery); Marcus Burnstein (Colorectal Surgery); Carol Swallow (General Surgical Oncology); and Chris Wallace (Neurosurgery); and their hard-working assistants Lisa Spatafora, Dan Stojimirovic, Antonella Iannaccio, Shannon Hannah, Willa Hart, Shibu Thomas and Gayle Burke, Leah Gabriel, Jan McEvoy (General Surgery/General Surgical Oncology), Jane Hanes and Sandi Amaral.

Surgery entry level programs (Cardiac, General, Neuro, Orthopaedics, Plastics and Urology) filled all first year positions in July 2006 through the Canadian resident match. In all, 256 trainees participated in our 11 residency programs; 216 clinical and research fellows came from many countries to enrich us and achieve post-residency training and 39 elective residents came from other sites to experience Toronto programs. Residents finishing Core Surgery and those completing their training were highly successful once again in the RCPSC, POS and fellowship exams respectively. Twenty-six residents received research training within the Surgeon Scientist Program, led by Dr. Ben Alman, our Vice-Chair, Research. Many residents earned peer reviewed funding, published in high impact journals and won prizes at international research societies; some developed health administration expertise in our Scholarship in Surgery Program.

Each program director, their assistants and the residents themselves planned curricula; guided trainees personally; prepared them for exams and clinical practice; and organized social events. At the department level, the Surgical Skills Centre supported skills training for all resident years under the leadership of Director, Dr. Helen MacRae and Manager, Ms. Lisa Satterthwaite. Core Surgery residents (first two years) attended educational series to build practice foundations. Dr. Bob Mustard ran the highly rated Principles of Surgery (POS) Lectures and practice POS exam. Core Surgery residents attended two Resident Forum sessions to give feedback on their experiences, and participated in the annual Surgeon in Society Symposium, whose theme this year was resident wellness. At Career Night, program directors and residents helped advertise their specialties to medical students interested in Surgery; and at Orientation Day, first year residents met with education leaders. First and third year residents attended the Residents as Teachers workshop run by Drs. John Murnaghan and Nikki Woods. Dr. Jameel Ali led the department’s Advanced Trauma Life Support Course for Core Surgery residents. Our Annual Fellow Barbecue was held in July - fellows, their families and supervisors socialized in an informal setting. Dr. David Latter, our Director of Clinical Fellowships, worked with fellowship leaders to improve the fellowship infrastructure and try to iron out some kinks in the application process – a work in progress.

The growing number of hospital, divisional and departmental teaching awards attests to the enormous efforts and successes of our faculty and resident teachers, and the increasing recognition that work receives. Among the key departmental awards, Dr. Ron Levine, Program Director of the Plastic Surgery Program, won the Tovee Award for sustained, outstanding contributions to postgraduate training and Dr. Allan Eckhaus, a budding plastic surgeon, won the D. R. Wilson Education Prize for outstanding teaching of medical students by a surgical resident. Congratulations Ron, Allan and Plastic Surgery!

The RCPSC accreditation team visited us in April 2007 to evaluate our programs against ever-higher standards. Each Program Director, assistant and numerous faculty spent months preparing materials and orchestrating agendas and demonstrations. The outcome of our performance (subject to final word from the RCPSC) - full approval for all Surgery programs – attests to the hard work and enthusiasm of the Program Directors and their assistants; faculty surgeons; residents; chairs and chiefs of the divisions and hospital departments; Chair Richard Reznick; and postgraduate Vice-Dean, Dr. Sarita Verma and her staff. The accreditation team identified very few weaknesses and many strengths, and praised the Program Directors and teachers for their commitment and excellence.

Besides teaching the cognitive and technical aspects of practice, our programs strive to achieve greater sophistication in the provision and evaluation of the humanistic “CanMEDS roles” such as collaborator, communicator and health professional. A successful pilot Humanism OSCE, run by Dr. Alexandra Easson and colleagues for General Surgery residents, used simulated patients and scenarios to teach and evaluate skills in handling difficult interpersonal situations. Other innovations such as training our first resident in a combined program in Surgery and Medical Imaging demonstrate that the change will continue to shape our programs.

Driven by societal need and education performance, our programs are expanding the numbers of residents they add each year, both Canadian and outside-trained. We are making a great impact on physician human resources and the health of Canadians.

Urology Program Director, Dr. Ron Kodama, stepped down after a decade of outstanding leadership; we welcome Dr. Rob Stewart as Ron’s successor. I will step down as Postgraduate Director in 2007. I will miss the wonderful relationships with the hundreds of bright and dedicated residents who come through our programs, an amazing group of friends and colleagues! Let us all give a huge thanks for the exceptional work of our administrative support team of Tess Weber, Andrea Charlesworth and Jean DeFazio.
Our department continues its strong tradition of research excellence. There is a broad range of research activities in our department, including investigations in education, clinical epidemiology, applied engineering, and fundamental biology. In addition to clinicians engaged in the generation of new knowledge in these areas, there are close to forty non-clinician scientists appointed in our department. These individuals are working in the broad range of disciplines represented by the full scope of our departmental activities. The accomplishments of our non-clinician scientists are quite remarkable, as they account for a substantial proportion of our total research activities. This year, Andras Kapus was appointed as our Associate Vice-Chair Research, a new position to help better integrate our non-clinician scientists into our department. Andras has already instituted new initiatives towards this end, and I am sure in coming years we will see improved integration which will help to build new research initiatives within our department.

Our research productivity continues to grow at an astonishing rate. There have been hundreds of publications from our faculty members this past year, including some in the highest impact journals, such as *New England Journal of Medicine*, and *Nature* series journals. Our faculty has given research presentations throughout the globe and participated in over a hundred national and international research meetings. Our research growth is perhaps best illustrated by our phenomenal increase in research funding. Despite the increased competitiveness of research funding from the Canadian Institutes for Health Research, the department continues to receive increasing support from this agency, with close to $9,000,000 in funding received this past academic year. Our total research funding has shown an even more impressive rate of growth, now exceeding $45,000,000. This funding is not limited to one division or one hospital, but is distributed throughout the faculty, showing the strong integration of research throughout the entire department.

The Surgeon-Scientist Program continues to grow, with over forty residents participating this year. Over 90% of our Surgeon-Scientist Program participants were successful in receiving full or partial salary support from external granting agencies. Johnson & Johnson Medical Products continues to support the Surgeon-Scientist Program, providing funding to four trainees this year (Karen Cross, Gregory Hworyluk, Paul Kuzyk, Steve Singh). Because advances in medicine may come in a variety of forms from a variety of areas, it is important that we take advantage of the broad range of academic endeavors that could strengthen our department and surgery in general. The Scholarship in Surgery Program was initiated two years ago to provide graduate level training in non-traditional streams. Five residents are participating in the program this year, and these individuals will undoubtedly bring new areas of scholarship to our specialty.

The theme for our 33rd Gallie Day was trauma and critical care. There were talks by trainees in our Surgeon Scientist Program, as well as 50 poster presentations by a variety of trainees working with members of our faculty. The broad range of topics and types of trainees highlighted the diverse, yet high quality research being conducted in our department. Fred Brenneman organized and moderated an exciting symposium entitled “Advances in Trauma Management: Taking the Critical out of Critical Care.” Michael Fehlings, Joanne Banfield, Sandro Rizoli, and Avery Nathens discussed new advances in trauma research and management in Toronto, including trauma prevention, a systems approach to organizing trauma care, the use of new resuscitation techniques, and the development of new treatments to improve neural recovery in spinal cord injury. The exciting advances in these areas were complemented by the Gordon Murray Lecturer, Dr. Timothy Buchman, from Washington University in St. Louis, Missouri, who gave a fascinating lecture entitled: “Are There Fundamental Laws of Biology.” He discussed how we tend to view physiologic information about patients as isolated variables, yet it is clear that multiple physiologic variables interact in a coordinated fashion to allow for normal function. How these interactions relate to normal physiologic functions is something we usually do not consider. In his talk, Tim showed how seemingly unrelated biologic processes actually work together in a coordinated manner on a micro and macro scale. In the clinical realm, this is best illustrated in the care of critically ill trauma patients, where he presented data showing that coordinated activity of various physiologic systems (e.g., cardiac and pulmonary) is a better predictor of outcome than measurement of the function of individual systems.

The Gallie Bateman Award for best work by a trainee in the Surgeon Scientist Program went to Lynn A. Mikula (supervisor: Dr. S. Gallinger), with a tie for second place to Patrick S. Tawadros (supervisor: Dr. O.D. Rotstein) and George Zogopoulos (supervisor: Dr. S. Gallinger). There was a tie for first place for the McMurrich Award, given for the best fundamental science work by any level trainee working with a member of our department. This went to Phedias Diamandis (working with Peter Dirks) and Hong-Shuo Sun (working with Michael Tymianski). There were seven second prize winners: Hong Cui (working with Michael Tymianski), Louisa Ho (working with Andras Kapus), William Johnson (working with Thomas Lindsay), Eli Kakiashvili (working with Katalin Szaszi), Colleen Wu (working with Jay Wunder & Benjamin Alman), Helan Xiao (working with Mingyao Liu), and Matthew Zuly (working with Andras Kapus). The Wyeth Award for best clinical epidemiology or education based research poster was awarded to Barbara Haas (working with Avery B. Nathens) and there were three second place awards given to Ulrich Guller (working with Natalie Coburn), Humberto Lara-Guerra (working with Thomas Waddell), and Mohammed Zamakhshary (working with Jacob Langer).

Faculty accomplishments in the past year were astonishing. There were too many awards and honors to list all of them, and most of the awards are listed in the activities of the individual hospitals and divisions. Some of the highlights from the past year include: Nancy Baxter, who received the Langer Surgeon Scientist Award (given to the most outstanding graduate of the Surgeon-Scientist Program); Vivek Rao, who received the George-Armstrong Peters Prize (awarded to a young investigator); John Marshall, who received the Charles Tator Surgeon Scientist Mentoring Award; and Michael Fehlings, who received the Lister Award (awarded for excellence in research by a senior investigator).
Departmental members received a large number of grants this year but, of note, 20% of the Heart and Stroke Foundation grants awarded this year went to our faculty members. This is an incredible accomplishment and illustrates the prominence of our research on the national scene. The Departmental Research Committee continued its strong work on expanding the breadth of research activities in the Department, establishing links to emerging research areas, improving the links with the non-clinician scientists in the Department, developing standardized evaluations for faculty, and reorganizing Gallie Day and research educational activities.

I want to give special thanks to Val Cabral for her co-ordination of all aspects of the Departmental research activities.

Research plays a prominent role in our department and we have made fantastic accomplishments in the past year. In the upcoming years, our research activities will continue to grow, 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.

The academic programs in the Anatomy Division remain strong and the numbers of students registered in our courses continues to grow. Construction work has been completed to create more teaching laboratory space for the medical class and additional renovations are underway to accommodate a doubling in the number of Arts and Science students that the Division can accommodate. This year the Division registered 23 senior undergraduate science students in the ANA498YI Independent Research Project course. This course offers an opportunity for undergraduates to gain valuable research experience working in the laboratories of faculty in the Department of Surgery, and is excellent preparation for graduate studies.

### New Faculty

Dr. Soheila Karimi-Abdolrezaee was cross-appointed to the Division of Anatomy where she collaborates in neuroscience research with Cindi Morshead and contributes to teaching neuroanatomy in the Brain and Behaviour course in the first year of the medical program. Dr. Karimi-Abdolrezaee’s primary appointment is in the Division of Neurosurgery. With Bernie Liebgott’s retirement, Dr. Reena Talwar has taken over teaching dental anatomy. Dr. Talwar received her Ph.D. from Baylor University and has previously held a faculty appointment at the University of Kentucky. Dr. Paulo Koeberle, who has joined the Division as an Assistant Professor in the tenure stream has succeeded in obtaining funding from the Canada Foundation for Innovation LOF/Ontario Research Fund, the Connaught Foundation, and the Glaucoma Research Society. Dr. Koeberle studies the molecular mechanisms of neuronal degeneration and regeneration after traumatic CNS injury and stroke.

### Promotions

Dr. Anne Agur was promoted to the rank of Full Professor and Dr. Barbara Ballyk was promoted to Senior Lecturer.

### Students

Ms. Soo Kim was awarded the Sandy Marks Student Poster Presentation Award and Mr. Mayoorenda Ravichandiran received the Ralph Ger Student Platform Presentation Award at the annual meeting of the American Association of Clinical Anatomists. Mr. Kajeandra Ravichandiran was awarded the James H. Richardson Fellowship in Anatomy and Ms. Soo Kim was awarded the first Harland-Smith research Fellowship in Anatomy. All are students of Anne Agur.
Overview

The Division of Cardiac Surgery continues to respond to the opening of three community cardiac surgical units and the decrease in wait times for cardiac procedures. After extensive discussions with all institutions and physician stakeholders, a plan was presented to Drs. Barry Monahan and Alan Hudson who forwarded the proposal to the Ministry of Health. The plan described an integrated cardiac surgical group with coordinated delivery of care at all three adult hospitals. The plan will improve the access to specialty procedures in cardiac surgery and create a single AFP for the cardiac surgeons. The “virtual” integration of the services will facilitate the movement of surgeons and patients among the three institutions.

In addition, cardiac surgeons continue to develop their expertise in minimally invasive cardiac procedures. The Hospital for Sick Children developed a hybrid approach to many surgical repairs with both intravascular and intrathoracic procedures being accomplished simultaneously in a single operating suite with active collaboration of surgeons, cardiologists and radiologists. Each of the adult hospitals has also developed programs to provide intravascular repair of thoracic aortic pathology, and they have evaluated hybrid procedures such as the transapical (intraoperative) transcatheter insertion of an aortic valve. In addition, all hospitals have explored the use of hybrid procedures such as an internal thoracic artery bypass combined with stent implantation.

Research in cardiac surgery has been outstanding. Clinical research has been coordinated by Dr. Stephen Fremes at Sunnybrook and basic research has been located at UHN (regenerative medicine) and St. Michael’s Hospital (vascular biology). The Hospital for Sick Children attracted the leadership of the Congenital Heart Surgeon’s Database, and Dr. Eugene Blackstone (a world-renown clinical epidemiologist) was appointed to our Division. Drs. Chris Caldarone and John Coles have a productive basic research laboratory. The surgeons and affiliated scientists at all four hospitals have been able to attract outstanding peer-reviewed funding. In addition, CFI funding has dramatically expanded the facilities and equipment available for research. A recent NIH grant application for clinical research demonstrated the depth and breadth of the research efforts of the Division.

Dr. David Latter has developed an outstanding residency program in cardiac surgery and the creation of the University fellowship program has revealed the popularity and importance of the cardiac surgery fellowship to academic cardiac surgery. Each of the residents has attained a high degree of academic training and every graduating resident has found a position in academic cardiac surgery in Canada or the US. In summary, the Division has faced significant challenges with the decrease in volumes and elimination of the waiting lists for cardiac procedures. However, case numbers have stabilized and the surgeons have developed new minimally invasive procedures. The Division remains the most academically productive unit in the world. Our residency program has produced a generation of surgeon scientists and the older surgeons continue to innovate and spread the word. We have greater breadth and depth to our academic programs than any other cardiac surgical unit in the world. However, the specialty is changing and we will need to change the procedures we do and change the training we provide for our residents and fellows.

Grants and Fellowships

Between 2002 and 2006, the Division received a total of 16 grants from the Canadian Institutes of Health Research, the Heart and Stroke Foundation, the Canadian Diabetes Association and from industry.

In 2006-2007, we received $14.4 million over five years for the Regenerative Medicine (REMEDI) Project from the Canadian Foundation for Innovation. Our team grant submission to the Canadian Institutes of Health Research was also successful and we were awarded $2,182,550.00 over five years for our Cardiac Regeneration Project (CARE).

Nine Fellowships were awarded to the staff and residents by the Heart and Stroke Foundation, the Canadian Institutes of Health Research and the Physicians’ Services Incorporated (PSI) Foundation.
Visiting Professors

Over the past four years, we have had the following Visiting Professors:

1. Dr. Patrick McCarthy
2. Dr. David H. Adams
3. Professor Sir Magdi Yacoub
4. Dr. Marc Gillinov
5. Professor Philippe Menasche
6. Dr. Mehmet Oz
7. Dr. R. Scott Mitchell

In June 2007, Dr. Wolfram Zimmermann was invited on behalf of the Regenerative Medicine Program at the Toronto General Research Institute to present at the International Society of Tissue Engineering and Regenerative Medicine. Dr. Dennis Mangano gave the Bigelow Lecture in October 2007.

Resident Seminars

Over the past five years, the Residents’ Seminars have been scheduled Friday mornings at the Toronto General Hospital and St. Michael’s Hospital between 9:30 and 11:30 a.m. Faculty from all four sites have been scheduled to present during the first hour and the residents present their research during the second hour.

Coach House Seminars

Four Coach House Seminars are scheduled each academic year which are sponsored by industry and hosted by each of the four hospitals, one seminar per year, held at the Sunnybrook Estates.
Accomplishments

We had a very positive external review of our program in general surgery conducted by the Royal College of Physicians and Surgeons of Canada. In addition, our affiliated programs received full accreditation, namely: surgical oncology, colorectal surgery, and paediatric general surgery. The Royal College review also identified five areas of strength: 1) the outstanding quality of our learners, 2) the responsive and enthusiastic Program Director and Associate Program Director, 3) the enthusiastic dedicated faculty, 4) our strong Surgeon-Scientist Program, and 5) our excellent core program incorporating the canMEDS competencies.

Resident Training

As in previous years, resident issues have again been a continuing challenge and a central part of our discussions at the General Surgery Council meetings. Having no resident attrition within the general surgery program for a third year in a row represents a great success and reflects well on our residents and on our program.

The CaRMS match took place in February/March of 2007 and successfully attracted twelve of our highest ranked seventeen students from the CaRMS matching list. In addition, we participated in the CaRMS IMG Match, the IMG Through Clinical Clerkship, the IMG PGY2 Intake and the Practice-Ready IMG programs

Accepted into the CaRMS Regular Match starting July 1, 2007 were: Yaasin Abdulrehman of University of Manitoba; Eisa Al-Sukhni of University of Western Ontario; Kengo Asai of University of Toronto; Kalkidan Belay of University of Toronto; Danielle Bischof of University of Toronto; Ian Choy of McMaster University; Andrea Covelli of University of Western Ontario; Preeti Dhar of Queen’s University; Aliyah Kanji of University of Toronto; Amanda Roberts of McMaster University; Bharat Sharma of Queen’s University; Si Wai (Francis) Zih of McGill University. Into the CaRMS IMG Match: Joslin Cheverie of Saba University School of Medicine, US Office Gardner, MA, Netherlands Antilles; Justyna Wolinska International Medical School, Jagiellonian University Medical College, Krakow, Poland. Into IMG Through Clinical Clerkship Program: Syed Ali of Pakistan Sind Medical College (2003). Into IMG PGY II: Kaes Ali of Al-Nahrain College of Medicine, Baghdad, Iraq; Gustavo Azoubel of Universidade de Pernambuco, Recife, Brazil.

Practice Ready are Takeshi Takahashi of Mexico City and Fernando Campello.

All but one of our general surgical residents completed the General Surgical Training Program for 2006-2007. The successful candidates were: Tracey Asano, Shima Kassirian, Sal Privitera, Ted Rapanos, Najib Safieddine, Nahy Sawires, Peter Stotland.

Congratulations go out to our graduating class.

New Faculty

Recruitment has continued actively in our division. Our newly recruited members in 2006-07 were: Georges Azzie, Hospital for Sick Children; Nancy Baxter, St. Michael’s Hospital; Natalie Coburn, Sunnybrook Health Sciences Centre; Teodor Grantcharov, Michael’s Hospital; Erin Kennedy, Princess Margaret Hospital, University Health Network; Avery Nathens, St. Michael’s Hospital; Allan Okrainec, Toronto Western Hospital, University Health Network.

Promotions 2006-07

Assistant to Associate Professor: Claire Holloway, Robert Mustard, Sandro Rizoli, Lloyd Smith. Assistant Professor: Stan Feinberg

Faculty and Resident Grants and Awards/Accomplishments/Honours

Faculty Awards/Accomplishments/Honours

Nancy Baxter, awarded Government of Ontario Early Research Award given by the province to researchers who are within the first 5 years of an independent academic career; Paul E. Bernick, 2007 Recipient of Dr. John H. Fowler Excellence in Teaching Award; John Bohnen, William Horsey Post Graduate Teaching Award, St. Michael’s Hospital, and Gulf Cooperation Council (GCC) Residency Program Director of the Year; Steven Gallinger, Frank Mills Award for Excellence in Teaching, Division of General Surgery, University Health Network, June 2006; Teodor Grantcharov, May 2006 Congress of the Association of Surgeons of Great Britain and Ireland (ASGBI), Edinburgh, UK - 6 of the best oral scientific presentations; September 2006 - 10th World Congress of Endoscopic Surgery, Berlin, Germany; EAES Technology Award session for the six best oral presentations; October 2006 - Honorary Medal of the Bulgarian Surgical Society; Jacob C. Langer, James IV Association of Surgeons Traveling Fellowship; Operation Herbie Doctor of the Year; GS
resident - Mohammed Zamakhshary won the Josie Walther Research Competition in 2006; Mohammed Amakhshary placed second in Gallie Day poster competition – Clinical Epidemiology/Education poster competition from Wyeth Canada in May 2007 – poster on optimal timing of inguinal hernia repair in infants: a population-based study, with J.C. Langer and Teresa To; John C. Marshall, elected President of the Surgical Infection Society, April 2007; Ian McGilvray, presented with the 2006 Allan Bruce Robertson Junior Investigator Award from the Clinical Research Society of Toronto at the Institute of Medical Science Scientific Day, May 2006; Robin McLeod, elected Treasurer SSAT; elected Vice-President ASA; Avery Nathens, awarded a Tier II Canada Research Chair; GS student Barbara Haas with Avery Nathens won 1st prize in Gallie Day Clinical Epidemiology/Education poster competition from Wyeth Canada in 2007 - Survival Advantage in Trauma Centers: Expeditious intervention or experience?, Michael Reediijk, new academic position January 2007 - Staff Scientist: Campbell Family Institute for Breast Cancer Research. Ontario Cancer Institute; Society of University Surgeons Foundation Junior Faculty Grant Award - Mechanisms of Notch activation and pharmacologic inhibition of Notch signaling in human breast cancer ($30,000 USD - 2006-07); Richard Reznick, inaugural recipient of the President’s Teaching Award, May 2006; Sandro Rizoli, Gold Medal in Surgery, Royal College of Physicians and Surgeons of Canada. 2006; Oct 2006 – Present, Provincial Chair, Advanced Trauma Life Support, American College of Surgeons; Oct 2006 – Present, State Chair for the Ontario Provincial Committee on Trauma (COT), American College of Surgeons (ACS); Ori D. Rotstein, reappointed to the position of Director of the Institute of Medical Sciences for a second 5 year term – July 2006; re-elected as the American College of Surgeons Governor for Ontario, to represent the Fellows in Ontario; Katalin Szaszi, appointed to IMS as an associate member in the fall of 2006; David R. Urbach, appointed to the Editorial Board of ‘Surgical Innovation’; appointed to the Executive Committee of Surgical Outcomes Club.

Faculty Research Grants

Nancy Baxter, John Bohnen, Mark Cattral, Anna Gaspari, Steven Gallinger, Robert Gryfe, Claire Holloway, Andras Kapus, Peter Kim, Jarley Koo, Calvin Law, Wey Liang Leong, Gergely Lukacs, John Marshall, Ian McGilvray, Carol-Anne Moulton, Avery Nathens, Michael Reediijk, Glenn Regehr, Sandro Rizoli, Ori Rotstein, Carol Swallow, Katalin Szaszi, David Urbach and Francis Wright were all recipients of research grants.

Resident Awards/Grants/Accomplishments/Honours

The Paddy Lewis Award for Excellence in Teaching by a Junior Resident went to Jonathan Cardella. Peter Stotland received the Paddy Lewis Award for Excellence in Teaching by a Senior Resident and the Canadian Association of General Surgery (CAGS)/Tyco Healthcare Resident Award for Teaching Excellence in September 2006. Patrick Tawadros received the Best Basic Science Paper Award at the Canadian Association of General Surgeons Annual Conference in Calgary for his presentation “Oxidant-induced mechanisms of macrophage activation”; the American College of Surgeons Wyeth Resident Research Scholarship for 2006–2008 for the project “Mechanisms of macrophage activation following oxidative stress”; 1st place at the Surgical Infection Society in April 2006 for his poster “The role of ceramide generation and P13 kinase activation in oxidant-induced macrophage priming.” Patrick Tawadros received a Postgraduate Award: Joseph M. Family West Memorial Fund, University of Toronto; a Fellowship, McLaughlin Centre for Molecular Medicine; a Wyeth Resident Research Scholarship, American College of Surgeons.

Other awardees of grants or fellowships are: Anand Govindarajan, SSP (Supervised by Anna Gaspari and by Calvin Law) from the National Colorectal Cancer Campaign, NCIC and the Canadian Cancer Society; George Zogopoulos, SSP (Supervised by Steven Gallinger) from the Society of University Surgeons (SUS), NCIC, Tulin Cil (Supervised by Claire Holloway) from the Canadian Breast Cancer Foundation; Carl Brown (Supervised by Robin McLeod) from PSIF; Timothy Cheang, SSP (Supervised by Calvin Law), Steven R. Lopushinsky, SSP (Supervised by David Urbach) and Ivan Diamond, SSP (Supervised by Paul Wales) from CIHR.

This indeed, is a very impressive list of grant captures, awards, and recognition of our faculty.

Gallie Day Awards

Gallie Bateman Oral Presentations

Lynn A. Mikula garnered 1st Prize for “High and low-frequency microsatellite instability and prognosis in colorectal cancer” (supervisor: Dr. S. Gallinger); Patrick S. Tawadros for “Oxidant-induced Akt phosphorylation in murine macrophages involves ceramide generation through the acid sphingomyelinase pathway” (supervisor: Dr. O.D. Rotstein) and George Zogopoulos for “Germ-line DNA copy number variation frequencies in a large North American population” (supervisor: Dr. S. Gallinger) tied for the 2nd Prize.

McMurrich Award – Poster Competition

Wyeth Award – Poster Competition

Tieing also for 2nd prize were Ulrich Guller, Nancy N. Baxter, Calvin H.L. Law, Alex Kiss, Jolie Ringash, Carol J. Swallow, Natalie G. Coburn for Adjuvant therapy for resected gastric cancer – rapid, yet incomplete adoption following the results of the intergroup 0116 trial; and Mohammed Zamakhshary, J. Guan, Teresa To, Jacob Langer for Optimal timing of inguinal hernia repair in infants: A population-based study.

Bernard Langer Surgeon-Scientist Award went to Nancy Baxter; the Charles H. Tator Surgeon Scientist Mentoring Award to John C. Marshall.

Events

The 46th Update Course for General Surgeons and Residents held from March 21st-23rd, 2007 had over 450 registrants, including speakers and exhibitors. Close to 550 people took part in the course. Approximately 80% of our faculty presented at this major CME event. The Guest Lecturer was Adrian Park from the University of Maryland in Baltimore; Homer Tien gave a special lecture; and Tom Todd chaired a symposium from the Canadian Medical Protective Association.

The Update in General Surgery Oncology in the fall of 2006 at the Granite Club drew excellent registration and the course was highly evaluated. For both of these courses, I particularly thank Carol Swallow, Andrea McCart and Andy Smith and those who participated in supervising the poster sessions.

This past year Jaime Escallon got involved once again in organizing the review course for residents from around Canada. Held in the early Spring of 2007 in conjunction with McMaster University, General Surgery residents from all over Canada attended.

Our major academic event for General Surgeons was the Annual Assembly of General Surgeons and Residents on June 7, 2007 at the Granite Club, with Dr. Larry Gentilello as the E.B. Tovee Lecturer.

Some new initiatives out of the Bernard and Ryna Langer Chair Fund for 2006-07, that I mentioned during the Annual Assembly of 2006, came to fruition in the form of three-thousand dollar teaching awards to recognize outstanding resident teachers over a two-year period. These awards went to Cagla Eskicioglu, Neil Orzech and Sundeep Rai. The Surgeon-Scientist tuition and residents’ presentations also obtained fundings.

At the Annual Assembly, Lynn Mikula and Alexandra Mihailovic shared the Best Podium Presentation award. Jensen Tan and Patrick Tawadros were joint recipients of the Best Poster Presentation.

The retreat held on September 29, 2006 at the Vaughan Estates was another important event that set the tone for the entire academic year. It paved the way for very animated discussions regarding our curriculum, the application process for new residents, the potential for increasing efficiency and using an evidence-based approach to standardize certain aspects of our general surgical practice and administration. Below are details of three initiatives undertaken.

Initiatives

First was a modification in the resident selection process which was discussed at length by the Post-Graduate Education Committee of the General Surgery Division. Ivan Diamond presented an outline of the changes at our Annual Assembly.

The changes made to the application process included: a standardized written application created with a structured personal statement in an attempt to obtain more useful pertinent information; limiting the number of documents/reference letters that could be submitted in order to enhance the efficiency further for file reviewers; changing the scoring system so that candidates were rated on a number of domains, each of which was weighted to form a final score; restructuring the interview process by having a structured blinded interview with new questions and with a variety of formats, and unstructured and unblended interview. Both the written application and the interview process received very good feedback, with many positive comments on the process and the friendliness of the program.

The Surgical Skills Laboratory underwent a major renovation, doubling its space during this past academic year. Helen MacRae formed and chaired a committee, composed of Najma Ahmed, Alice Wei, Teodor Grantcharov, Alan Okrainec, Lorne Rotstein, Jaime Escallon, and Georges Azzie, which will undertake new initiatives such as continuing basic skills course over the summer, continuing with the departmental core curriculum, and trying to add a proficiency based component.

The PGY2s will have anatomy sessions in August, a Fundamentals of Laparoscopic Surgery course potentially leading to certification and will use the colonoscopy simulator prior to the GI rotation in order to demonstrate proficiency. The PGY3-4 level will have a two-year cycle of teaching which will be primarily cadaver/animal based, a Lap/Colon/Cadaver course, a Laparoscopic Ventral Hernia course, a Laparoscopic Foregut course, a Head and Neck Dissection course and an Atom course.
The formation of the Best Practice in General Surgery Committee is another new and important initiative. This committee, chaired by Robin McLeod, aims to develop standardized evidence-based practices in the adult academic teaching hospitals. The committee members are: Darlene Fenech, Anna Gagliardi, Avery Nathens, Marg McKenzie (who is the Coordinator), and Stephanie Ferguson (Administrative Assistant). The goals of this committee are to standardize practices for residents and for faculty, where possible, by using a collaborative, inclusive, best-evidence, multiple iterative strategies for implementation, evaluative component and research component for each of the initiatives involved. An attempt will be made initially to look in this way at the prevention of surgical site infection, thromboembolic disease, wound closure techniques and bowel preparation.

We will also attempt to standardize the Resident Handbook and the operating room reports. A workshop will be held in November to finalize guidelines and discuss implementation of this very important initiative.

The General Surgical Division at the University of Toronto remains outstanding in breadth and depth. I wish to thank all of the members for their cooperation and collaboration during this past academic year.
Resident Achievements

Royal College Examinations:
Fellows of the Royal College of Surgeons of Canada (FRCSC): Dr. Amro Al-Habib, Dr. Steven McCluskey, and Dr. Sheila Singh.

Resident Research Awards (International/National):
Several residents received externally funded fellowships and awards during the year:
- **Ratan Bhardwaj** received an AANS Synthes Award.
- **Frank Farhadi** received Research Fellowships Awards from the American College of Surgeons and the Neurosurgery Research and Education Foundation of the AANS.
- **Greg Hawryluk** received an AO North America Resident Trauma Research Grant. He will serve as Neurosurgery Resident representative to the Canadian Federation of Neurological Sciences.
- **Betty Kim** received an NSERC Research Fellowship Award.
- **Paul Kongkham** received research fellowship awards from the National Cancer Institute of Canada and the Neurosurgery Research and Education Foundation of the AANS. He also received a Terry Fox Foundation Clinical Research Fellowship Award.
- **Karim Mukhida** was the recipient of the KG McKenzie First Prize Award for best Basic Science Research Paper.
- **Scellig Stone** is the recipient of a Michael J. Fox Foundation research fellowship.
- **Cian O’Kelly** was the recipient of the KG McKenzie First Prize Award for best Clinical Research Paper.
- **Sarah Woodrow** received the 2007 AANS Young Neurosurgeons Committee Public Service Citation.

Resident Research Awards (University of Toronto):
- **Amro Al-Habib** was the runner up for the Horsey Prize at the Botterell Lectureship.
- **Gregory Hawryluk** received a 2-year Medical Scientist Training Fellowship from the McLaughlin Centre for Molecular Medicine. He was awarded a NeuroRenew/MBF Bioscience Graduate Student Scholarship.
- **Adrian Laxton** was awarded first place in the Alan Wu poster competition at IMS Day.
- **Charles Matouk** won the 2nd place Morley prize at the Keith Lectureship.
- **Karim Mukhida** won the 1st place Morley prize at the Keith Lectureship.
- **Cian O’Kelly** received the Claire Bombardier Award in Clinical Epidemiology for the Most Promising Student.
- **Demitre Serletis** was the recipient of the Alan Hudson Teaching Award.
- **Scellig Stone** won the 1st place Horsey Prize at the Botterell Lectureship.
- **Sarah Woodrow** received the 2007 Warren Ho Memorial Scholarship.

Faculty Achievements

Honours and Awards
- **Karen Davis** was appointed as Head of the new research division of Brain, Imaging and Behaviour - Systems Neuroscience, Toronto Western Research Institute. She has also had her CIHR grant renewed.
- **Peter Dirks** is the recipient of an NCIC Grant Award.
- **Michael Fehlings** has accepted the invitation to serve on the 2007 Scientific Advisory Committee for the 2007 Annual Meeting of the Tissue Engineering and Regenerative Medicine International Society (TERMIS); he was awarded a 2-year grant from the Physicians’ Services Incorporated Foundation; he has been awarded Fellowship status in the American College of Surgeons (FACS); he has been appointed a Scientist in the McEwen Center for Regenerative Medicine; he was awarded a grant by the Craig H. Neilsen Foundation; he received a Canada Foundation for Innovation (CFI) grant; he received a CFI grant totaling $7.2 M; he is the recipient of a $30 million grant from the National Spinal Cord Injury Network; he received a grant from the Ontario Neurotrauma Foundation; he is on the Expert Panel that is developing for Spine Surgery in the Province of Ontario; he has been invited to sit on the Canadian Institutes of Health Research (CIHR) Team Grants A Scientific Review Panel; he is the Lister Prize winner in the Department of Surgery; he has been named Chairman of the AO Spine International Clinical Research Committee; he was awarded a 5-year grant from the Canadian Institutes of Health Research.
Fred Gentili has been made an honorary member of the Italian Neurosurgical Society.

Ab Guha received funding for two years from the Cancer Research Society; he received an NCIC Grant Award; he is the recipient of the Desi News - Grants Community Achievers Award; he received a two year grant from the Cancer Research Society; he received a one year grant from the Childhood Tumor Foundation; he has been elected President of The Society for Neuro-Oncology; he received a US Army DOD/NCI Concept Award; he was the recipient of an operating grant from the CIHR; he received a grant from the National Brain Tumor Foundation; he received a grant from Schering-Plough Virtual National Bank.

Robin Humphreys has been named Chair of the Grants Advisory Committee of the SickKids Foundation.

David Houlden has been appointed to the Editorial Board of the Journal of Clinical Monitoring and Computing.

Soheila Karimi received a Young Investigator Research Grant Award from the AO Spine North America (AOSNA); she is the recipient of a Dean’s Fund Grant from the University of Toronto.

Abhaya Kulkarni was awarded the Roscoe Reid Graham Scholarship from the Department of Surgery.

Andres Lozano has been appointed Chair, Archives Committee, Movement Disorder Society - 2007-2008; he has been appointed as the Fellowship Director for the Division of Neurosurgery in the Department of Surgery; he was named the 2006 Inventor of the year, University Health Network; he has been designated a “highly cited” scientific author by Thompson’s Scientific.

Loch Macdonald was appointed Adjunct Scientist in the Research Institute at The Hospital for Sick Children.

Eric Massicotte was the recipient of the Alan Hudson Teaching Award.

Nicolas Phan was awarded a McLaughlin Centre for Molecular Medicine Medical Scientist Training Fellowship for two years.

Julian Spears received a three year Heart and Stroke Foundation Phase I Clinician Scientist Award.

Charles Tator received a CFI grant totaling $7.2 M; he has served as Chair of the Canadian Brain and Nerve Health Coalition (CBANHC).

Michael Taylor received a four year grant from the CIHR; he was appointed to the Awards Committee of the Society for Neuro-Oncology; he received the CRANN Award from the University of Toronto; he received an NCIC Grant Award for his project; he received a Clinician-Scientist Phase II Award from CIHR; he is the recipient of a research grant from the American Brain Tumor Association; he was appointed to the Peer Review Panel J (Pathology and Tumor Markers) at the National Cancer Institute of Canada.

Bill Tucker has been elected to the position of President, Canadian Medical Protective Association.

U of T Neurosurgery Lectureships
Dr. Ziya Gokaslan, Department of Neurosurgery, John Hopkins University Medical Center, Botterell Lectureship
Dr. Andrew Kaye, Department of Neurosurgery, University of Melbourne, Keith Lectureship
Dr. Rick Abbott, Department of Neurosurgery, Montefiore Medical Center, Hendrick Lectureship
Dr. Sean Grady, Department of Neurosurgery, University of Pennsylvania, Marshall Lectureship
Dr. Jonathan Finlay, Head of Pediatric Neuro-Oncology at the Children’s Hospital, Los Angeles
Dr. Mark Bernstein, Professor of Neurosurgery, University of Toronto, Guest Speaker, City Wide Rounds, Sick Kids Hospital City-Wide Rounds
Dr. Geoffrey Manley, Department of Neurosurgery, UCSF, Sunnybrook and Women’s College Health Sciences Centre
Dr. David Jimenez, Department of Neurosurgery, University of Texas Health Science Center, The Hospital of Sick Children
Dr. Anil Nanda, Department of Neurosurgery, University of Louisiana, Toronto Western Hospital
Dr. Geoffrey Manley, Department of Neurosurgery, UCSF, Health Science Centre

Courses Offered at the Surgical Skills Centre
Spine Course, June 11 – 13, 2007, Course Leader: Dr. Eric Massicotte.

Retirement
Dr. David Rowed

New Faculty Appointments
Dr. Loch Macdonald, Division Head, St. Michael’s Hospital

Publications by neurosurgery faculty and residents: 144

Visiting Professorships by U of T Faculty: 145
The 2006-2007 academic year marked a time of growth for the Division of Orthopaedics. We had a record number of new appointments and faculty promotions.

Eight new recruits were welcomed to the division. Rajiv Gandhi and Christian Veillette started at the Toronto Western (UHN.) Rajiv will focus his clinical practice on arthroplasty, and develop an academic program in clinical epidemiology. He is currently enrolled in clinical epidemiology training at Harvard. Christian is well known to many of us as he trained in Toronto, and has returned following an upper extremity fellowship at the Mayo Clinic. Christian is particularly interested in information technology and will develop this as his academic interest. Sunnybrook welcomed Veronica Wadey and Markku Nousiainen, who will both develop practices focused on arthroplasty. Veronica has a long standing research interest in education, and has already developed a comprehensive musculoskeletal educational curriculum. Markku also is developing an academic program in education, and has a particular interest in fellowship training. Together they will be able to form a strong education research program at Sunnybrook. Two recruits joined Mount Sinai Hospital. Oleg Safir will develop an arthroplasty practice, and an education based research program. He has already received grant funding for his research work, so is on to a strong start. Ben Deheshi has joined the musculoskeletal oncology group, and is training in a graduate program in fundamental oncologic biology. John Theodoropoulos is our first joint recruit between the new Women’s Hospital and Mount Sinai. He will develop an arthroscopy based practice, and is also training in tissue engineering research. The Hospital for Sick Children welcomed Reinhard Zeller, as the head of the orthopaedic spine program at Sick Kids. He relocated from one of the most prestigious spinal surgery practices in Europe, and has already brought a number of innovative spinal deformity techniques to Toronto. These eight new faculty members will undoubtedly enrich our clinical, educational, and research expertise.

One of our divisional goals is to integrate fundamental research into the orthopaedic division. To this end, we welcomed two new cross appointees to add to our research capabilities. Rita Kandel has a primary appointment in Laboratory Medicine and Pathobiology and runs a successful research program in tissue engineering of cartilage. She is also part of a large multidisciplinary group tackling cartilage regeneration. Larry White, whose primary appointment is in Diagnostic Imaging, has a long standing interest in novel imaging technologies, and is actively working to develop techniques to diagnose early cartilage disease. Both of these individuals will be working along with clinicians from our division on new multidisciplinary research directions. The participation of these individuals, along with several non-clinician scientists appointed in our division at our annual retreat is a first step towards achieving this goal.

In addition to the record number of recruits, we also had a record number of promotions. Hans Kreder and Jay Wunder were promoted to the rank of Professor. John Murnaghan and Cari Whyne were promoted to the rank of Associate Professor. Cari received a promotion with distinction. Danny Whelan, Amr ElMaraghy, and William Kraemer were promoted to the rank of Assistant Professor.

The division continues to excel in publications and presentations, and faculty members had over 250 publications or presentations this academic year. Our staff members received numerous awards and honours this year. There are too many to list here but a comprehensive record is included in this annual report. Research funding remains steady, but given the current realities of CIHR funding, our divisional members are continuing to seek alternative funding sources. Trainees supervised by our faculty received two awards at the department’s Gallie Day. Louisa Ho (working with Benjamin Alman) and Colleen Wu (working with Jay Wunder) each received a McMurrich Award for basic science research.

Our Kennedy Visiting Professor was William Rennie, from the University of Manitoba. He spent several days with the faculty and residents, and gave a fascinating glimpse into new advances in hand and upper extremity surgery and changes in the orthopaedic educational and practice environment. Graduating residents presented their research work to him during the main Kennedy Day activities. The R.I. Harris Postgraduate Award was presented to Hossein Mehdian for the best graduating resident as voted by the faculty. The best resident presentations at Kennedy Day, as judged by our Visiting Professor, were given to Mark Chiu. This year we presented the inaugural James Waddell award for the best PGY4 resident, and this was awarded to Venessa Stas. Peter Ferguson received the Divisional Award for Best Teacher as voted by the residents. In addition to the divisional awards, Anthony Marchie, PGY3, won the Sopman Humanitarian Award given by the Toronto Western Hospital.
This year marked the start of the Toronto Central LHIN’s single standardized referral, intake and assessment process for hip and knee replacements. This process has dramatically improved our capacity to provide the highest quality arthroplasty care in a timely manner. Many of our faculty members are using this as a model to improve access for patients with other types of orthopaedic problems, and it is likely that several similar initiatives will be developed over the coming years.

We had many visiting lecturers to Toronto this year, having instituted using the University-wide orthopaedic rounds as a forum for such visitors. The upcoming academic year we will have at least one visiting lecturer each month. In addition the American Orthopaedic Foot and Ankle Society summer meeting was held in Toronto, with our foot and ankle surgeons acting as local hosts.

Bill Kraemer (Toronto East General) is continuing his stellar job as our Program Director. All of our graduating residents passed their Royal College examination, and we were able to recruit our top ranked candidates for the residency program, having successfully matched 10 of our 11 highest ranked candidates to our program. We continue to have excellent fellowship programs, and there are more clinical fellows training in the division than residents. Albert Yee (Sunnybrook) has been appointed as the division’s Director for Fellowship Education. He has already implemented a number of new initiatives to streamline the various fellowship programs, and improve integration of the fellows into the University community. Bill Cole (Sick Kids, and Cari Whyne (Sunnybrook) are co-chairing our Research Committee and are developing a program for a new integrated clinical and research year for the residency.

The University of Toronto’s Division of Orthopaedic Surgery is continuing in its long history of excellence in clinical care, teaching, and research. In upcoming years, the division will be working towards increasing participation in research activities by its faculty and trainees, improved integration of clinical care across the city, and in the development of novel improved educational approaches to clinical training.
The Division of Plastic Surgery has seen a great deal of activity and academic success the past year. As one of the largest Divisions of Plastic and Reconstructive Surgery in North America, we continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

**Promotions**

Congratulations go to Dr. Joan Lipa for her promotion to Associate Professor and Dr. Laura Tate for her promotion to Assistant Professor.

**Awards**

Dr. Ronald Zuker was elected an honorary fellow of the Royal College of Surgeons of Edinburgh, Scotland. Dr. Ronald Levine received this year’s Bruce Tovee Award for excellence in postgraduate education. Dr. Linda Dvali received the Wightman-Berris Academy Individual Teaching Excellence Award. The recipients of this year’s Divisional awards included Dr. James Mahoney who received the W.K Lindsay Research Award and Dr. Joan Lipa who received the Arnis Freiberg Teaching Award.

At this year’s Visiting Professor the award for Best Clinical Paper went to Dr. Douglas McKay for his paper entitled “Are Chest Compressions Safe for Patients with Sternal Plates? Investigation Using a Human Cadaveric Model” and the Mentor Best Science Paper Award went to Dr. Daniel Martin for his paper entitled “Modifying Diabetic Wound Healing by Topical Application of Genetically Modified, VEGF-Releasing Fibroblasts.” Karen Cross was the recipient of the 2006-PSI Resident Research Award for her research entitled “Clinical Utilization of Near Infrared Spectroscopy Devices for Burn Depth Assessment.” Dr. Allan Eckhaus received this year’s D.R. Wilson Award for excellence in undergraduate teaching.

**Accomplishments**

Dr. Howard Clarke and Dr. Joan Lipa were appointed as Members of the Royal College of Physicians and Surgeons of Canada Examination Board in Plastic Surgery. Dr. Peter Neligan was appointed as Editor-in-Chief of the Journal of Reconstructive Microsurgery. Dr. Brent Graham was appointed as Deputy Editor of Methodology and Biostatistics for the American edition of the Journal of Bone and Joint Surgery (JBJS). Dr. Dimitri Anastakis was voted a new member of the Sunderland Society – a society dedicated to the advancement of peripheral nerve surgery.

**2007 Hoyle Campbell Visiting Professor**

This year’s Hoyle Campbell Visiting Professor was Dr. John Persing from Yale University. Dr. Persing had a very busy itinerary including a session at the Surgical Skills Centre where he demonstrated his technique of blepheroplasty and osteotomies for coronal synostosis on a skull-model. Dr. Persing also met with the Division’s Curriculum Committee to discuss future directions of plastic surgery residency training.

**Continuing Medical Education**

The 37th Annual University of Toronto Symposium on Aesthetic Plastic Surgery was held at the Sutton Place Hotel on May 4-5, 2007. The symposium was a great success with over 275 attendees. The 7th Annual Toronto Breast Surgery Symposium was held on May 3, 2007. Dr. Dennis Hurwitz was the Royal College of Physicians and Surgeons of Canada Lecturer. Dr. James Grotting from Alabama was the Michael Drerer Annual Lecturer. The Inaugural Craniofacial Symposium was held on November 2-3, 2006. The live surgery sessions were held at the Hospital for Sick Children, while the didactic sessions took place at the Westin Harbour Castle Hotel. The Symposium was extremely well-received.

**Royal College Review**

Our residency program received full accreditation from the Royal College of Physicians and Surgeons of Canada.

**Strategic Planning Session**

On April 25, 2007, the Division held a strategic planning session with excellent faculty participation. The strategic plan defines a unified vision for the future of plastic and reconstructive surgery at the University and has set major goals and priorities for the next three years.

**Training Program**

Three residents graduated from the Program this year. They are: Drs. Allan Eckhaus, Douglas McKay and Zuhair Al-Fardan.
Clinical Accomplishments

The Division of Thoracic Surgery continues to have the largest clinical activity of any thoracic program in Canada. We continue to serve as the primary tertiary referral centre for most of Ontario and a quaternary referral centre for Canada. The Toronto Lung Transplant Program continues to be an international leader in clinical activity and outcomes, having performed over 100 lung transplants in a year. The first artificial lung (Novalung) bridge to lung transplant in North America was performed in Toronto this year. The End Stage Lung Diseases Program, a multi-disciplinary endeavor with the Respiratory Division, continues to grow with integrated and innovative approaches to diseases such as emphysema, pulmonary fibrosis and pulmonary hypertension. The Foregut Program focuses on clinical and academic endeavors related to diseases of the esophagus and proximal stomach. The Thoracic Service has continued to expand activity and expertise in early diagnosis, staging and treatment of early thoracic malignancies, and has continued to advance minimally invasive surgery for the management of both benign and malignant thoracic conditions.

Teaching and Research

The University of Toronto continues to be the largest and most comprehensive training program in the country for thoracic surgery, providing residency training within the Royal College Program and fellowship training to numerous surgeons from all over the world, under the coordination of Dr. Gail Darling, Program Director. The FG Pearson Award for Best Resident/Fellow Teacher was awarded to Dr. Stefan Fischer. The RJ Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Gail Darling. The GE Darling Award for Excellence in Undergraduate Teaching was awarded to Dr. Andrew Pierre. The 3rd Annual Pearson Day was a tremendous success – highlighting the breadth of clinical and basic science research activity in the division. The trainee award for Best Clinical Paper was awarded to Dr. Stefan Fischer on the topic “Results of surgery after induction chemoradiation therapy for superior sulcos tumour” (Supervisor – Darling). The award for Best Basic Science Paper was awarded to Dr. Marcelo Cypel (Supervisor – Keshavjee.)

The Latner Thoracic Surgery Research Laboratories continue to be very successful with grant capture and publications. This year saw landmark progress in the expansion and development of the Latner Thoracic Surgery Research Laboratories in the MaRS Toronto Medical Discovery Tower. The principal investigators: Keshavjee, Liu, Waddell, de Perrot and Hwang (Pathology) now have unparalleled state of the art research facilities. The investigators work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology. Drs. Keshavjee, Liu and Waddell each maintain highly ranked CIHR operating grants, for their respective research projects. Drs. Marc de Perrot and David Hwang (Pathology) have continued to add significant strength and activity in the group with grant capture and research productivity. Our laboratory program continues to provide an exciting and productive research training environment for graduate students and residents in the Surgeon-Scientist Program (MSc, PhD) and for numerous postgraduate fellows from all over the world.

Our Clinical Research Program also continues to be very productive. Members of our group are heavily involved in clinical trials in lung cancer, benign and malignant esophageal disease, and lung transplantation; with our division members being principal or co-principal investigators on a number of national and international multicentre trials.

Recruitment, Promotion and Honours

We have rebuilt the Division with strong recruits and increased cross division academic and service initiatives between the three University hospital divisions, namely: Toronto General, St. Joseph’s and Toronto East General Hospitals.

Additional Information

The Visiting Professors to the Division of Thoracic Surgery for 2006-07 academic year were as follows:

Dr. Kazuchiro Yasufuku - March 29, 2007
Dr. Robert McKenna - May 18, 2007
Dr. Hiroyasu Yokomise - June 11, 2007
Dr. Griff Pearson - June 8, 2007
Academic Promotion

Drs. Neil Fleschner and Joao Pippi-Salle were promoted to Professor.

Royal College Review

The external review took place on April 18, 2007. The division obtained full approval with no concerns identified.

Sick Kids

The Campbell-Walsh chapter on Reflux and Megaureter written by Drs. Tony Khoury and Darius Bagli was published.

Dr. Darius Bagli received funding for his project entitled “Epigenetic changes in uroepitelium following e.coli infection: New keys to understanding urinary tract infection susceptibility from the Hospital for Sick Children - Research Institute”. He was also the invited keynote speaker at the Pan-Arab Continence Society Annual Meeting, Manama, Bahrain in November.

Dr. Walid Farhat continued his work in tissue engineering and with K. Derwin were funded by the Cleveland Clinic Foundation (Biomedical Research and Technology Transfer Program-part of Ohio’s Third Frontier Initiative) for their project entitled Biologically Enhanced Fascia Lata Graft for Soft Tissue Repair. Dr. Farhat was also a guest speaker at conferences in Banff; Beirut, Lebanon; Cairo, Egypt; and Nashville, Tennessee.

Dr. Tony Khoury continued as site chief at Sick Kids. He also continued his peer reviewed research and was invited to lecture in Cape Town, South Africa, Brugge Belgium, and at Columbia University in New York City.

Dr. Joao Pippi-Salle was an invited speaker, surgeon, and visiting professor in many locations around the world. These included Madrid, Spain, Cape Town, South Africa, New Delhi, India, the University of Arkansas, Little Rock, Arkansas, Rio de Janeiro, Brazil, Parma, Italy, Bologna, Italy, Marrakesh, Morocco, Casablanca, Morocco, and the University of British Columbia, Vancouver. He also continued as Director of Continuing Professional Development for the Department of Surgery. He chaired the 2nd Annual Urology Symposium which was on hypospadias this year.

Dr. Armando Lorenzo continued his work in clinical epidemiology and minimally invasive pediatric surgery.

MSH

Dr. Keith Jarvi, site chief at MSH, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC). Dr. Jarvi again organized the Annual Robson Research Day Resident and Fellow scientific presentation contest. He was an invited speaker in Ottawa, Kingston, and at the University of Rochester, Rochester, New York. He received funding for his project entitled: Use of seminal fluid protein patterns as biomarkers for diseases in the male reproductive tract: Prediction of spermatogenesis in men with azoospermia, from Physicians Services Incorporated. His co-investigators are K. Lo, E. Diamandis, and B. Mullen. He was also part of a CIHR grant on the genetics of male infertility.

Dr. Kirk Lo continued his basic infertility research in stem cells. He presented at the plenary session at the AUA annual meeting in Anaheim CA, and chaired an educational forum at the CUA annual meeting in Quebec City.

Dr. Alexandre Zlotta started as a uro-oncologist in the Divisions at MSH and PMH. He continued his position as Associate Editor of European Urology, one of the premier international journals in urology. On January 18th he was awarded a PhD with the official title of "Docteur en Sciences Medicales" by the Free University of Brussels, Belgium. His theses were "BCG immunotherapy for superficial bladder cancer: Further insights into its mechanism of action", and "Place du PSA et des parametres volumetriques dans la detection du cancer de prostate." He received a funding award from the Canadian Prostate Cancer Research Foundation for his project entitled: "Prevalence and age distribution of prostate carcinoma and its precursor lesions in African, Asian and Caucasian men in autopsy specimens: A prospective comparative international study." Co-investigators are Neil Fleschner, Keith Jarvi, Theo Van der Kwast, and Tony Finelli. International collaboration is with Italy, Spain, Russia, Japan, and Congo. He also received a non peer-reviewed research grant from Sanofi-Aventis for prostate cancer research. He was visiting professor at the University of Tokyo, Tokyo, Japan, and invited speaker at the South African Congress of Urology, European Residents Program, Prague, Czech Republic, and at meetings in Paris, France, Berlin, Germany, and Nijmegen, Netherlands. He was the member for urology at the Prevention Initiative of the NCIC meeting in Vancouver, BC.
Dr. Lesley Carr continued her work as an investigator in an NIH grant to evaluate the efficacy of amitriptyline for the treatment of painful bladder syndrome, and in an industry grant for the use of muscle stem cells in stress urinary incontinence. Dr. Carr was in charge of journal seminars for urology residents.

Dr. Sender Herschorn was named as the first Chairholder of the Martin Barkin Chair in Urological Research. This is a university chair that will be held by the division chair. He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction. He was an invited speaker and lecturer at the University of Western Ontario; London, Ontario; Dalhousie University, Halifax, Nova Scotia; Christchurch, New Zealand; Berlin, Germany; Anaheim, California; and Sudbury, Ontario. The chapter he authored on Vaginal Reconstructive Surgery in the new Campbell-Walsh textbook of Urology was published. He also won W.T. Aikins Faculty Teaching Award for Excellence in Undergraduate Teaching: for individual teaching performance (small group). He also directed the 14th Annual U of T Urology Update.

Dr. Laurence Klotz, site chief at Sunnybrook, continued his research in uro-oncology and his many leadership appointments including Editor-in-Chief of the new Canadian Urological Association Journal. He continued as Chair of the Canadian Urology Research Consortium the World Uro Oncology Federation, (WUOF), an organization of 12 national and regional uro oncology societies around the world. He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer treatment and prevention. He was guest speaker and visiting professor in Anaheim, California; Chicago, IL; Santo Domingo, Dominican Republic; University of South Florida, Sarasota, Florida; Syracuse University, Syracuse, New York; Baylor University, Dallas, Texas. He was invited guest speaker by the Urological Societies of Quebec, Japan, Mexico, Australia and New Zealand. He won the 2006 Richard Lafferty Excellence in Writing Award from the Ontario Society of Medical Technologists. He was also elected as a member of the American Association of Genitourinary Surgeons.

Dr. Ron Kodama completed 10 years as Program Director for the Division and was honoured by his current and former students at a dinner at the Urology Fair in February. He again organized the 4th Annual Resident Basic Science Course in February. He again organized the Surgical Skills Lab sessions on TURP and TURBT. He also directed the annual Urology Fair 2007. He also won the Division of Urology Postgraduate Clinical Teaching Award.

Dr. Robert Nam continued his research in the genetics of prostate cancer. He was an invited speaker at the SIU GU Oncology conference in Cape Town, South Africa, and at an educational forum at the CUA in Quebec City. He continued his work on his peer-reviewed projects from NCIC and received new research awards from CIHR for his project entitled: Individual risk assessment for prostate cancer using risk factors, tumour markers and new biomarkers, (with S. Narod) and from the NCIC for “Cross-Canada assessment of a new nomogram prediction tool for prostate cancer screening” with co-investigators from across Canada. He received the Division of Urology Faculty Postgraduate Surgical Teaching Award and the Peter’s Boyd Academy Clinical Teaching Supervision Award.

Dr. Sharon Sharir continued her work in studying outcomes in women’s and men’s experiences with radical cystectomy for bladder cancer. Dr. Sharir ended her stay at Sunnybrook and went into practice at Humber Hospital.

Dr. Vasundara Venkateswaran continued her basic research in the peer-reviewed prostate cancer project on a transgenic mouse prostate cancer prevention model. She also received new CIHR and PCRFC awards as PI for prostate cancer research. She is also a co-investigator on two grants: one from the NCIC (with Dr. Michael Pollak, McGill) and the other from CPCRI (Dr. Bharati Bapat, MSH). She also supervises a PhD student and clinical fellow in her lab.

UHN - TGH and PMH

Dr. Neil Fleshner, site chief at the UHN, was appointed Professor. He continued his clinical and basic research in prostate cancer with many major peer-reviewed grants from CIHR, NCIC and CPRF. New grants were from the Ontario Institute for Cancer Research for “Identification and characterization of genetic alterations at the stromal-epithelial interface in prostate cancer,” (with T. Brown, S. Done, L. Jurisica, G. Lockwood, J. Sweet), and from the Canadian Prostate Cancer Research Foundation for “Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early state prostate cancer,” (with M. Haider and V. Venkateswaran) and for “Antioxidants and MRI in prostate cancer (with M. Haider). He was also co-investigator on a new grant from CIHR. He was invited speaker at meetings in Hawaii, Boca Raton, FL, Orlando, FL, Cape Town, South Africa, and Quebec City.
Dr. Michael Jewett continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. He received the CUA/CUOG Bayer Kidney Cancer Fellowship award for Analysis of VHL gene mutation in sporadic renal cell carcinoma, (with B. Gallie, M. Ohh, and A. Evans) was co-PI with G. Fernie on an Ontario Research Commercialization Program (ORCP) ‘BioDiscover’ Stage I Business and Development Project entitled Advanced articulating patient support system for image guided therapeutics (with C. Menard, A. Finelli, and W. Kucharchyk). He was an invited speaker and/or visiting professor in Aspen, Colorado; the Scott Department of Urology, Baylor College of Medicine, Houston, Texas; Victoria, British Columbia; Kelowna, British Columbia; London, Ontario; Amsterdam, Netherlands; the Urological Society of South Africa, Cape Town, South Africa; Interlaken, Switzerland; Riyadh, Saudi Arabia; British Association of Urological Surgeons Annual Meeting, Glasgow, Scotland; the CUA Annual Meeting, Quebec City, Quebec; McMaster University in Hamilton, Ontario. He also won the Division of Urology AW Bruce Undergraduate Teaching award.

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, NCIC, NIH, CPRF and industry. New awards included a project funded by CIHR entitled: NIR imaging and photodynamic therapy of prostate cancer using aptamer-directed lipoprotein nanoplatform. (PI: G. Zheng, with B. Wilson). He was invited speaker at the EAU Meeting in Berlin, Germany and the VTP Symposium in Paris, France. His presentation entitled “Whole mount histological registration and validation of hierarchical clustering for segmentation of tumor and normal prostate using multi-parametric” won the Bronze Award at the MRI ISMRM Meeting. The Surgeons’ Lounge at the Toronto General Hospital was named in honour of Dr. Trachtenberg.

Dr. Tony Finelli continued his work in advancing laparoscopic urologic procedures. New grants as PI were from Bayer Inc. for “Preoperative administration of sorafenib patients with metastatic renal cell carcinoma undergoing cytoreductive nephrectomy” (with J. Knox A. Evans, N. Fleshner, M. Jewett, T. Kim), from Pfizer for “A phase II, single arm, prospective study of neoadjuvant-sutent for patients with renal cell carcinoma” (with A. Knox, E. Evans, N. Fleshner, M. Haider, M. Jewett), and from Merck for “A phase III, randomized, double-blind, placebo controlled trial of PROSCAR in men with initial negative prostate biopsies” (with N. Fleshner, M. Jewett, A. Toi, J. Trachtenberg, A. Zlotta). He was a visiting speaker in Cleveland, OH; Cancun, Mexico; Baylor College of Medicine, Dallas, TX; and moderated a session at the EAU Meeting in Berlin, Germany.

UHN – TWH

Dr. Magdy Hassouna continued his basic and clinical work in neurourology and neuromodulation. He chaired a session on neuromodulation at the SUFU meeting in San Diego, CA.

Dr. Sidney Radomski, continued his role as the Urology Co-ordinator in the Surgical Skills Lab. He conducted hands on sessions for the residents in various minimally topics during the year. He continued his work in peer-review and industry funded grants in incontinence, overactive bladder and erectile dysfunction.

St. Michael’s Hospital

Dr. John Honey, site chief at St. Michael’s, 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 Anaheim, CA. He won a best poster award at the Canadian Urological Association Meeting in Quebec City and 3 best poster awards at the AUA Meeting in Anaheim, CA. He was invited faculty at the 1st International Urolithiasis Research Symposium in Indianapolis and Visiting Professor at the University of Ottawa.

Dr. Kenneth Pace continued his work in clinical epidemiology and stone disease and minimally invasive surgery. Dr. Pace directed the 2nd Annual Advanced Laparoscopic Urology Course in advance of Urology Update 2006. He continued his work as Chair of the IT committee for the CUA. He was appointed as the Fellowship Coordinator for the division of urology, and is the OSCE coordinator for the Phase 2 clinical clerkship surgery examination. He was an invited speaker in Indianapolis, and at an Educational Forum at the CUA meeting in Quebec City.

Dr. Robert Stewart continued as the principal urologist in the kidney transplantation program. He organized the weekly Urology Resident Postgraduate Seminars and continued as Director of Undergraduate Surgery Education at SMH.
Academic Events and Awards

The **Annual Charles J. Robson Research Day** was held on April 12th. The Visiting Professor was Dr. Eric Klein, Professor of Surgery, Cleveland Clinic Lerner College of Medicine, Head, Section of Urologic Oncology, Glickman Urological Institute Cleveland Clinic, Cleveland, OH. There were over 25 presentations. Resident winners were Rohan Shahani in the Clinical and Basic categories. Fellow winners were Sree Appu and Ahmed Haddad in similar categories. Other winners were Cengiz Yildiz in basic and Stephanie Tam in clinical.

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

Drs. Tim Davies and Michael Piannezza passed their Royal College Examinations.

Visiting Professors

Guests this year included Arie Beldegrun, UCLA; Peter Albertsen, University of Connecticut; Anthony Atala, Wake Forest University; John Denstedt, University of Western Ontario; Gary Lemack, Margaret Pearle, Claus Roehrborn, University of Texas Southwestern Medical Centre Dallas; John Mahoney, University of Ottawa; J. Curtis Nickel, Queen’s University; David Crawford, University of Colorado; Sandip Vasavada, Cleveland Clinic; Howard Snyder, University of Pennsylvania; Warren Snodgrass, Texas Tech University; Aivar Bracka, West Midlands, UK; and Paul Merguerian, Dartmouth Medical School.
Introduction

This academic year has been the first full year since the reorganization of vascular surgical services in the University of Toronto teaching hospitals. During this year there was a striking increase in the number of regional referrals through the CritiCall network to the two centers of excellence to provide vascular surgical care at St. Michael’s Hospital and University Health Network. The alternate funding agreement has been in place for eighteen months and this has stabilized the workforce. New city-wide monthly academic vascular rounds began in September 2007 and continued throughout the year. The regional centers have increased utilization of endovascular aneurysm repair for thoracic, abdominal and iliac cases. New branched iliac grafts have been used and extension to fenestrated and branched endovascular cases is underway. The combined Division of Cardiac and Vascular Surgery at Sunnybrook has been performing endovascular repairs and are seeking Ministry of Health funding for this activity. In addition, a new recruit is expected to start at Sunnybrook in October 2007. Recruitment is also underway at Toronto General Hospital and St. Michael’s Hospital. It is expected that a new recruit will be added at each site during 2007-08.

Administration

Dr. Johnston was appointed President of the Society for Vascular Surgery at the June 2007 SVS meeting. Also, Dr. Johnston continues as R. Fraser Elliott Chair in Vascular Surgery and completed his terms as the Editor-in-Chief of VascularWeb, and Editor of a new vascular newspaper called the Vascular Specialist. Dr. Lindsay completed his term as President of the Canadian Society for Vascular Surgery at the October 2006 meeting in Calgary, Alberta with an address on Ruptured Aortic Aneurysms. During this past year the CSVS undertook a position statement on screening for abdominal aortic aneurysms which was published in the Journal of Vascular Surgery. In addition, new driving guidelines on driving with abdominal aneurysms were developed by the CSVS executive. Dr. Lindsay continues as a member of the Vascular Surgery Examination Board at the Royal College of Physicians and Surgeons. Dr. Rubin continues as the Chairman and CEO for the Mount Sinai Hospital/University Health Network Academic Medical Organization and the University Health Network Mount Sinai Hospital Health Practitioners Funding Group.

He has also been an active member of the AHSC AFP Task Force charged with developing a framework for governance structures and guidelines for funding allocations for the Academic Health Science Center Alternative Funding Plan that was part of the OMA contract in 2004. He was also Chair of the working group of the Task Force that developed a definition of a full time equivalent for academic physicians, and was a member of the AHSC AFP template drafting committee. Dr. Ameli and Dr. Rubin continued their roles as Head of the Division of Vascular Surgery at St. Michael’s Hospital and University Health Network, respectively. Dr. Tanner continues as the Head of the Section of Vascular Surgery at the Ontario Medical Association and as a member of the Physician Services Committee, which is the interface between the OMA and the MOHLTC for ongoing contractual issues. In addition, Dr. Tanner continues as the Co-Chair of the Hospital-On-Call Coverage program for the province of Ontario. Dr. Daryl Kucey is the President-elect of the Canadian Society for Vascular Surgery. Dr. Rubin continues as a member of the Research and Education Committee of the Society for Vascular Surgery, and has been appointed as a member of the Audit Committee. Dr. Lindsay remains appointed to the Editorial Boards of the Journal of Vascular Surgery and the Annals of Vascular Surgery.

Graduates

Dr. April Boyd successfully passed her Royal College Certificate of Special Competence in Vascular Surgery and began academic practice at the University of Manitoba in Winnipeg. Dr. Andrew Dueck completed his fellowship training and is pursuing additional training at the Arizona Heart Institute prior to returning to the University of Toronto.

Education

The Division’s Residency Training Committee, led by Dr. Lindsay, produced a significant document reviewing the Royal College training program in preparation for the Royal College review. The program was successfully reviewed by the Royal College of Physicians and Surgeons in April 2007. Plans are being made to incorporate formal certification of Vascular trainees in Vascular lab investigations. Training in interventional techniques continues with Dr. Ron Colapinto at the Toronto Vascular Institute.

Dr. Vern Campbell has been appointed as the resident and fellow training coordinator at St. Michael’s Hospital effective October 1, 2006. Dr Oreopoulos has been appointed coordinator of the vascular surgical resident seminar series.
Research

Dr. Rubin was awarded a new 4-year CHIR grant in June 2007 to support his basic research into mechanisms of ventricular remodeling after myocardial infarction. Dr. Lindsay was awarded a new PSI grant to continue his studies on complement activation in ruptured abdominal aortic aneurysm in both humans and in an animal model. Dr. Johnston continues to collaborate with Professor Richard Cobbold (Biomedical Engineering) in Doppler ultrasound and in hemodynamics studies continues as his major research endeavor. Dr. Lossing and David Courtman are continuing their Heart and Stroke funded research examining the AAA matrix and its function. Dr. Lossing continues his research into the familial connection of aortic aneurysm.

Awards

At the Joint Vascular meeting in June meeting in Baltimore, Dr. Andrew Dueck was awarded the Alex Chao MD, Young Investigator Award at the Society for Vascular Ultrasound (SVU) for his paper and presentation ‘Fishing for BASS: Surveying Primary Physicians in the Barriers to Aortic Screening Study’. Dr. Wooster was awarded the 2007 Physician Presenters Award from the SVU for his presentation, ‘Use of a Structured Interpretation Report Audit in Vascular Ultrasound Quality Initiatives.’

External Visits and Visitors

Dr. Rubin presented work on cardiac eicosanoid metabolism at the NIH sponsored Vascular Surgery Research Initiatives Conference in Bethesda in March 2007. Drs. Lindsay and Wooster, presented at the Winnipeg Vascular Surgery course in April 2007. Dr. Wooster presented on the applications of Duplex ultrasound at the VITO meeting in Toronto in April 2007 and as an invited guest at the University of Rochester Vascular Course in May 2007. Dr. Lindsay was the invited guest at the University of Ottawa’s Department of Surgery Collins Day. In addition to assisting with judging of the resident research presentations, two formal presentations were delivered. Dr. Lindsay was also an invited speaker at the 11th International Symposium on Critical Issues in Endovascular Stent-Grafting in Groningen, The Netherlands in May 2007.
In 2006-2007, the Surgical Alumni Association continued its mission of interacting with alumni of the Department of Surgery to encourage them to help us maintain our excellent programs in surgical research training. These programs include the renowned Surgeon Scientist Program which is now about 25 years old, and the newly created Scholarship in Surgery Program. Both programs require financial support from surgical alumni to allow the Department to continue its mission of providing additional training and education in research over and above the traditional training of surgical residents as specialists. Through our research training programs, the Department of Surgery at the University of Toronto is at the forefront of fulfilling our university’s role as Canada’s research university. I am pleased to report that in 2006-07, we were able to provide financial support to several trainees in both programs.

One of the ways that the Surgical Alumni Association performs its role is through targeted fundraising among current surgical faculty and all alumni, including past faculty and alumni continuing to practice or retired in other centres. I am pleased to report that the Surgical Alumni Association’s 2006-2007 campaign raised considerable support for our department’s research training programs. Virtually 100% of the funds collected were used to benefit the Surgeon Scientist and Scholarship in Surgery Programs.

As in previous years, we have also worked along with the fundraising initiatives of some of the surgical divisions that were conducting focused campaigns, especially for specialty chairs and other projects that are so vital for enhancing academic activities in surgery. Over the years, the Surgical Alumni Association has assisted with the establishment of several endowed academic chairs in many divisions.

During the year, Nancy Collett joined the Department as the development officer, and thank you to Nancy for her new ideas and efforts to enhance the activities of the Association.

We continue to encourage all faculty and alumni to donate annually to the Surgical Alumni Association for support of our department-wide programs such as the Surgeon Scientist and Scholarship in Surgery Programs. Because of your donations, these programs have continued to have sufficient resources to support surgical residents from all divisions who make the commitment to a formal period of training in research during resident training in the Gallie Course. Because of your generosity, the Surgical Scientist Fellowship endowment continues to grow each year and represents an important source of support for Surgeon Scientist Program trainees. Our goal is to be able to continue to offer these programs to every trainee in surgery who commits to the additional time and effort to enhance his/her academic training. Thank you to the Divisional Chairs who helped us to communicate with alumni in their specialties. The Chairs have always played a special role in the annual campaign.

For the 2006-2007 campaign, we continued to advocate for an annual contribution of $1,000 to the Surgical Alumni Association from every current clinical faculty member in the Department and from every alumnus practicing or retired anywhere in the world. We thank everyone who committed to this concept. The 2006-2007 campaign was especially important because of the opportunity for leveraging the donations through matching programs initiated by the university and the provincial government.

On behalf of the Surgical Alumni Association, we thank the alumni and faculty of the Department of Surgery for their support of this association in the past year. On a personal note, I wish continuing success for the Surgical Alumni Association under its new leadership (to be announced). Thank you for your cooperation. It has been a pleasure and privilege serving you as President for the past seven years.
Surgical oncology activity continues to thrive throughout the Department. University of Toronto surgical oncologists continue to play important leadership roles in developing and implementing provincial cancer standards in conjunction with Cancer Care Ontario. Sites such as breast, thoracic, hepatobiliary, gastric, colorectal and prostate cancer have recently been areas of focus. In addition, U of T surgeons work in leadership roles to globally steer provincial quality improvement (Robin McLeod), research (David Urbach), and key strategic fiscal issues (Jonathan Irish).

Surgical oncology training programs have excelled and continue to populate the burgeoning numbers of cancer programs in new cancer centres around Ontario and around the world. A highlight this year was the successful review of surgical oncology training programs during the faculty-wide accreditation process. The continued maturation of the surgical oncology programs and their leadership position within Canada was noted. Creative efforts to blend general surgical oncology training with, for example, hepatobiliary fellowship training and minimally invasive surgery training are presently underway. In addition to training surgeons from around the world, University of Toronto surgical oncology trainees have been increasingly availed of training opportunities in foreign countries as a part of their specialty training in Toronto.

Academic productivity for surgical oncologists remains high with substantial representation at such meetings as the Society of Surgical Oncology and the American Urological Association. University of Toronto research constitutes a substantial proportion of the work presented at the Canadian Society of Surgical Oncology. Surgical oncology involvement in international collaborative trials organizations (NCIC, ACOSOG, NSABP) has been reinvigorated. Further to this, Nancy Baxter sits on the NCIC Gastrointestinal Disease site executive committee and has been appointed Rectal Group Co-Chair. Laurie Klotz has successfully initiated a large international randomized trial comparing active surveillance to radical intervention (the START trial), involving cooperative groups in Canada, the US, the UK, and Australia.

Importantly, the evolution of surgical oncology at the U of T has been paralleled by unprecedented collaboration throughout the department in postgraduate education, research and clinical endeavour. This is especially evident as the LHIN era unfolds in Toronto. For example, Sherif Hanna and Jonathan Irish have worked diligently to steer the course for quality improvement, surgical oncology specialty funding and infrastructure for surgical oncology in their roles leading the Toronto Central LHIN Cancer Program.
Continuing Professional Development is an area of great interest in the department. In assuming the role of Director, Continuing Medical Education from my distinguished predecessor Sender Herschorn who successfully completed a five-year term, our plan is to continue stimulating activities sponsored by our department. Having contacted and interviewed most University Division Chairs, they have helped us to clarify the divisions’ role in continuing education by learning that each division throughout the year holds educational seminars/rounds and hosts visiting professors who give lectures on a variety of topics. Also, nearly all divisions hold their own annual event. For example: General Surgery hosted their 27th Annual Assembly of General Surgeons and Residents; Orthopaedic Surgery hosted Kennedy Day; Urology Surgery hosted their Annual Urology Update -- to name a few.

Most divisions also held courses this year run by UofT, Faculty of Medicine, Continuing Education & Faculty Development Department. Of note are: Update in General Surgery which held its 47th Annual Course for Practicing Surgeons; The Aesthetic Plastic Surgery Symposium which has been held for 37 years, the Toronto Thoracic Surgery Refresher Course for 33 years, the Upper Extremity Update for 23 years (designed for orthopaedic surgery, plastic surgery and general surgery surgeons or trainees), and the Toronto Thoracic Surgery Refresher Course for 33 years. All events were well attended.

In order to comply with guidelines for accreditation of the Royal College of Physicians and Surgeons of Canada, members of the department began to record their CPD activities. Details of the program can be obtained from the following website: www.mainport.org/default.asp#. For example: Fellows are required to earn 400 credits during 5 years of practice by participating in educational activities of their choice, submitting their CPD hours from the previous year by January 31st deadline. Each year a random sample of 3% of fellows will be audited in order to validate their self-reports of participation in educational activities.

Actions aiming to increase activities sponsored by the department are going to be implemented shortly. In addition, a Continuing Medical Education Committee has been created with the intention of further defining our educational mission.

The department continues to sponsor a large number of CPD courses and, due to the skill and motivations of its members, this should increase; complying with the increased demand of the surgical society. The continuing educational activities have achieved excellent evaluations, bringing a positive impact on an individual’s annual performance review and in academic promotion.
<table>
<thead>
<tr>
<th>Title</th>
<th>Course Director(s)</th>
<th>Number participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urology Update 2006</td>
<td>Sender Herschorn</td>
<td>243</td>
</tr>
<tr>
<td>23rd Annual Upper Extremity Update</td>
<td>Robin Richards</td>
<td>179</td>
</tr>
<tr>
<td>37th Annual Canadian Society Aesthetic Plastic Surgery</td>
<td>Thomas Bell</td>
<td>171</td>
</tr>
<tr>
<td>Update in Surgical Oncology 2006</td>
<td>Andrew Smith</td>
<td>163</td>
</tr>
<tr>
<td>7th Annual Toronto Breast Surgery Symposium</td>
<td>Mitchell Brown</td>
<td>140</td>
</tr>
<tr>
<td>Craniofacial Symposium</td>
<td>Oleh Antonyshyn / Christopher Forrest</td>
<td>97</td>
</tr>
<tr>
<td>Canadian Radiosurgery Society (CARS) Meeting</td>
<td>Michael Schwartz</td>
<td>46</td>
</tr>
<tr>
<td>Advanced Urological Reconstructive Laparoscopy</td>
<td>Kenneth Pace</td>
<td>9</td>
</tr>
<tr>
<td>Update in General Surgery 2007 – 47th Annual course for Practicing Surgeons</td>
<td>Zane Cohen</td>
<td>442</td>
</tr>
<tr>
<td>Kennedy Visiting Professor 2006</td>
<td>Benjamin Alman</td>
<td>110</td>
</tr>
<tr>
<td>Vascular Imaging 2007</td>
<td>Douglas Wooster</td>
<td>-</td>
</tr>
<tr>
<td>Surgical Leadership Day: Getting Things Done</td>
<td>Martin McKneally</td>
<td>23</td>
</tr>
<tr>
<td>International Surgery – Bethune Round Table</td>
<td>Andrew Howard</td>
<td>70</td>
</tr>
<tr>
<td>What Difference Does Communication Make! Department of Surgery Faculty Education Retreat</td>
<td>Ori Rotstein</td>
<td>32</td>
</tr>
<tr>
<td>27th Annual Assembly of General Surgeons and Residents</td>
<td>Carol Swallow</td>
<td>123</td>
</tr>
<tr>
<td>33rd Annual Toronto Thoracic Surgery Refresher Course 2007</td>
<td>Shaf Keshavjee / Marc de Perrot</td>
<td>173</td>
</tr>
<tr>
<td>Ralph T. Manktelow Education Symposium</td>
<td>Brent Graham</td>
<td>150</td>
</tr>
</tbody>
</table>
The Department of Surgery at SickKids has six divisions: Cardiovascular Surgery, General Surgery, Orthopaedic Surgery, Neurosurgery, Plastic Surgery and Urology. These divisions are engaged in teaching at all levels, basic and clinical research, and the care of children with complex conditions from Ontario, Canada and worldwide.

The Department of Surgery has had a highly successful year. First, SickKids is leading a national wait time pilot project. Prime Minister Stephen Harper came to SickKids in January 2007 to announce $2.6M funding to measure wait times for children’s surgery in six clinical areas at the 16 paediatric academic Health Sciences Centres across Canada.

Second, Premier Dalton McGuinty and Minister of Health and Long-Term Care George Smitherman came to SickKids in May 2007 to announce the addition of children’s surgery to the Provincial Wait Time strategy with $5.5M in 2006-07 to perform additional paediatric surgeries.

Third, SickKids successfully completed an AFP renegotiation including funding for a taskforce to develop appropriate acuity measure for complex paediatric care.

Fourth, SickKids has established a Learning Institute that will play a major role in improving the educational experience for all learners at SickKids and beyond.

New Staff

Dr. Osman Al-Radi joined the Division of Cardiovascular Surgery as an Associate staff in April 2007. Osman, a graduate of the University of Toronto Residency Program with a Masters degree in clinical epidemiology will have a research focus on the clinical epidemiology of neonatal heart conditions.

Dr. Georges Azzie joined the Division of General Surgery in August 2006. Georges, a graduate of the University of Toronto Training Program, was Program Director in Albuquerque, New Mexico and returns to Toronto as Associate Surgeon-in-Chief for Education with a focus on education and international surgery.

Dr. Priscilla Chiu joined the Division of General Surgery as a Surgeon-Scientist. Priscilla, a graduate of the University of Toronto Residency Program, will continue her longstanding research focus on T-cell.

Dr. Sharifa Himidan joined the Division of Paediatric General Surgery in 2006. Sharifa, who works both at North York General Hospital and SickKids, has a clinical interest in complex disorders of the newborn.

Dr. Armando Lorenzo, a native Panamanian, joined the Division of Urology in 2006. Armando’s research focus will be in clinical epidemiology.

Dr. Reinhard Zeller came from Paris, France to SickKids in October 2006. Reinhard who is an engineer with a primary focus on surgery of the spine, will co-lead the Spine Program Unit with Dr. James Drake.

Appointments and Promotions

Dr. Benjamin Alman was appointed the A.J. Latner Chair of Orthopaedic Surgery at the University of Toronto in July 2006.

Drs. Chris Caldarone, Abhaya Kulkarni, Unni Narayanan, and Joao Luis Pippi Salle successfully completed their “three year review.”

Dr. Christopher Forrest was promoted to Full Professor.

Dr. Andrew Howard was appointed Director of International Surgery.

Dr. Pippi Salle assumed his role as Director of CME, Department of Surgery, University of Toronto.

Drs. Glen Van Arsdell and Joao Luis Pippi Salle were promoted to full Professor.

Dr. Ron Zuker was made Honorary Fellow of the Royal College of Surgeons of Edinburgh.
**Division of Cardiac Surgery**

The Division was a major contributor to the Third Annual SickKids Symposium on Contemporary Questions in Congenital Heart Disease. This year’s topic was “The Left Heart.” A team from the Division operated and taught in Chengdu, China this past November and was invited as international lecturer at meeting sites that included China, Japan, the UK and the US.

Dr. Chris Caldarone was a significant participant in a $6 million USD multi-site Leduq Foundation grant that is looking at ischaemic preconditioning. Dr. John Coles received a Heart and Stroke grant to further his work in Integrin-linked kinase. Dr. Glen Van Arsdell received a Heart and Stroke grant looking at the effects of single ventricle Stage I palliative strategies on neurologic outcomes.

The group had multiple peer-reviewed presentations at national and international meetings as well as publications in specialty journals highlighted by Dr. Cole’s publication in Circulation.

**Division of Neurosurgery**

Dr. Peter Dirks was re-appointed as a Scientist in the Research Institute at SickKids and published two high impact papers in Nature and Nature Chemical Biology. Dr. James Drake received the Donald D. Matson Award of the American Association of Neurological Surgeons. Dr. James Rutka, as University Chair, Division of Neurosurgery, successfully completed the Royal College Review of the Neurosurgery Program and received the Knight of the Order of the Smile. Dr. Michael Taylor received the Elsie W. Crann Award for Young Investigators from the University of Toronto. The Division delivered 45 invited lectures worldwide.

**Division of Urology**

Dr. Darius Bagli won first prize for a paediatric urologic paper at the American Urologic Association. Dr. Tony Khoury has been appointed Associate Editor for the fifth edition of Clinical Paediatric Urology. This is the first time a non-American has been selected as an editor. Dr. Khoury was awarded, for the second time, the A.W. Bruce Faculty Undergraduate Teaching Award. The Division participated and organized several innovative CME events. The Division delivered 65 invited lectures worldwide.

**Division of General Surgery**

Dr. Ted Gerstle, as Program Director, successfully completed the Royal College Review of the Paediatric General Surgery Residency Program. Dr. Peter Kim received the Walter McKenzie Travel Award of the Royal College. Dr. Jack Langer won the James IV Traveling School Award and Operation Herbie Doctor of the Year Award. Members of the Division delivered 11 invited lectures worldwide.

**Division of Orthopaedic Surgery**

Dr. Alman, as University Division Chair, successfully completed the Royal College Review of Orthopaedic Residency Training Program. Dr. Alman received the Lister Award given to senior investigators for outstanding research activity in the Department of Surgery. Dr. Andrew Howard received the APA Injury Control Special Interest Group Young Investigator Award. Dr. Unni Narayanan received the Angela Kuo Award: Outstanding Young Investigator of the Pediatric Orthopaedic Society of North America. The Division delivered 42 invited lectures worldwide.

**Division of Plastic Surgery**

The first Advanced Craniomaxillofacial Surgery Symposium featuring live surgery co-chaired and organized by Dr. Chris Forrest was held in November. Drs. Ron Zuker and David Fisher participated in several Operation Smile missions around the world offering state of the art surgical reconstruction for cleft lip and palate. A $3M Irene Prior Endowment for Craniofacial Disorders was established by Drs. John Phillips and Chris Forrest. Dr. Howard Clarke was invited to the Karolinska Institute, Sweden as the opponent for a PhD defense. Members of the division delivered 24 invited lectures world-wide.

**Education**

The hospital continues to have an active education program, training 262 fellows and residents originating from 39 countries worldwide.

**Research**

Of 32 surgeons, 18 have funded research programs. The Department is engaged in a wide variety of clinical and basic research supervising many fellows and graduate students.
DIVISION OF CARDIAC SURGERY

Dr. C. Caldarone – Associate Professor
Dr. J.G. Coles – Professor
Dr. G.S. Van Arsdell – Associate Professor (Division Head)
Dr. W.G. Williams – Professor
Dr. C. Wittnich – Professor

Publications


Invited Visits to Other Hospitals/Universities


Caldarone C: American Academy of Pediatrics, Atlanta, GA, October 2006. Does center volume influence survival after repair of congenital heart disease?


Caldarone C: International Symposium on the Hybrid Approach to Congenital Heart Disease, Columbus, OH, June 2007.


Wittnich C: Keynote Speaker, Annual Leadership Conference, Ontario Veterinary College, Guelph, ON, September 2006.

Wittnich C: Canadian Veterinary Medical Association, Ottawa, ON, February 2007. Animals in disasters - Are we ready. Canadian Veterinary Reserve, its role and lessons learned from other disasters.

Wittnich C: University of Guelph, Guelph, ON, April 2007. How is animal welfare addressed within Canada’s emergency response plan.
Research and Investigations

A training program in cardiovascular research: Molecules to humans, heart failure to prevention (TACTICS). Liu P, 31 co-applicants including Wittnich C: Canadian Institutes of Health Research. ($855,000 2002 - 2007.)

A transatlantic network to define the mechanisms, mediators and clinical applications of remote ischemic preconditioning. Redington AR, Caldarone CA: Leducq Foundation. ($6,523,095 2006 - 2011.)


Assessment of heavy metal toxins in Canadian marine mammals. Wittnich C: Oceanic Environmental Research Study (OERS) Seed Grant. ($15,000 2005 - 2008.)

Impact of gender on myocardial pathology and ischemia/reperfusion (renewal). Wittnich C: Heart and Stroke Foundation of Ontario. ($249,000 2004 - 2008.)


Late functional status and health-related quality of life in a cohort of survivors with pulmonary atresia intact ventricular septum from the Congenital Heart Surgeons Society Study. McCrindle BW, Caldarone CA: The Children's Heart Foundation. ($86,308 2007 - 2009.)


Honours Received

Wittnich C: Chair, John Charles Polanyi Prizes Selection Committee, Ontario Council on Graduate Studies. September 2006.
DIVISION OF GENERAL SURGERY

Dr. G. Azzie – Assistant Professor
Dr. P.L. Chiu – Assistant Professor
Dr. S. Ein – Associate Professor
Dr. A.H. Fecteau – Assistant Professor
Dr. J.T. Gerstle – Assistant Professor
Dr. D. Grant – Professor
Dr. P.C.W. Kim – Associate Professor
Dr. J.C. Langer – Professor (Division Head)
Dr. G.L. Lukacs – Associate Professor
Dr. P. Wales – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Langer JC: City-Wide Paediatrics Rounds, Toronto, ON, January 2007. Groin pains: Everything you wanted to know about inguinal hernias.


Langer JC: Neonatology Teaching Rounds, Royal Women’s Hospital, Melbourne, Australia, February 2007. Controversies in the management of necrotizing enterocolitis.


Langer JC: Paediatric Surgery Teaching Rounds, Starship Children’s Hospital, Auckland, New Zealand, February 2007. Hirschsprung’s disease and abdominal wall defects, the failed fundoplication, effects of subspecialty training and volume on outcomes of “bread and butter” pediatric surgical procedures.

Langer JC: Teaching Rounds, Christchurch Hospital, Christchurch, New Zealand, February 2007. The use of population-based data to answer questions in paediatric surgery.


Research and Investigations
Senior Investigator’s Name Appears in Italics


Correction of defective delta F508-CFTR processing in cystic fibrosis. Lukacs G: National Institute of Health (USA). ($717,500 2006 - 2011.)


Domain folding and assembly of CFTR. Lukacs G: Canadian Cystic Fibrosis Foundation. ($108,000 2007 - 2010.)

Establishment of Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI). Kim P: Canadian Foundation for Innovation. ($25,000,000 2006 - 2010.)

Functional outcomes after pediatric liver transplantation. Ng VL, Fecteau AH: National Institute of Health. ($125,000 2005 - 2010.)


Pediatric Acute Liver Failure (PALF) registry with accompanying NAC Study (A Double-Blinded Randomized Control Trial of N-acetylcysteine for Pediatric Acute Liver Failure Not Due To Acetaminophen). Ng VL, Fecteau AH: National Institute of Health. ($54,000 2005 - 2010.)

Role of fg12 in transplantation and cardiac development. Grant D, Levy G: Heart and Stroke Foundation of Canada ($227,750 2005 – 2008.)

Structure defects of CF mutations with impaired trafficking. Lukacs G: Canadian Cystic Fibrosis Foundation. ($255,000 2004 - 2007.)

The effect of intestinal continuity on circulating levels of Glucagon-Like Peptide - 2 (GLP-2) in children. Wales PW, Drucker DJ: University of Toronto, Faculty of Medicine, Dean’s Fund. ($9,983 2004 - 2009.)

The Fetal Alert Network: Establishment of a population-based antenatal database for pregnancies affected by anomalies. Kim P: Ministry of Health and Long Term Care, Ontario. ($1,100,000 2006 - 2007.)

The functional role of ubiquitin in the quality of plasma membrane proteins in health and diseases. Lukacs G: Canadian Institutes of Health Research. ($650,000 2004 - 2009.)

Honours Received


DIVISION OF NEUROSURGERY

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

Publications


Invited Visits to Other Hospitals/Universities

Dirks PB: Quebec/New Jersey Stem Cell Workshop, Montreal, PQ, June 2007. Brain Tumor Stem Cells.


Dirks PB: Neuroscience Rounds, Children’s Hospital of Boston, Boston, MA, February 2007. Brain tumor stem cells: Defining a ground state with chemical genetics.


Dirks PB: Catholic University, Rome, Italy, June 2007. Brain tumor stem cells: Looking ahead to targeted therapy.


Dirks PB: American Association for Cancer Research, Los Angeles, CA, April 2007. New concepts in organ site research: Brain tumor stem cells.


Rutka J: Invited Speaker and a Clinical Discussion Participant in a Pediatric Panel, Drug Resistant Epilepsy from Basic Science to Pharmacological and Surgical Management, 22nd International Scientific Meeting, Beer-Sheva, Israel, March 2007. Speeches: (1) The role of MEG in epilepsy surgery, (2) Surgical management of rolandic epilepsy.

Rutka J: Visiting Professor and Brain Club Speaker, St. Jude Research Hospital, Memphis, TN, March 2007. Medulloblastoma: A quest for neutral therapeutic targets.


Rutka J: George Perrett Memorial Lecturer, University of Iowa Hospitals and Clinics, Iowa City, IO, August 2006. The Neurosurgical management of rolandic epilepsy in children.

Taylor MD: British Neuro-Oncology Society, Portsmouth, United Kingdom, June 2007. Charlies challenge lecture: Recent advances in the genetics of human and murine pediatric brain tumors.


Taylor MD: Program in Neurosciences, University of Iowa, Iowa City, IA, March 2007. Multiple recurrent genetic events in medulloblastoma converge on histone lysine methylation.


Taylor MD: BRAINchild Annual Meeting, Mississauga, ON, March 2007. Recent advances in the biology of medulloblastoma.

### Research and Investigations

**Senior Investigator’s Name Appears in Italics**


Characterization of amplified oncogenes in pediatric ependymoma. *Taylor M: Canadian Institutes of Health Research.* ($467,000 2006 - 2010.)


High resolution genotyping of pediatric medulloblastoma. *Taylor MD: Neurosurgery Research and Education Foundation.* ($45,000 2006 - 2007.)


The effect of hospital admissions on children with hydrocephalus. *Kulkarni AV: RR Graham Scholarship, Department of Surgery, University of Toronto.* ($75,000 2007 - 2010.)

The role of cytoskeletal GTPases in astrocytoma migration. *Rutka JT: Canadian Institutes of Health Research.* ($500,000 2004 - 2009.)

### Honours Received


DIVISION OF ORTHOPAEDIC SURGERY

Dr. B.A. Alman – Professor (Division Head)
Dr. W.G. Cole – Professor
Dr. S. Hopyan – Assistant Professor
Dr. A. Howard – Associate Professor
Dr. U.G. Narayanan – Assistant Professor
Dr. R.B. Salter – Professor
Dr. J.H. Wedge – Professor
Dr. J.G. Wright – Professor
Dr. R. Zeller – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Alman BA: Eugene Rogala Visiting Professorship, Grand Rounds, Department of Surgery, Montreal Shriners Hospital, McGill University, Montreal, PQ, October 2006. (1) A classification for genetic disorders in orthopaedics, (2) Duchenne muscular dystrophy and scoliosis: A case for basic science in orthopaedics, (3) Intra-operative traction for scoliosis, (4) Simple bone cysts: Not so simple.

Alman BA: Department of Biochemistry, University of Hong Kong, Hong Kong, China, December 2006. Fibromatosis to future: Beta-catenin in mesenchymal development.


Alman BA: Grand Rounds, Department of Orthopaedic Surgery, University of California Los Angeles (UCLA)/Orthopaedic Hospital, Los Angeles, CA, May 2007. Scoliosis in duchenne muscular dystrophy: A case for basic science in orthopaedics.


Howard A: Toronto Star, Toronto, ON, January 2007. Freezing rain makes for tough sledding: It’s a slippery slope as cold and icy weather turns very steep tobogganing hills into super speedy hospital highways.

Howard A: Chair/Host debate on helmet legislation, McCutcheon Lectureship, Toronto, ON, November 2006.


Narayanan UG: St. Justine Pediatric Orthopaedic Review Course, Montreal, PQ, March 2007. (1) Everything you need to know about Monteggia, Galeazzi and other forearm fractures of children, (2) Lower limb problems with the spastic child: Where to start in the management of ambulatory cerebral palsy?

Narayanan UG: Royal College of Physicians & Surgeons of Canada Lectureship, Alberta Children’s Hospital, Calgary, AB, October 2006. Evidence based medicine: A new prescription for paediatric orthopaedics?


Narayanan UG: Classification, Assessment, Management & Outcomes of Children with Cerebral Palsy; In Cerebral Palsy Seminar, Pediatric Orthopaedic Society of India, Jaipur, Rajasthan, India, February 2007. Multiple presentations.

Narayanan UG: Diagnosis, Classification, Assessment, Management & Outcomes of Children with Cerebral Palsy: Today & Tomorrow, National Society for Equal Opportunities for the Handicapped (Gujarat), Ahmedabad, Gujerat, India, January 2007. Multiple presentations.

Narayanan UG: Diagnosis, Classification, Assessment, Management & Outcomes of Children with Cerebral Palsy, 2-Day International Symposium on Cerebral Palsy, VHS Trust Sundaram Foundation Hospital, Chennai, Tamil Nadu, India, February 2007. Multiple presentations.


**Zeller R**: Department of Scientific Education, Alemana Clinic, Faculty of Medicine, University of Desarrollo, Santiago, Chile, May 2007. (1) Deformities and other complex problems of the spine course: Clinical evaluation, detection and alarm signs, (2) Intra-surgical tricks in correction of severe scoliosis, (3) Neuromuscular scoliosis, (4) New implants, (5) Strategies in congenital scoliosis, (6) The future of deformities.


**Zeller R**: Annual Meeting, European Paediatric Orthopaedic Society, Sorrento, Italy, April 2007. How to manage complex spinal deformities without vertebral resection.

**Zeller R**: Paediatric Update Course, Department of Paediatrics, The Hospital for Sick Children, Toronto, ON, April 2007. Principles of brace treatment for scoliosis.

**Zeller R**: Salter Visiting Professor, Toronto, ON, November 2006. Revision surgery for previously fused spinal deformities in children and adolescents.

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


Beta-catenin in aggressive fibromatosis: Molecular pathology and implications for therapy. *Alman BA: National Cancer Institute of Canada (NCIC) - Operating Grant.* ($433,326 2005 - 2008.)


Connaught New Staff Matching Grant. Hopyan S: University of Toronto. ($30,000 2007 - 2008.)

Dean’s Fund New Staff Grant. Hopyan S: University of Toronto - Faculty of Medicine. ($10,000 2007 - 2012.)


Identifying the desmoid initiating cell. Alman BA: Desmoid Tumor Research Foundation. ($270,000 2006 - 2009.)


Investigating physician bias as a possible explanation for gender disparity in the utilization of knee arthroplasty surgery. Borkhoff C, Wright JG: Canadian Arthritis Network. ($9,000 2003 - 2006.)


Modulating hedgehog and beta-catenin signalling in osteoarthritis. Alman BA: Canadian Institutes of Health Research. ($380,000 2006 - 2009.)

Molecular mechanism of dupuytren’s contracture. Gan B, Alman BA, Howard J: Canadian Institutes of Health Research. ($376,000 2003 - 2006.)

Molecular pathology of cartilage neoplasia. Wunder JS, Alman BA (CoPIs): Canadian Institutes of Health Research. ($560,000 2003 - 2008.)


Molecular pathology of healing. Alman BA: Canadian Institutes of Health Research. ($423,975 2005 - 2008.)


School playground surfacing: A randomized prospective comparison of injury rates on sand versus wood chip surfaces (New Investigator Award). Howard AW: Canadian Institutes of Health Research. ($250,000 2004 - 2009.)
Start-Up Fund. *Hopyan S: The Hospital for Sick Children - Research Institute*. ($80,000 2005 - 2008.)

The chondrogenic potential of muscle grafts under influence of CPM. *Alman B, Salter RB: Zimmer Corporation* ($10,000 2005-2006.)

The 45-year results of combined open reduction and innominate (Salter) osteotomy for developmental dislocation of the hips. *Salter RB, Alman B: Zimmer Corporation* ($25,000 2005 – 2007.)


**Honours Received**

*Alman BA*: Lister Award - Given to a Senior Investigator for outstanding research activity in the Department of Surgery, University of Toronto. September 2006.


*Salter RB*: Robert B. Salter Floor at the Cellular and Biomolecular Research (CCBR) building. 2007.
DIVISION OF PLASTIC SURGERY

Dr. H.M. Clarke – Professor
Dr. D.M. Fisher – Assistant Professor
Dr. C.R. Forrest – Professor (Division Head)
Dr. C.Y. Pang – Professor
Dr. J.H. Phillips – Associate Professor
Dr. R.M. Zuker – Professor

Publications


Invited Visits to Other Hospitals/Universities


Clarke HM: 10th Triennial Congress of the International Federation of Societies for Surgery of the Hand, Sydney, Australia, March 2007. (1) Extending the indications for primary nerve reconstruction in obstetrical brachial plexus palsy, (2) Obstetric plexus palsy (IFSSH Scientific Committee Report.)


Clarke HM: 6th Annual International Paediatric Burns Videoconference 2006 (Via Telehealth), Brisbane, Queensland (Australia); Wuhan, Hubein (China); Toronto, ON, August 2006. Predictors of child distress during the treatment of young scald burn children (with Young AR, Hubley PL).


Fisher DM: Etiology & Management of Cleft Lip & Palate Workshop, Ottawa, ON, October 2006. Faculty.


Forrest CR: 9th Annual Advances in Pediatric Medicine, Mississauga, ON, September 2006. Asymmetric skull.

Forrest CR: Visiting Professor, McGill University, Montreal, PQ, June 2007. Sagittal synostosis: It’s not just cosmetic.


Forrest CR: Visiting Professor, Johns Hopkins University, Baltimore, MD, March 2007. (1) Sagittal synostosis: It is not just cosmetic, (2) Optic nerve trauma, (3) Cleft nose rhinoplasty, (4) Midface distraction.


Zuker RM: Visiting Professor, Birmingham Children’s Hospital, Birmingham, England, October 2006. Turtles and challenges: A survival guide for the young microsurgeon.

Research and Investigations

Senior Investigator's Name Appears in Italics

Angiogenic cytokine gene therapy for optimal augmentation of skin flap viability: Efficacy and mechanism. Pang CY: Canadian Institutes of Health Research. ($456,545 2007 - 2012.)


Skin flap ischemia: Pathology and pharmacologic intervention. Pang CY: Canadian Institutes of Health Research. ($40,000 2001 - 2006.)

Skin flap ischemia: Pathophysiology and pharmacological intervention. Pang CY: Canadian Institutes of Health Research. ($9,738 2006 - 2007.)

The creation of a normal smile. Zuker RM, Manktelow RT: Josie Walther Fund. ($15,000 2006 - 2009.)

Honours Received


DIVISION OF UROLOGY

Dr. D.J. Bagli – Associate Professor
Dr. W.A. Farhat – Associate Professor
Dr. A.E. Khoury – Professor (Division Head)
Dr. A. Lorenzo – Assistant Professor
Dr. J.L. Pippi Salle – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Farhat WA: Beirut Government Hospital: Rafic Hariri Teaching Medical Institute, Beirut, Lebanon, December 2006. Basic laparoscopic skills course.

Farhat WA: American University of Beirut Medical Center, Beirut, Lebanon, December 2006. Current practice of laparoscopy in pediatric urology.
Farhat WA: The 41st Annual Congress of the Egyptian Association of Urology, Cairo, Egypt, December 2006. Nuances of laparoscopy in pediatric urology.


Farhat WA: American University of Beirut Medical Centre, Beirut, Lebanon, December 2006. What a pediatrician should know about pediatric urology.

Khoury AE: Columbia University Medical Center, New York, NY, January 2007. (1) Bladder augmentation, bladder neck reconstruction or mitrofanoff, (2) Case presentations.

Khoury AE: European Society for Pediatric Urology, Brugge, Belgium, April 2007. Chair, Intersex Session.


Khoury AE: Pediatric Rounds at St. Joseph’s Health Centre (Qmed), Toronto, ON, September 2006. Reflux.

Khoury AE: Columbia University Medical Center, New York, NY, January 2007. Regenerative medicine in pediatric urology: Where are we heading?


Pippi Salle JL: Chair, Video Session of the Workshop, 20th Congress of Asian Association of Pediatric Surgeons and Live Operative Workshops, New Delhi, India, November 2006.


Pippi Salle JL: Visiting Professor, Department of Urologic Sciences, University of British Columbia, Vancouver, BC, June 2007. (1) Decisions and dilemmas in the management of intersex conditions, (2) Devastation of the Amazon Rain Forest: Who is responsible?


Pippi Salle JL: Guest Surgeon, 20th Congress of Asian Association of Pediatric Surgeons and Live Operative Workshops, New Delhi, India, November 2006. (1) Performed corporal dismembered clitoroplasty - an alternative technique for feminizing genitoplasty in girls with clitoral enlargement with live transmission to 450 participants, (2) Management of Complex Case of Hypospadias. (Session Moderator), (3) Technical points to improve outcome in hypospadias repair.


Research and Investigations

Senior Investigator's Name Appears in Italics

Biologically Enhanced Fascia Lata Graft for Soft Tissue Repair. Derwin K, Farhat W: Cleveland Clinic Foundation (Biomedical Research and Technology Transfer Program-part of Ohio's Third Frontier Initiative). ($225,000 2005 - 2008.)

Epigenetic changes in uroepiteliulm following e.coli infection: New keys to understanding urinary tract infection susceptibility. Bagli DJ: Hospital for Sick Children - Research Institute. ($50,000 2007 - 2008.)

Honours Received

Mount Sinai Hospital recently underwent an internal reorganization of clinical programs leading to the development of Centers of Excellence which include: Surgery and Oncology; Acute and Chronic Medicine; Women’s and Infants’ Health; and Laboratory Medicine and Infection Control. Each Center of Excellence has tripartite leadership consisting of a clinical chief, operations director and scientist. A major thrust of this realignment is to better integrate clinical care and clinical research in the hospital with more basic science and translational research occurring within the Samuel Lunenfeld Research Institute. The Department of Surgery will play a major role in development of the Surgery and Oncology Center of Excellence. Dr. Jay Wunder was appointed Head of the Department of Surgery, Surgeon-in-Chief, and clinical lead for the Surgery and Oncology Center of Excellence which has the following strategic objectives:

- Strengthen patient and family-centered care with a focus on patient safety
- Advance the hospital’s role as an academic health science center through greater scientific and clinical interaction
- Broaden community-health collaborations
- Strengthen accountability and improve outcomes

A major focus of the department over the past year through the efforts of the Surgery and Oncology Center of Excellence involved increasing surgical volumes and improving wait times for patients as part of the Ontario Wait Times Project. This focused on colorectal cancer, breast cancer, extremity and retroperitoneal sarcoma, and hip and knee arthroplasty. Our group provided exemplary leadership in this area particularly within our LHIN in meeting all volume requirements, and in demonstrating major improvements in the length of time patients wait for their surgery. We also collaborated on a number of LHIN-wide patient care initiatives including:

- development of specific Patient Care Pathways to meet the medical and rehabilitation needs of arthroplasty patients as part of the Total Joint Network
- implementation of a Central Referral, Intake and Assessment Center jointly between Mount Sinai Hospital and Toronto Western Hospital/UHN for patients requiring care for joint diseases and aimed at streamlining the process particularly for the arthroplasty population by including advanced practice physiotherapists in the center
- The Hip Fracture Project to streamline in-patient care and timely discharge planning for elderly patients with hip fractures, also as part of the Total Joint Network
- The Colonoscopy Screening Intake Unit at Mount Sinai Hospital as a collaborative program between Mount Sinai Hospital and UHN to focus on screening for individuals at increased risk for developing colorectal cancer

**New Staff**

Dr. Alex Zlotta joined the Division of Urology from Brussels, Belgium. Alex is a world-renowned surgical oncologist recruited to develop a Uro-oncology program at Mount Sinai Hospital as part of the mandate of The Murray Koffler Urologic Wellness Centre, and in conjunction with the Uro-oncology site group and Department of Surgical Oncology at Princess Margaret Hospital. Alex has a very impressive clinical research program with peer-reviewed grant funding, is a sought-after speaker and educator, is the Associate Editor of the journal European Urology and successfully moved the journal’s Editorial Office to Toronto from Brussels. As part of his appointment at the Samuel Lunenfeld Research Institute, he will help establish new translational genetic programs focusing on early diagnosis and risk profiling for patients with bladder cancer and familial prostate cancer.
Appointments, Promotions and Awards

Dr. Allan Gross was awarded the Genzyme International Cartilage Repair Society (ICRS) Cartilage Research Lifetime Award. Dr. Gross is also the head of the Orthopaedic Expert Panel as part of the Ontario Wait Times Project. Dr. David Backstein continues in the important role as Director of Undergraduate Education for the Department of Surgery. Dr. Peter Ferguson ranked in the top 10 of both Under-graduate teachers as well as Post-graduate teachers in the Department of Surgery. Dr. Ferguson also received the Robert B. Salter Teaching Award, as the best resident teacher in the University of Toronto Division of Orthopaedic Surgery, as voted on by the orthopaedic residents. Dr. Jay Wunder was promoted to Full Professor.

Dr. Kirk Lo received a Canadian Urology Association Research Scholarship. Dr. Alex Zlotta received his PhD in Brussels.

Alexandra Easson is a member of the Palliative Care Group of the American College of Surgeons. Dr. Helen MacRae played a major role in the recent expansion of the Surgical Skills Centre in her capacity as the D.H. Gales Director of the University of Toronto Surgical Skills Centre. Dr. Robin McLeod is a Regent of the American College of Surgeons. Carol Swallow is the Chair of the RCPSC General Surgery Oncology Specialty Committee and Chair of the Research Committee of the Canadian Association of General Surgeons. The Zane Cohen Digestive Disease Research Unit was named and opened. The aim of this site will be to bring together and help coordinate the activities of the many researchers interested in GI diseases from across the University of Toronto hospitals.

Research

Research productivity in terms of publications and peer reviewed funding remained at an all time high for members of our department.

In Memory

We will all sadly miss Dr. Saul Sidlofsky who passed away this year shortly after retiring. Saul spent his career at Mount Sinai Hospital in the Division of General Surgery and developed an interest and practice focusing on breast disease. His efforts were instrumental in developing the breast cancer program at Mount Sinai Hospital which lead to the initiation of the multidisciplinary Marvelle Koffler Breast Centre.
DIVISION OF GENERAL SURGERY

Dr. Z. Cohen – Professor
Dr. A.M. Easson – Assistant Professor
Dr. M.R. Goldberg – Associate Professor
Dr. R. Gryfe – Assistant Professor
Dr. I.H. Koven – Associate Professor
Dr. H.M. MacRae – Associate Professor
Dr. J.A. McCart – Assistant Professor
Dr. R.S. McLeod – Professor (Division Head)
Dr. I.B. Rosen – Professor
Dr. C.J. Swallow – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

Cohen Z: Mentoring in the Inflammatory Bowel Disease (IBD) Symposium, Toronto, ON, November 2006.

Cohen Z: Symposium on Inflammatory Bowel Disease, Annual Meeting, American College of Surgeons, Chicago, IL, October 2006.

Cohen Z: Visiting Professor, St. Mark’s Hospital, London, England, June 2007. 25 years experience with the pelvic pouch procedure.

Easson AM: Special Lecture, Division of General Surgery, University of Western Ontario, sponsored by the Educational Fellowship Program in Care at the End of Life of the Associated Medical Services, London, ON, May 2007. Palliative surgery: Care when there is no cure.

Easson AM: American Society of Clinical Oncology, Chicago, IL, June 2007. Surgical management of malignant bowel obstruction.


MacRae HM: Sidney Colorectal Surgical Society Annual Scientific Meeting 2006, Sydney, Australia, November 2006. (1) Laparoscopic surgeries for IBD diseases, (2) Laparoscopic surgeries for colorectal cancer.

MacRae HM: American Association of Medical Colleges Research in Medical Education Annual Meeting, Seattle, WA, November 2006. Self-assessed proficiency on technical surgical skill is an accurate predictor of technical performance.


McLeod RS: Current Principles & Practice 2006, University of Minnesota, Minnesota, MN, September 2006. Anal fissure - To operate or not to operate?


McLeod RS: Surgical Caucus of the American Medical Association, Chicago, IL, June 2007. Canadian health care system.


McLeod RS: Current Principles & Practice 2006, University of Minnesota, Minnesota, MN, September 2006. Ileonal pouch: One, two or three stages?


McLeod RS: Canadian GastroIntestinal (GI) Fellows Course, Toronto, ON, November 2006. What the gastroenterologist should know about Inflammatory Bowel Diseases (IBD) surgery.

Swallow CJ: Ontario Gastrointestinal Multidisciplinary Oncology Conference, Toronto, ON, November 2006. Are there indications for surgery in the setting of gastrointestinal malignancies with isolated peritoneal metastases?


Swallow CJ: Canadian Society for Surgical Oncology (CSSO) Symposium, Canadian Surgical Forum, Calgary, AB, September 2006. Weird and wonderful tumours of the GI tract - GIST.

Research and Investigations

Senior Investigator’s Name Appears in Italics

An exploration of patient preferences for the management of malignant ascites. Easson AM, Anoo T: Department of Psychosocial Oncology, University of Toronto. ($6,000 2006 - 2007.)

Assessment of the relief of symptoms after the drainage of ascites: An evaluation of four questionnaires. Easson AM, Bezjak A, Ross S, Wright J: Dean’s Fund New Staff Award. ($10,000 2003 - 2009.)

Associated Medical Services Fellow in End of Life Care. Easson AM: Associated Medical Services. ($125,000 2004 - 2009.)

Disclosure of surgical error, death and dying, challenging situations: Teaching and evaluating communication skills in a surgical education program. Easson AM, Hawryluck L: Dean’s Excellence Fund for Medical Education, University of Toronto. ($20,000 2003 - 2006.)

Evaluation of vaccinia virus oncolysis in glioblastoma. McCart JA: University of Toronto, Faculty of Medicine, Grant Miller Cancer Research Grant. ($19,126 2003 - 2008.)

Evidence based reviews in surgery. McLeod RS: Ethicon and Ethicon Endosurgery. ($90,000 2006 - 2007.)


Molecular epidemiological studies of patient outcome and response to treatment. (Interdisciplinary research on the determinants and impact of colorectal cancer: Molecular genetic factors, risk modifiers and population health.) McLaughlin J, Gryfe R: Canadian Institutes of Health Research. ($3,627,210 2006-2010.)

Palliative surgical procedures in a cohort of Stage IV lung and colorectal cancer patients. Easson AM, Walsh A, Rodin G: Mount Sinai Hospital Department of Surgery AEF. ($5,000 2006.)

Plk4 and chromosomal instability. *Swallow CJ, Dennis JW: Canadian Institutes of Health Research.* ($447,000 2006 - 2009.)


Preclinical assessment of vaccinia virus for functional tumour imaging. *McCart JA: University of Toronto, Faculty of Medicine, Dean’s Fund.* ($9,997 2002 - 2007.)

Self-assessment of technical surgical ability by medical student and its impact on training: A randomized controlled study. *Dubrowski A, Jowett HN, LeBlanc V, MacRae H: Dean’s Excellence Fund for Medical Education.* ($28,620 2006.)

The prognosis of colorectal cancer in patients with inflammatory bowel disease compared to population controls. *Brown CJ, McLeod RS, Gallinger S, Gryfe R: The National Colorectal Cancer Campaign.* ($10,000 2006 - 2007.)

The prognosis of colorectal cancer in patients with inflammatory bowel disease compared to population controls. *Brown CJ, McLeod, RS, Gallinger S, Gryfe R: Goldstein Ogden Fund.* ($10,000 2006 - 2007.)

Vaccinia as an oncolytic therapeutic virus for CLL. *McCart JA, Spaner D, Foley R: The Leukemia and Lymphoma Society of Canada.* ($100,000 2005 - 2007.)

**Honours Received**

**Cohen Z:** Naming of the Dr. Zane Cohen Digestive Diseases Clinical Research Centre at Mount Sinai Hospital. November 2006.


DIVISION OF ORTHOPAEDIC SURGERY

Dr. D. Backstein – Assistant Professor
Dr. R.S. Bell – Professor
Dr. P.C. Ferguson – Assistant Professor
Dr. A.E. Gross – Professor
Dr. E.A. Silverstein – Assistant Professor
Dr. J.S. Wunder – Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities

Backstein D: Surgical Advances in Orthopaedics, Blue Mountain Resort, Collingwood, ON, September 2006. Acetabular reconstructive options.


Backstein D: Società Italiana di Chirurgia de Ginocchio, Artocopia, Sport, Cartilagine e Tecnologie Ortopediche (SIGASCOT), Bologna, Italy, October 2006. Biologic reconstruction of the knee using fresh allograft.

Backstein D: Surgical Advances in Orthopaedics, Blue Mountain Resort, Collingwood, ON, September 2006. Crosslinked polyethylene - new and improved?


Backstein D: Orthopaedic Surgery Rounds, Assaf Harofeh Hospital, Tel Aviv, Israel, April 2007. Managing bone loss in total knee arthroplasty.

Backstein D: Surgical Advances in Orthopaedics, Blue Mountain Resort, Collingwood, ON, September 2006. (1) Revision total knee replacement. (Moderator), (2) Minimally invasive total knee replacement, (3) Mobile bearing total knee replacement.


Bell RS: Annual Nigel Rusted Guest Lecture, Discipline of Surgery, Faculty of Medicine, Memorial University of Newfoundland, St. John’s, NF, May 2007. (1) The triumph of limb salvage surgery, (2) Hedgehogs, stem cells and patients.


**Gross AE:** Invited Faculty, Zimmer Hip & Knee Revision Arthroplasty: Issues and Techniques, New York, NY, December 2006. Case presentations: (1) Use of allograft & cages in revision arthroplasty surgery, (2) ZMR hip system in revision THA.

**Wunder JS:** Israel Orthopaedic Association, Tel Aviv, Israel, December 2006. (1) How the Terry Fox Story would be different today, (2) Management of pathologic fractures.

**Wunder JS:** Sheba Medical Center, Tel Hashomer, Israel, December 2006. Optimizing management for soft tissue sarcoma.

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


Molecular medicine and surgery phase II central seminars. *Backstein D*, Woods N, Massicotte E: **McLaughlin Centre for Molecular Medicine Grant.** ($8,876 2006 - 2007.)


Predictors of disability outcomes following revision total knee arthroplasty (renewal). *Davis A*, Garbuz D, Gignac M, Gross A, Kiss A, Mahomed N, Schemitsch E: **Canadian Institutes of Health Research.** ($284,640 2005 - 2010.)


Honours Received


Ferguson PC: Robert B. Salter Award - Outstanding Teacher as voted by orthopaedic residents. October 2006.

DIVISION OF PLASTIC SURGERY

Dr. N.H. McKee – Professor

Invited Visits to Other Hospitals/Universities

McKee NH: Seminar, Common Hand Complaints, Ontario College of Family Physicians 44th Annual Scientific Assembly, Toronto, ON, November 2006.

McKee NH: World Society for Reconstructive Microsurgery, Athens, Greece, June 2007. “Muscle Reinnervation” presentation (one-third of an instructional course on “Muscle research” – Moderator and Presenter.)

Research and Investigations

Senior Investigator’s Name Appears in Italics

Creating a user friendly interface for the “Helping Hand”. McKee NH, Anne Agur, Karan Singh, Eugene Fiume, Michele Oliver: Canadian Society for Surgery of the Hand. ($10,000 2006 - 2007.)
DIVISION OF UROLOGY

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

Publications


Invited Visits to Other Hospitals/Universities


Zlotta A: Invited Lecturer of the Urological Society of Tokyo and of Shin Egawa, Professor and Chair, Department of Urology, JIKEI University School of Medicine, Tokyo, Japan, February 2007. PSA and new markers in prostate cancer: Targeted therapies and new therapies for hormone-refractory prostate cancer.

Zlotta A: Chairman of Session and Invited Faculty, 22nd Congress of the European Association of Urology (EAU), Berlin, Germany, March 2007.

Zlotta A: Invited Faculty, European School of Urology (ESU), Prague, Czech Republic, March 2007. Prostate biopsy course.

Zlotta A: Chairman of Session, Canadian Urological Association Meeting, Quebec City, PQ, June 2007.


Zlotta A: Faculty Speaker, 2nd GenitoUrinary (GU) Oncology Conference, Cape Town, South Africa, November 2006.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A novel model for the xenotransplantation of fresh and cryopreserved testicular tissues using the immunodeficient NCR mice. Lo KC, Jarvi K, Mullen B, Casper R: Canadian Urological Association Scholarship Fund. ($40,000 2005 - 2006.)


Honours Received

Zlotta A: Conferred Docteur en Sciences Medicales (PhD) degree, Universite Libre de Bruxelles (Free University of Brussels) with the unanimity of all members of the jury. January 2007.
The past year has been both challenging and exciting for the Department of Surgery at St. Joseph’s Health Centre. The environment has been continually changing as we try to adapt to the wait list initiatives with regards to hip and knee joint replacement surgery and surgical oncology. In both of these areas, we were able to achieve our targets. In the area of surgical oncology, we began multidisciplinary tumour boards in February of 2007. The tumour boards involve surgeons and medical oncologists from St. Joseph’s Health Centre along with radiation oncologists from the University Health Network.

In terms of our wait lists for surgical oncology, our biggest challenge has been with urology cases. The Department has recruited Dr. Ashis Chawla, who has trained in minimally invasive urological surgery at MacMaster University. Hopefully, Dr. Chawla will help to improve wait times in urological cancer surgery.

In terms of facilities, St. Joseph’s has begun the destruction of Our Lady of Mercy Wing in preparation for building a new patient tower on that same site. The demolition alone will last for approximately one year.

**Appointments and Promotions**

Dr. Amr ElMaraghy was promoted to Assistant Professor in the Division of Orthopaedic Surgery, recognizing his contribution to teaching, research and clinical excellence. Dr. Lloyd Smith was promoted to Associate Professor in the Division of General Surgery, recognizing his contribution to post-graduate teaching and minimally invasive surgery. Dr. Lloyd Smith was appointed as the General Surgery Fellowship Director for the University Division of General Surgery. Dr. Paul Sullivan was appointed as the Director of the University of Toronto Minimally Invasive Surgery Fellowship. Dr. Yaron Shargall was appointed as the Director of Medical Education for St. Joseph’s Health Centre.

**Awards**

Dr. Lloyd Smith won the Family Medicine Award for Best Surgical Teacher and Dr. Richard Hart won the Ernie Spratt Award for Best Surgical Teacher in the Division of General Surgery.

Dr. Ronald Levine won the E. Bruce Tovee Teaching Award for outstanding post-graduate teaching.

**Conclusion**

The Department of Surgery has reaffirmed our vision to become the Best Community Teaching Hospital in Canada. Currently, we have residents or fellows in all our surgical sub-specialties and we will continue to develop our teaching program further. Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery.
DIVISION OF GENERAL SURGERY

Dr. T. Harmantas – Assistant Professor (Division Head)
Dr. R. Hart – Lecturer
Dr. D. Lindsay – Lecturer
Dr. L.C. Smith – Assistant Professor
Dr. P. Sullivan – Lecturer

Invited Visits to Other Hospitals/Universities


Smith L: Owen Sound Hospital (aka: Brey Bruce Regional Hospital), Owen Sound, ON, July 2006. Preceptorship in laparoscopy anti-reflux surgery.


Honours Received

Hart R: Ernie Spratt Resident Teaching Award, November 2007, St. Joseph’s Health Centre’s Clinical Day.

DIVISION OF ORTHOPAEDIC SURGERY

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

Invited Visits to Other Hospitals/Universities


Research and Investigations

Senior Investigator’s Name Appears in Italics

(1) Patient satisfaction with anesthetic technique and setting for open carpal tunnel release, (2) Ontario Physician Practice Survey: Choice of anesthetic technique and setting for open carpal tunnel release. ElMaraghy AW, Panchapakesan V: St. Joseph’s Health Centre Surgical and Oncology Program Research Grant. ($3,500 2006 - 2007.)

Morphometric assessment of acromial interaction with the clavicular hook plate. ElMaraghy AW, Devereaux MD: Synthes Canada Ltd. ($30,000 2007 - 2008.)

DIVISION OF PLASTIC SURGERY

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

Publications


Invited Visits to Other Hospitals/Universities


Honours Received

Levine R: Bruce Tovee Award. 2007.
DIVISION OF THORACIC SURGERY

Dr. C. Compeau – Assistant Professor (Division Head)
Dr. Y. Shargall – Assistant Professor
Dr. E. Spratt – Associate Professor

Publications

DIVISION OF UROLOGY

Dr. U. Jain – (Division Head)
Dr. A. Marcuzzi – Lecturer
Dr. A. McLean
Dr. J.H. Wait – Lecturer
It’s been an extremely exciting year for the Department of Surgery at St. Michael’s Hospital. The atmosphere of late has been abuzz with plans of the new Li Ka Shing Knowledge Institute and all its amenities. The potential opportunities for research and education activities within a single institute appear unlimited.

The most exciting part of the past year’s activities has been to welcome our new recruits. In July, we welcomed Dr. Julian Spears to the Division of Neurosurgery and Dr. Avery Nathens to the Division of General Surgery who assumes the role of Division Head as well as the Director of the Trauma Program.

Dr. Spears is a graduate of the University of Toronto Neurosurgery training program and during the context of his training received his Master of Science in Clinical Epidemiology from Harvard University School of Public Health. He is unique in his clinical skills in that he is trained not only as a clinical neurosurgeon but also as an interventional neuroradiologist. He also holds a co-appointment in the Department of Medical Imaging. His skills in outcomes research will also complement the outstanding clinical care given by our hospital team in this area.

Dr. Nathens is also a University of Toronto graduate, having obtained a Doctoral Degree from the Surgeon-Scientist Program, focusing on the inflammatory response following injury. He then did a fellowship in trauma and critical care at the University of Washington, Harborview Medical Centre concentrating on trauma system models. Dr. Nathens also holds a Tier II Canada Research Chair in Systems of Trauma.

In January we were delighted to welcome Dr. Subodh Verma to the Division of Cardiovascular and Thoracic Surgery, Dr. Teodor Grantcharov to the Division of General Surgery and Dr. R. Loch Macdonald as the new Head, Division of Neurosurgery and Keenan Endowed Chair in Surgery.

Dr. Verma completed his MD training in Calgary, obtained a PhD in Cardiovascular Pharmacology from the University of British Columbia, and did his post-doctoral and fellowship training in Toronto. Dr. Verma brings with him an exceptional reputation in cardiovascular research, having won several awards and has published a multitude of peer reviewed papers in highly regarded Journals.

Dr. Grantcharov completed his Doctoral Degree in medical sciences from the University of Aarhus in Denmark, did his surgical residency at the Copenhagen University and then went on to complete a fellowship in minimally invasive surgery at the Western Pennsylvania Hospital, Temple University School of Medicine in Pittsburgh. Dr. Grantcharov’s clinical interest is in the area of minimally invasive surgery, with a focus on foregut disease including cancer. His academic interest is in the field of surgical simulation.

Dr. Loch Macdonald did his neurosurgical training in Toronto and joins us from the University of Chicago where he was once named one of the top surgeons in Chicago. His clinical interest and expertise is in cerebrovascular surgery and neurosurgery for the brain and spinal cord tumors. A warm thanks to Dr. William Tucker for being the interim Division Head while awaiting the arrival of Dr. Macdonald.
St. Michael’s Hospital was once again cited as the most popular site for clinical clerk training for students at the University of Toronto. In June, St. Michael’s Hospital hosted a Physicians and Surgeons Education Achievement Day. Our Faculty has been recognized for excellence in teaching by receiving a number of recognition awards. Dr. John Bohnen received the William Horsey Postgraduate Teaching Award; Dr. Robert Stewart was awarded the Donald J. Currie Teaching Award for Undergraduate Teaching; the Leo Mahoney Resident Teaching Award went to Dr. Michael Kogan (Resident), and the McGoey Award in Orthopaedic Surgery went to Dr. Vanessa Stass (Resident.)

Dr. David Latter has accepted the role of Director of Fellowship Training, Department of Surgery, University of Toronto, as well as the role of Deputy, Surgeon-in-Chief at St. Michael’s Hospital. Dr. John Bohnen was awarded the Best Lecturer in the Principles of Surgery Seminar Series. Dr. Bohnen has also been chosen as the 2006 PAIRO Lois H. Ross Resident Advocate Award and the Gulf Cooperation Council Residency Program Director of the Year. Dr. William Tucker was affirmed the next President of the Canadian Medical Protective Association and assumed that role in August. Dr. Ori Rotstein was awarded the Graduate Course Lecturer Award at the Institute of Medical Science and has been appointed to another five-year term as Director of the Institute of Medical Science.

Several members in our Department have also been awarded Values in Action Awards for their outstanding contribution to the Hospital and to our core values of Human Dignity, Excellence, Compassion, Social Responsibility, Community of Service and Pride of Achievement. The Wound Care Team which included Drs. James Mahoney, Melinda Musgrave, and Timothy Daniels won the Values in Action Award for Excellence. Dr. Michael Cusimano was awarded the Values in Action Compassion Award.

Promoted this year to the rank of Associate Professor was Dr. Robert Mustard.

As we move into the next academic year, we look forward to further opportunities for growth in our Department.
DIVISION OF CARDIOVASCULAR AND THORACIC SURGERY

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

Publications


Invited Visits to Other Hospitals/Universities

Errett LE: Canadian Cardiovascular Society, Vancouver, BC, October 2006. Annual Canadian Cardiovascular Congress.


Errett LE: Bayer Healthcare Diagnostics. Presented at the Sudbury General Hospital, Sudbury, ON, June 2007. The role of anti-platelet medications in cardiac surgery.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Adiponectin and Inflammation. Verma S: Canadian Diabetes Association. ($75,000 2007 – 2009.)

Does nutrient supplementation influence cardiac structure, function and survival by altering energy metabolism? **Keith M, Briet F, Stewart D, Mazer CD:** *Canadian Institutes of Health Research.*  ($156,000 2005 - 2007.)

Effects of ezetimibe on adipokines in diabetes. (Investigator-initiated proposal) **Verma S:** *MerckFrosstSchering Canada.*  ($95,000 2006 – 2007.)

Endothelial function testing (FATE Study.) **Anderson TJ:** *Canadian Institutes of Health Research and Pfizer Canada.*  ($150,000 2004 – 2009.)

Endothelial progenitor cells and PPAR. **Verma S:** *Heart and Stroke Foundation.*  ($70,000 2004 – 2006.)

Glitazones and endothelial function. (Investigator-initiated proposal) **Verma S:** *GlaxoSmithKline Canada.*  ($65,000 2005 – 2007.)

Group Grant to train junior researchers in the area of clinical and basic atherosclerosis, Traineeship in Atherosclerosis Program, St. Michael’s Hospital, University of Toronto. **Verma S, Latter D, Errett L, Parker T:** *Sanofi-Aventis Canada, Novartis Canada, Glaxo-SmithKline Canada, Merck, MerckFrosstSchering Canada.*  ($350,000 2006 - 2007.)


Nocturnal hemodialysis and endothelial repair. **Chan C, Verma S:** *Heart and Stroke Foundation.*  ($72,000 2005 – 2007.)

Ramipril and CRP (4r trial.) **Verma S:** *Sanofi Aventis Canada.*  ($270,000 2004 – 2006.)

RasGRP3: Novel target of endothelial progenitor. **Verma S:** *Heart and Stroke Foundation.*  ($76,000 2006 – 2008.)

Telomerase regulation by C-reactive protein. **Verma S:** *Canadian Institutes of Health Research.*  ($93,000 2005 – 2008.)

The “ADVANTAGE “ heart valve study. **Errett LE, Bonneau D, Latter D, Leclerc Y, Salasidis G:** *Medtronic of Canada Ltd.*  ($600,000 2001 - 2006.)

The impact of cardiopulmonary bypass and cardiac surgery on lymphocyte energetics and immune function in patients with non-insulin dependent diabetes mellitus. **Briet F, Keith M, Errett L, Mazer D:** *Society of Cardiovascular Anesthesiologists.*  ($40,000 2005 - 2007.)

Traineeship in atherosclerosis. **Verma S:** *Rx & D Companies.*  ($300,000 2006 – 2007.)

**Honours Received**

**Errett LE:** The Norman Bethune Award - China’s highest honour award in recognition to Dr. Errett’s contributions to cardiac surgery and training of surgeons in China. November 2006.
DIVISION OF GENERAL SURGERY

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

Publications


Invited Visits to Other Hospitals/Universities


Ali J: American College of Surgeons, Sao Paolo, Brasil, August 2006. Advanced trauma life support (ATLS) program.

Ali J: American College of Surgeons, Chicago, IL, June 2007. (1) Advanced trauma life support (ATLS) program, (2) Prehospital trauma life support (PHTLS) program.

Ali J: American College of Surgeons, Costa Rica, October 2006. (1) Advanced trauma life support (ATLS), instructor course, (2) Advanced trauma life support (ATLS), provider course.

Ali J: American College of Surgeons, St. John’s, NF, November 2006. Advanced trauma life support (ATLS), instructor course.

Ali J: Sunnybrook Health Sciences Centre, Toronto, ON, November 2006. Advanced trauma life support (ATLS), instructor course.


Ali J: University of West Indies, Trinidad and Tobago, November 2006. Trauma training in the Caribbean - lessons learned.


Baxter N: University of Buffalo, Grand Surgical Rounds, Buffalo, NY, November 2006. What do we know about nodes?


Grantcharov T: 15th Congress of the European Association of Endoscopic Surgery, Athens, Greece, June 2007. (1) Achieving consensus for virtual reality program, (2) Comprehensive training curriculum in minimally invasive surgery. How far are we from global implementation?

Grantcharov T: Danish Surgical Society Annual Meeting, Copenhagen, Denmark, November 2006. Advanced laparoscopic surgery training - Can we shorten the learning curve?


Marshall JC: 3rd Critical Care Science Symposium, Brisbane, Australia, August 2006. (1) Sepsis: Evolving concepts, (2) Choosing the best biomarker, (3) Is there still a place for anti-TNF therapies?


Marshall JC: 11th Toronto International Symposium on Acute Care, Toronto, ON, October 2006. (1) Endotoxin in the critically ill, (2) How does the immune system recognize danger? (3) What is the role of endotoxia?


Marshall JC: 9th Course on Critical Care Medicine, Mechanical Ventilation, and Sepsis, Mexico City, Mexico, July 2006. (1) Outcomes from clinical trials in the ICU, (2) Staging sepsis using PIRO, (3) Biomarkers of sepsis.

Marshall JC: 7th World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany, March 2007. (1) Source control: How to achieve it; why it fails, (2) The case for treating colonized patients to reduce antibiotic resistance development: Con, (3) Sepsis: How important is infection?, (4) Therapeutic targets and clinical staging in antimicrobial trials, (5) Endpoints for randomized controlled trials in trauma.


Marshall JC: 7th European Congress of Clinical Microbiology and Infectious Disease, Munich, Germany, March 2007. From SIRS to PIRO: What makes the difference?


Marshall JC: 60th Societa’ Italiana Di Anestesia Analgesia Rianimazione E Terapia Intensiva (SIAARTI), Umbria, Italy, October 2006. The role and measurement of endotoxin in the septic patient.


Nathens AB: Clinical Congress of the American College of Surgeons, Chicago, IL, October 2006. Adjunctive therapies in necrotizing soft tissue infections.


Nathens AB: Expert Panel, Wait Times: Where Are We Now And Where We Need To Go Next, Ontario Hospital Association, Toronto, ON, February 2007. Results and lessons learned.

Nathens AB: American Cancer Society (ACS) Grant Writing Symposium, Clinical Congress of the American College of Surgeons, Chicago, IL, October 2006. Specifics of grant writing.

Nathens AB: Society of University Surgeons Second Annual Academic Congress, Phoenix, AZ, February 2007. The survival advantage in trauma centers: Expeditious intervention or experience?


Rotstein OD: General Surgery Expert Panel, Wait Times: Where We Are Now and Where We Need to Go Next, Ontario Hospital Association, Toronto, ON, February 2007. Results and lessons learned.

Research and Investigations
Senior Investigator’s Name Appears in Italics


Ca2+ signaling in acute hypoxia: Role of the Na+/Ca2+ exchanger in endothelial responses. Szaszi K: Canadian Institutes of Health Research Senior Research Fellowship. ($100,000 2005 - 2007.)


Clinical Research Network for the Treatment of ALI and ARDS. (2.5% effort). Nathens AB: National Institutes of Health. ($9 2006 - 2012.)

Clinical Trials Incubator Unit, Specialized Centers of Clinically Oriented Research (SCCOR) Program in acute lung injury. (20% effort.) Nathens AB: National Institutes of Health. ($1,707,032 2003 - 2008.)


Determining the optimal configuration of organized systems of trauma care: Inclusive versus exclusive trauma systems. (5% effort). Nathens AB: Centers for Disease Control. ($150,000 2004 - 2006.)


Evaluating the safety and reliability of transcolonic abdominal exploration. Baker J: St. Michael’s Hospital GI Division Research Grant. ($16,000 2007.)

International collaborative research development proposal - Age of blood study. *Hebert PC*, Marshall JC: *Canadian Institutes of Health Research*. ($25,000 2006.)

Membrane potential-dependent inflammatory signaling in kidney tubular cells. *Szaszi K*: *Banting Foundation*. ($20,000 2006 - 2007.)


Regulation of epithelial paracellular permeability by apical transport processes. *Szaszi K*: *Natural Sciences and Engineering Research Council*. ($180,000 2006 - 2011.)


The major goal of the Acute Care Section is to focus on investigations pertaining to care of the injured patient. (5% effort). *Mock C*, Nathens AB: *Centers for Disease Control*. ($602,104 2001 - 2006.)

The role of the cell-cell contact-cytoskeleton-nucleus axis in epithelial-mesenchymal transition of kidney tubular cells. *Kapus A*, Szaszi K: *Kidney Foundation of Canada*. ($100,000 2007 - 2009.)

Treatment and survivorship in young adults with cancer. *Baxter NN*, Urbach D, Rabeneck L: *Ontario Ministry of Research and Innovation Early Researcher Award*. ($190,000 2007 - 2012.)

**Honours Received**


*Bohnen JMA*: Gulf Cooperation Council (GCC) Residency Program Director of the Year. June 2007.

*Bohnen JMA*: William Horsey PostGraduate Teaching Award, St. Michael’s Hospital. June 2007.


Nathens AB: University of Washington, Department of Surgery Teaching Award. July 2006.
DIVISION OF NEUROSURGERY

Dr. M.D. Cusimano – Professor
Dr. H.J. Ginsberg – Assistant Professor
Dr. R.L. Macdonald – Professor (Division Head)
Dr. P.J. Muller – Professor
Dr. R.G. Perrin – Associate Professor
Dr. J.S. Spears – Assistant Professor
Dr. W.S. Tucker – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Cusimano MD: CHIR-Partner Injury Workshop, Canadian Institutes of Health Research, Montreal, PQ, June 2007.

Cusimano MD: Invitee, F7CBI-1600 Study, Results Meeting, Novo Norkisk, Prague, Czech Republic, March 2007.

Cusimano MD: Radio Interview, Mike Stafford Show, AM 640, Toronto, ON, July 2006. Body checking in hockey and concussions.

Cusimano MD: University of Western Ontario, London, ON, October 2006. Diagnosis management and prevention of concussions in hockey.


Cusimano MD: Canadian Radiosurgery Society (CaRS) Meeting, Niagara-on-the-Lake, ON, November 2006. Patterns of referral and therapy with the implementation of a Provincial Gamma Knife Radiosurgery Program.


Ginsberg HJ: Is new technology better technology?, Vail, CO, March 2007. (1) Cervical spine trauma, front, back or front and back, (2) Thoracolumbar, front, back or front and back.


Perrin RG: Surgical Treatment of Pituitary Tumors, Brain Stem Tumors and Use of Endoscoppy in Neurosurgery, WFNS Course - Moscow, Moscow, Russia, May 2007. Session II Moderator.


Spears JS: Chairman of the CNS Section, Hereditary Hemorrhagic Telangiectasia (HHT) Guidelines Conference, Toronto, ON, November 2006.


Research and Investigations

Senior Investigator’s Name Appears in Italics

3-D computer simulator of spinal fusion surgery. Ginsberg H, Whyne C: Stryker Canada. ($15,000 2006 - 2008.)

A randomised, double-blind, placebo-controlled, multi-centre, dose escalation study to evaluate the safety and preliminary efficacy of recombinant factor VIIa (NovoSeven/NiaStase) in subjects with brain contusions (Phase 2). Cusimano MD, Baker A, Ginsberg H, Bruce G, Muller P, Muradali D, Tucker W, Perrin R: Novo Nordisk Canada Incorporated. ($75,000 2005 - 2007.)


Compromised driving ability in trauma and neurosurgery patients: A driving simulator study of patients with focal cerebellar lesions. Cantelmi D, Cusimano MD, Schweitzer TA: St. Michael’s Hospital Trauma/Neurosurgery Program Internal Multi-Disciplinary Small Grant Program. ($1,500 2007 - 2008.)

Currently investigating novel strategies for intra-operative navigation during spinal instrumentation surgery. Ginsberg H, Cobbold R: National Sciences and Engineering Research Council of Canada - $15,000.00 & DePuy Spine $30,000.00 (Johnson & Johnson). ($45,000 2006 - 2008.)

Development of a Novel Computer Program to evaluate patients with emergencies in the fluid, electrolyte and acid-base area. Halperin ML, Ginsberg HJ, Kamel KS, Mazer D, Bohn D, Davids MR: Keenan Award. ($25,000 2006 - 2007.)


Molecular dynamics of wound healing and the role of Eph/Ephrin system in wound angiogenesis (Yassari R, supervisor.) Macdonald RL: American College of Surgeons Resident Research Scholarship. ($60,000 2005 - 2007.)


Role of calpain-mediated modification of delayed rectified potassium channels (kv2.1) in subarachnoid hemorrhage-induced vasospasm (Musleh W, faculty supervisor). Macdonald RL: Neurosurgery Research and Education Foundation Research Scholarship. ($40,000 2006 - 2007.)

Secondary neurological injury after subarachnoid hemorrhage in dogs: Role of thromboembolism, microcirculatory spasm and delayed neuronal apoptosis. (Summer Student Award to Mohammed Sebri, Faculty Supervisor) Macdonald RL: St. Michael’s Hospital. ($4,000 2007.)

The fractionation and localization of attentional and language processing in the cerebellum. Stuss DT, Cusimano M, Alexander MP, Schweizer TA: Canadian Institutes of Health Research. ($270,444 2006 - 2010.)


Using geographic information system (GIS) technology for injury prevention research and control. Cusimano MD, Arena KE, Chipman ML, Glazier RH, Grant VM, Johnson IL, Jones KG, Lea AC: Canadian Institutes of Health Research. ($225,000 2004 - 2007.)

Honours Received

Cusimano MD: Values in Action Award for Compassion-St. Michael’s Hospital. September 2006.


DIVISION OF ORTHOPAEDIC SURGERY

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

Publications


Bogoch ER, Lee TC, Fornasier VL, Berger SA: Articular damage is associated with intraosseous inflammation in the subchondral bone marrow of joints affected by experimental inflammatory arthritis and is modified by zoledronate treatment. Journal of Rheumatology: June 2007: 34: pp 1229-1240.


Invited Visits to Other Hospitals/Universities


Daniels TR: Australian Orthopaedic Association, Canberra, Australian Capital Territories, October 2006. (1) Surgical management of the ulcerated charcot foot, (2) Will ankle arthroplasty replace ankle arthrodesis?, 3) Hallux valgus surgery - Plenty of opinions, plenty of techniques. Are they justified?
Daniels TR: Canadian Orthopaedic Association (COA), Halifax, NS, June 2007. Outpatient percutaneous flexor tenotomies for management of diabetic claw toe deformities with ulcers.


McKee MD: 4th Annual Current Solutions in Orthopaedic Trauma, Orlando, FL, November 2006. (1) Nonunions of the clavicle, (2) Proximal humeral fractures - fix or replace, (3) Upper extremity fixation - lab.


McKee MD: Course Chairman - Nursing Continuing Education, Zimmer Canada, Toronto, ON, October 2006. Basic principles of fracture fixation.


Schemitsch EH: Principles and Practice of Clinical Research, Las Vegas, NE, August 2006. (1) Designing a randomized trial. (Moderator), (2) Lecture: How to prepare a study protocol, (3) Lecture: How are multi-centre trials organized, (4) Breakout Session Leader: Research proposals.


Schemitsch EH: Basic Science Session, Orthopaedic Trauma Association, Phoenix, AZ, October 2006. Moderator.
Schemitsch EH: Basic Science Focus Forum, Phoenix, AZ, October 2006. (1) Symposium Moderator, (2) Enhancement of fracture healing: What is the evidence?


Schemitsch EH: The Principle and Practice of Clinical Research, Goteborg, Sweden, April 2007. (1) How to prepare a study protocol, (2) How to design a good dataform, (3) Writing a successful research proposal, (4) What are the types of non randomized studies?


Schemitsch EH: Canadian Association of Sports Medicine, Quebec City, PQ, April 2007. (1) Pulsed electro magnetic fields: What is the evidence?

Waddell JP: 1st Joint Congress, European Association for Trauma and Emergency Surgery and European Trauma Society, Graz, Austria, May 2007. (1) Is there still a place for oral anticoagulation with cumarin in trauma patients?, (2) Chair, Trauma to the Chest and Abdomen.


Waddell JP: Canadian Institute’s 3rd Annual Reducing Healthcare Wait Times, Toronto, ON, November 2006. Improving access to total joint replacement - A national strategy.

Waddell JP: Global Forum on Road Trauma, Societe Internationale de Chirurgie Orthopedique et de Traumatologie (SICOT), Internet2 Videoconference, Toronto, ON, December 2006. Moderator.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A prospective RCT investigating the effect of a novel reamer aspirator on the incidence of fat embolism during IM nailing of femoral shaft fractures. McKee MD, Schemitsch EH, Bhandari M, Davis E: Orthopaedic Trauma Association. ($65,000 2005 - 2007.)

A randomized controlled trial of 1st MTP joint fusion compared to 1st MTP joint hemiarthroplasty in severe hallux rigidus. Lau JTC, Daniels TR, Waddell JP, Mahomed N: Physicians’ Services Incorporated Foundation. ($36,500 2005 - 2006.)

A randomized trial comparing a novel reamer irrigator aspirator to standard reaming for treatment of femoral shaft fractures. Schemitsch EH, McKee MD: Orthopaedic Trauma Association. ($65,000 2006 - 2008.)


Ankle arthroplasty vs. ankle arthrodesis for end-stage arthritis: A functional comparison. Daniels TR, Duggal N, Redekop S: IFFAS. ($5,700 2005 - 2006.)

Assessment of a computerized navigation system in a cadaveric lower extremity model. Schemitsch EH: Stryker. ($20,000 2006 - 2007.)

AWAIT Study: Adolescent idiopathic scoliosis, are we waiting too long? Wright JG, Ahn H: Restracomp. ($70,000 2005 - 2007.)

Biomechanical and finite element analysis of the Birmingham Hip Resurfacing. Schemitsch EH: Smith and Nephew. ($50,000 2006 - 2007.)


Data collection for monitoring of provincial post fracture osteoporosis screening co-ordinator project. *Beaton DE, Bogoch ER: Ontario Ministry of Health and Long Term Care.* ($111,305 2006 - 2007.)

Development of clinical trials infrastructure. *Schemitsch EH: Orthopaedic Research and Education Fund.* ($150,000 2003 - 2006.)

Development of a fellowship in surgical navigation. *Schemitsch EH: Stryker.* ($50,000 2006 - 2008.)

Development of an international hip fracture research collaborative. *Bhandari M, Guyatt G, Schemitsch EH, Sanders D: Canadian Institutes of Health Research.* ($25,000 2005 - 2006.)


Osteoporosis care for fragility fracture patients. *Bogoch ER: Martin Family Foundation.* ($100,000 2007.)


Refining the coordinator model of post fracture osteoporosis care. *Bogoch ER: Procter and Gamble Pharmaceuticals.* ($50,000 2007.)


To brace or not to brace in stable thoracolumbar burst fractures: A pilot prospective randomized controlled trial. *Wai E, Ahn H: Physicians’ Services Incorporated Foundation.* ($25,000 2007 - 2008.)


Trial to re-evaluate ultrasound in the treatment of tibial fractures. *Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D: Canadian Institutes of Health Research.* ($72,683 2004 - 2006.)

Trial to re-evaluate ultrasound in the treatment of tibial fractures. *Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D: Canadian Institutes of Health Research/Smith and Nephew.* ($400,000 2006 - 2010.)

Trial to re-evaluate ultrasound in the treatment of tibial fractures. *Guyatt G, Bhandari M, Busse J, Schemitsch EH, Sanders D: Smith and Nephew.* ($1,600,000 2006 - 2010.)


Use of a novel scaffold to accelerate fracture healing. *Kuzyk P, Schemitsch EH, Davis J: Osteosynthesis and Trauma Care Foundation.* ($10,000 2007 - 2008.)
Honours Received

Daniels TR: Director of Postgraduate Education in Department of Surgery at St. Michael’s Hospital. November 2006.

Daniels TR: International Faculty Guest Speaker at the Annual Scientific Meeting of the Australian Orthopaedic Association, Canberra Australia. October 2006.


McKee MD: Orthopaedic Trauma Association - Top Basic Science Poster - Ideal tibial intramedullary nail insertionpoint varies with tibial rotation. October 2006.


Schemitsch EH: Best Poster Award Orthopaedic Trauma Association (Walker RM, McKee MD, Waddell JP, Schemitsch EH) 2006.


Schemitsch EH: Guest Lecturer Australian Orthopaedic Association. 2006.


Schemitsch EH: Bovill Award Best Paper Orthopaedic Trauma Association Annual Meeting 2006. (McKee MD, Schemitsch E and the Canadian Orthopaedic Trauma Society) 2007.
DIVISION OF PLASTIC SURGERY

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

Publications


Invited Visits to Other Hospitals/Universities


Mahoney JL: Southwestern Medical Centre, Dallas, TX, April 2007. Advanced techniques: (1) Complex chest and body wall reconstruction. Initial management of sternal wounds. (2) Complex chest and body wall reconstruction: Postoperative issues.


Mahoney JL: Society for the Advancement of Wound Care, Tampa, FL, April 2007. The impact of pressure ulcers on patient quality of life: Validation of the cardiff wound impact questionnaire.


Musgrave MA: Local Health Integrated Networks and Seamless Wound Care: The Art and Science of Building Bridges, Markham, ON, September 2006. Controversies in wound infection.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Honours Received


Mahoney JL: Values in Action - St. Michael’s Hospital Award for Clinical Excellence in Wound Care. October 2006.

Mahoney JL: WK Lindsay Resident Research Award - Division of Plastic Surgery, University of Toronto. April 2007.

DIVISION OF UROLOGY

Dr. R.J.D. Honey – Associate Professor (Division Head)
Dr. K.T. Pace – Assistant Professor
Dr. R.J. Stewart – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Pace KT: Canadian Urological Association Educational Forum on Endourology, Quebec City, QC, June 2007. Shock wave lithotripsy is the best initial treatment for most lower calyceal stones.

Pace KT: Canadian Urological Association Educational Forum on Endourology, Quebec City, QC, June 2007. Shock wave lithotripsy is the best initial treatment for most proximal ureteric stones.

Research and Investigations


Honours Received

DIVISION OF VASCULAR SURGERY

Dr. F.M. Ameli – Associate Professor (Division Head)

Dr. V. Campbell – Lecturer

Dr. A.G. Lossing – Associate Professor

Dr. W. Tanner – Lecturer

Invited Visits to Other Hospitals/Universities

Ameli FM: Special Invitation to President’s Dinner, The Vascular Society of Great Britain and Ireland, Edinburg, Scotland, November 2006.


Sunnybrook had an eventful year with the initiation of capital redevelopment of the Emergency Room and the construction of three new ambulatory operating rooms at the Bayview Campus. Searches for Chiefs of the Trauma Critical Care Strategic Program and the Department of Medicine were successfully completed and a member of our own Department, Dr. Barry McLellan, was appointed CEO. David Leslie was identified as the new Board Chair.

New Staff

Natalie Coburn was appointed as a Surgeon-Investigator in the Division of General Surgery bringing further expertise in hepatobiliary and gastric cancer management to Sunnybrook. Darlene Fenech was appointed as a Surgeon-Investigator in the Division of General Surgery to develop a practice in complex colorectal oncologic surgery. Shariar Shahrokhi was appointed as a Surgeon-Teacher in the Division of Plastic Surgery to provide comprehensive care to patients with burns. Veronica Wadey was appointed as a Surgeon-Investigator in the Division of Orthopaedic Surgery with an interest in educational research and joint replacement. Richard Jenkinson and Diane Nam were appointed as Clinical Associates in the Division of Orthopaedic Surgery to augment clinical services in trauma care and reconstruction. Fred Vincent and Nick Phan were appointed as Clinical Associates in the Division of Neurosurgery to augment care in this area.

Appointments and Promotions

Paul Binhammer was promoted to Assistant Professor and identified as the Head of the Division of Plastic Surgery. Homer Tien was promoted to Assistant Professor having successfully completed his postgraduate degree in the Department of Health Policy, Management and Evaluation.

Claire Holloway was promoted to Associate Professor in the Division of General Surgery in recognition of her scholarly activity in the surgical management of breast cancer. John Murnaghan was promoted to Associate Professor in the Division of Orthopaedic Surgery in recognition of his contributions to education. Sandro Rizoli was promoted to Associate Professor in the Division of General Surgery for his contributions to our understanding of the management of shock. Cari Whyne was promoted to Associate Professor in the Division of Orthopaedic Surgery for her scholarly activity in biomechanics. Hans Kreder was promoted to Full Professor in the Division of Orthopaedic Surgery in recognition of his scholarly activity in the field of hip and knee reconstruction.

Sender Herschorn was installed as the inaugural holder of the Martin Barkin Chair in Urological Research. Andy Smith was appointed as the inaugural leader of knowledge translation in the Centre for Health Services Research of the Sunnybrook Research Institute, established to identify opportunities for improvement and innovation at the interface between care and research. Laurence Klotz was named founding Editor-in-Chief of the Canadian Urological Association Journal and President-Elect of the Canadian Urology Association.

Educational Activity and Awards

Terry Axelrod received an excellence in Continuing Education Award and Rob Nam received a Clinical Teaching/Supervision Award from the Peters Boyd Academy. Sender Herschorn received the WT Aiken Award for Undergraduate Medical Education Individual Teaching Excellence from the Faculty.

Claire Holloway and Laurence Klotz gave presentations at the Institution’s second annual cancer research day. Robin Richards co-directed and Stewart Wright participated in the 23rd Annual Upper Extremity Update. Claire Holloway, Daryl Kucey, Sandro Rizoli, Homer Tien, Fred Brenneman, and Lorraine Tremblay contributed to the 47th Annual Update in General Surgery. Andy Smith directed and Claire Holloway, Calvin Law, May Lynn Quan and Frances Wright participated in the Update in Surgical Oncology.

Mike Schwartz arranged and hosted the second meeting of the Canadian Radiosurgical Society in Niagara-on-the-Lake. Oleh Antonyshyn, assisted by Jeff Fialkov, organized a successful craniofacial surgery symposium with live surgical demonstrations. Lesley Carr contributed to a symposium on pain in the pelvis. Bernie Goldman gave the W.G. Bigelow Lecture at the annual general meeting of the Canadian Cardiovascular Society.
Research Activity and Awards
Natalie Coburn received a Dean’s Fund New Staff Grant for a study of gastric cancer care in Ontario. Paul Marks was appointed as an Associate Member to the Institute of Medical Science. May Lynn Quan and Anna Gagliardi together with co-investigator Frances Wright received funding from the Canadian Breast Cancer Foundation.

Robert Nam received CIHR and NCIC grants for his research in prostate cancer screening and risk assessment. Vasu Venkateswaran with co-applicants Laurence Klotz and others received a CIHR operating grant and a Prostate Cancer Research Foundation grant.

Manuel Gomez, Rob Cartotto, Joel Fish and their students had multiple presentations at the 39th Annual Meeting of the American Burn Association. Karen Cross, supervised by Joel Fish, received the PSI Resident Research Award for her work on burn depth assessment using infra-red spectroscopy.

Other Awards and Activities
Mike Ko, Varun Kapila, Henry Sawires and Bryan Wells received Harrison Awards. Rob Cartotto and Fred Brenneman received the Tile Award for outstanding service to the Department. Andy Smith, Calvin Law, Frances Wright, Anna Gagliardi and Linda Last received the inaugural Cancer Quality Council of Ontario Awards for their outstanding work in knowledge translation directed toward improving outcome in colorectal cancer practice. David Houlden was appointed to the Editorial Board of the Journal of Clinical Monitoring and Computing.

The arthroplasty program of the Holland Centre, led by Jeff Gollish and Hans Kreder was recognized by the Toronto Central LHIN and the Ministry for improving efficiency by process redesign by developing a new model of care for hip and knee arthroplasty. A team of Sunnybrook surgeons (Michael Ford, Gideon Cohen, Joel Finkelstein, Lorraine Tremblay, Sharon Sharir and Andy Smith) together with their residents received the highest score on CBC’s Test the Nation’s IQ edging out the teams of Millionaires, Fitness Instructors, Mayors, Talk Jocks, Celebrities and Tattoo Artists.

Retirements and Sabbaticals
Dave Rowed retired from the Division of Neurosurgery after many years of distinguished service, having been recognized by promotion to Full Professor for his expertise in the management of cerebellopontine angle neoplasms. Massey Beveridge resigned as the Director of the Office of International Surgery, having worked indefatigably to develop an extensive network of vital international connections. Massey spent the year on sabbatical at the Labrador-Grenfell Integrated Health Authority. Sharon Sharir took up a position at the Humber River Regional Hospital. Joel Fish was on sabbatical in New Zealand where he had been asked to establish a national burn care system. Mitch Brown, Lavina Lickley and George Hiraki assumed positions at the Women’s College Hospital where John Semple was appointed Surgeon-in-Chief.

Conclusion
As the year finished, work began on the large and long-awaited M Wing expansion to patriate the Perinatology and Gynecology Strategic Program and markedly expand the Sunnybrook Research Institute. This sizeable project will open a new chapter in Sunnybrook’s history. An air of optimism prevailed with Surgery having a noticeably enhanced academic environment in the context of renewed institutional leadership. The future of Surgery at Sunnybrook seems bright and the Department is thankful for the opportunities on the horizon and the substantive role it has been asked to play within our Institution and by our University Department, our Faculty, the Toronto Central LHIN and the Province.
**DIVISION OF CARDIAC AND VASCULAR SURGERY**

Dr. G.T. Christakis – Professor  
Dr. G. Cohen – Assistant Professor  
Dr. S.E. Fremes – Professor (Division Head)  
Dr. B.S. Goldman – Professor  
Dr. D. Kucey – Assistant Professor  
Dr. R. Maggisano – Associate Professor

**Publications**


**Invited Visits to Other Hospitals/Universities**

Christakis GT: Contemporary Cardiac Care, Niagara-on-the-Lake, ON, September 2006. Aortic valve and root disease - When to operate/when to wait.

Christakis GT: 5 Chiefs’ Meeting, North York General Hospital (NYGH), Markham, ON, April 2007. Controversies in cardiac surgery.


Christakis GT: American Society of Thoracic Surgery (AATS), Washington, DC, May 2007. Does the stentless porcine valve provide benefit or excess morbidity?

Christakis GT: KMH Cardiology & Diagnostic Centres, Markham, ON, November 2006. Expediting access to heart surgery and improving patient care.


Cohen G: 8th International Dead Sea Symposium, Tel Aviv, Israel, October 2006. Minimally invasive maze, techniques and results.


Research and Investigations

Senior Investigator’s Name Appears in Italics

A randomized, double, blind, placebo-controlled, multi-center study to evaluate the cardioprotective effects of MC-1 in patients undergoing high-risk coronary artery bypass graft (CABG) surgery (MEND-CABG). Fremes SE with multi-center investigators: Medicure International Inc. ($160,000 2006 - 2007.)


FREEDOM Trial - Future revascularization evaluation in patients with diabetes mellitus: Optimal management of multivessel disease. Fuster V, Fremes SE (Site PI) and the FREEDOM Study Investigators: National Heart, Lung and Blood Institute. ($162,000 2006 - 2011.)


DIVISION OF GENERAL SURGERY

Dr. F.D. Brenneman – Associate Professor
Dr. P.T.Y. Chu – Assistant Professor
Dr. N.G. Coburn – Assistant Professor
Dr. A.R. Gagliardi – Assistant Professor
Dr. S.S. Hanna – Associate Professor
Dr. G. Hiraki – Assistant Professor
Dr. C.M.B. Holloway – Assistant Professor
Dr. C.H.L. Law – Assistant Professor
Dr. L. Lickley – Professor
Dr. M.L. Quan – Assistant Professor
Dr. S. Rizoli – Assistant Professor
Dr. T.M. Ross – Associate Professor
Dr. A.J. Smith – Associate Professor (Division Head)
Dr. H.C. Tien – Assistant Professor
Dr. L. Tremblay – Assistant Professor
Dr. F. Wright – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Brenneman FD: 8th Annual Trauma Nursing Conference 2007 (Course Co-Director), Sunnybrook Health Sciences Centre, Toronto, ON, February 2007. (1) Penetrating trauma, (2) Lessons learned.


Brenneman FD: Hotel Dieu Hospital, Windsor, ON, November 2006. Operative techniques of laparoscopic ventral hernia repair.

Brenneman FD: Joseph Brant Memorial Hospital, Burlington, ON, July 2006. Operative techniques of laparoscopic ventral hernia repair.

Brenneman FD: Kingston General Hospital, Kingston, ON, November 2006. Operative techniques of laparoscopic ventral hernia repair.

Brenneman FD: St. Martha’s Hospital, Antigonish, NS, June 2007. OR teaching - advanced laparoscopic ventral hernia repair techniques.

Brenneman FD: Sudbury Trauma Conference, Sudbury, ON, November 2006. Penetrating Trauma.


Gagliardi AR: Improved Clinical Effectiveness Through Behavioural Research Group, Ottawa Health Research Institute, Ottawa, ON, October 2006. Exploring organizational factors influencing the organization and delivery of cancer surgery.


Law CHL: Student Surgical Skills Development (S3D), Toronto, ON, January 2007. A career in surgical oncology: Perspectives and outlooks.

Law CHL: Canadian Association of General Surgery (CAGS), Calgary, ON, September 2006. An approach to a patient with suspected liver metastases.


Law CHL: Trillium Health Sciences Centre, Mississauga, ON, February 2007. Rare tumours of the gastrointestinal tract.


Tien HC: Tactical and Rescue Unit, Peel Regional Police, Brampton, ON, September 2006. Blast injuries.

Tien HC: Toronto International Symposium on Acute Care, Toronto, ON, October 2006. Lessons learned from Afghanistan: Multidrug resistant acinetobacter.

Tien HC: Blast and Improvised Explosive Devices (IED) Health Effects and Injury Mitigation, Defence Research and Development Canada (DRDC), Toronto, ON, November 2006. The Canadian Forces Health Services approach to blast injuries.


Tien HC: Tactical and Rescue Unit, Peel Regional Police, Brampton, ON, September 2006. Wound ballistics.

Tremblay L: Annual Meeting, Trauma Association of Canada (TAC), Ottawa, ON, May 2007. Temporary abdominal wall closure - What is the best method?


Wright F: Royal Victoria Hospital, Barrie, ON, May 2007. Mentoring sentinel node biopsy for breast cancer.

Wright F: South Muskoka Memorial Hospital, Bracebridge, ON, June 2007. Mentoring sentinel node biopsy for breast cancer and melanoma surgery.

Wright F: York Central Hospital, Toronto, ON, February 2007. Multidisciplinary cancer conferences - Why bother?

Wright F: Scarborough Hospital CME Rounds, Toronto, ON, October 2006. Sentinel node biopsy and breast cancer.

Wright F: The Georgian Bay Oncology Group, Barrie, ON, December 2006. Sentinel node biopsy in breast cancer and melanoma.

Wright F: North Western Ontario Surgical Oncology Network, Dryden, ON, June 2007. Sentinel node for breast cancer.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Evaluating the quality of sentinel node biopsy practice in Ontario. Quan ML, Gagliardi A, Wright FC, McCready DR, Urbach D: Canadian Breast Cancer Foundation. ($284,745 2007 - 2009.)

Exploring the cancer-related information needs of general surgeons. Gagliardi A, Smith AJ, Wright FC: Grant Miller Cancer Research Grant, Faculty of Medicine, University of Toronto. ($20,000 2006 - 2011.)


Factors influencing lymph node staging practice in colorectal cancer. Gagliardi AR, Wright FC, Smith AJ: Dean's Fund, New Staff Grant, Faculty of Medicine, University of Toronto. ($9,797 2006 - 2009.)


Multidisciplinary cancer conferences: Exploring obstacles and facilitators to their establishment and function. Lookhong N, Wright FC, Gagliardi AR, Paszat L: Colon Cancer Canada. ($5,000 2007 - 2008.)

Multidisciplinary consensus on performance measures for sentinel lymph node biopsy. Quan ML, Gagliardi AR, Wright FC: Canadian Breast Cancer Research Alliance. ($19,813 2006 - 2007.)

Ontario Cancer Surgery Survey. Gagliardi AR, Wright FC, Lookhong N, Holloway C, Urbach D: Cancer Care Ontario. ($34,500 2007 - 2008.)

Population-based assessment of lymphadenectomy during radical cystectomy for bladder cancer in Ontario. Sharir S, Law CHL: Dean's Fund, Faculty of Medicine, University of Toronto. ($10,000 2006 - 2011.)

Practice variation and surgical outcomes in the treatment of locally advanced colorectal cancer. Law CHL, Govindarajan A: Canadian Cancer Society Clinical Research Fellowship, National Cancer Institute of Canada. ($43,094 2006 - 2007.)


Priorities for knowledge translation research in colorectal cancer. Gagliardi A, Wright F, Smith A: National Cancer Institute of Canada. ($15,000 2006 - 2007.)

Priorities for knowledge translation research in colorectal cancer. Gagliardi AR, Wright FC, Smith AJ: Canadian Institutes of Health Research, Institute of Cancer Research. ($15,000 2006 - 2007.)

Psychosocial functioning in women with mastectomy with or without breast reconstruction. Metcalfe KA, Narod S, Semple J, Holloway C: Canadian Breast Cancer Foundation Ontario Chapter. ($183,168 2004 - 2007.)


Surgical care of gastric cancer patients in Ontario: A population-based study. Coburn NG, Law CHL, Swallow CJ, Rabeneck L: University of Toronto, Connaught Grant Funds. ($23,000 2007 - 2008.)


The role of thromboelastography in minimizing blood transfusions in trauma patients. Tien H, Rizoli S: *Department of National Defence, Canada.* ($185,000 2006 - 2007.)

The role of thromboelastography in trauma. Rizoli S, Tien H, Tremblay L, Reis M: *Defence Research and Development Canada (DRDC).* ($244,388 2006 - 2008.)

Trauma care at a Role 3 Canadian Forces Hospital in Afghanistan. Tien H, Redelmeier D, Brenneman F, Shek P: *Department of National Defence, Canada.* ($40,000 2006.)


**Honours Received**


DIVISION OF NEUROSURGERY

Dr. M. Fazl – Assistant Professor
Dr. D.A. Houlden – Assistant Professor
Dr. F. Pirouzmand – Assistant Professor
Dr. D.W. Rowed – Professor
Dr. M.L. Schwartz – Professor (Division Head)

Publications


Invited Visits to Other Hospitals/Universities

Houlden DA: Clinical Neuroscience and Neurosurgery, Foothills HSC, Calgary, AB, April 2007. (1) Clinical neurophysiology - Basic and intraoperative applications, (2) Intraoperative neuromonitoring - Selected Cases, (3) What I Learned on my trip from the ICU to the OR and back again.


Schwartz ML: Societe de Neurochirurgie de Langue Francaise, Punta Cana, Dominican Republic, June 2007. Predire les resultats de la radiochirurgie pour les MAV.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. T.S. Axelrod – Associate Professor
Dr. H.U. Cameron – Associate Professor
Dr. J.C. Cameron – Assistant Professor
Dr. G.R. Fernie – Professor
Dr. J.A. Finkelstein – Associate Professor
Dr. M.H. Ford – Assistant Professor
Dr. J.D. Golish – Assistant Professor
Dr. H. Hall – Professor
Dr. R.M. Holtby – Assistant Professor
Dr. H.J. Kreder – Associate Professor (Division Head)
Dr. B.E. Maki – Professor
Dr. B.W. Malcolm – Assistant Professor
Dr. P.H. Marks – Associate Professor
Dr. J.J. Murnaghan – Assistant Professor
Dr. R.R. Richards – Professor
Dr. J. Schatzker – Professor
Dr. D.G.S. Stephen – Associate Professor
Dr. M. Tile – Professor
Dr. V. Wadey – Assistant Professor
Dr. I. Weller – Assistant Professor
Dr. C. Whyne – Assistant Professor
Dr. C.S. Wright – Assistant Professor
Dr. A.J.M. Yee – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

Axelrod TS: Association for Osteosynthesis - AO North America Education, Toronto, ON, November 2006. Basic Principles and Techniques of Operative Fracture Management Course. (1) Evaluation of course, (2) Discussion groups. (Moderator), (3) Planning hands on workshop lab, (4) Pre-operative planning lecture,


Axelrod TS: Association for Osteosynthesis/Association for the Study of Internal Fixation (AO ASIF) and Sunnybrook Health Science Center, Toronto, ON, February 2007. Internal Fixation of Fractures; Course for Operating Theatre Personal: (1) Lecture: Fractures of the forearm and wrist, (2) Lecture: The history of the AO.


Cameron HU: 19th Annual Symposium of the International Society for Technology in Arthroplasty, New York, NY, October 2006. (1) Defining the role of modular stem design in total hip arthroplasty, (2) Long stems in primary total hip replacement, (3) Long term results of hip replacement in CDH.


Cameron HU: Knee Revision Meeting, Minneapolis, MN, August 2006. Stems in knee revision surgery.


Fernie GR: Discussant, 15th Annual Labelle Lectureship, Lehoux P Technology, Hamilton, ON, October 2006. Innovation in health Care: Who’s calling the shots?

Fernie GR: 35th Annual Scientific and Educational Meeting, Canadian Association of Gerontology, Quebec City, PQ, October 2006. Innovative rehabilitation research for people in challenging environments. Special Joint CAG/Canadian Institutes of Health Research Institute on Aging Symposium 1 on Innovative Approaches to Optimize Balance and Mobility in Older Adults.


Finkelstein JA: Association for Osteosynthesis (AO) Degenerative Spinal Disorders Symposium, Montreal, PQ, July 2006. Co-Chair.


Holtby RM: Canadian Orthopaedic Association (COA) Annual Meeting, Halifax, NS, June 2007. (1) A descriptive study of failed rotator cuff surgeries following work-related injuries, (2) Difference in outcome between bursal and articular partial thickness rotator cuff tears: A one-year follow-up results, (3) Impact of rotator cuff and superior labral pathology on shoulder biomechanics: (Examination under anaesthesia.)

Holtby RM: Canadian Orthopaedic Nurses Association (CONA) 23rd Annual Meeting, Spiral Banquet and Conference Center, Toronto, ON, October 2006. Shoulder surgery. All you ever wanted to know.


Kreder HJ: Association for Osteosynthesis (AO) International, Davos, Switzerland, December 2006. (1) Antegrade femoral nailing: The piriformis start point, 2) Biological and mechanical enhancement in fracture treatment. (Session Moderator), (3) Indications for operative and non-operative treatment of mid and distal humeral fractures.


Kreder HJ: Calgary Trauma Retreat, Calgary, AB, May 2007. Developing the best orthopaedic trauma care system for patients, providers and payors.


Kreder HJ: North York Orthopaedic Surgery Group Continuing Medical Education Meeting, Toronto, ON, October 2006. Proximal femur fractures and periprosthetic fractures: Techniques, trick and tips of management.

Kreder HJ: Canadian Orthopaedic Association, Halifax, NS, June 2007. Trauma specialty half day tips and tricks: How I fix a distal femur fracture.

Maki BE: Invited Participant, Canada Meets UK on Design and Technology for Quality of Life in Old Age, CIHR Institute on Aging / UK Strategic Promotion of Aging Research Capacity (SPARC), Toronto, ON, June 2007.


Maki BE: Organized and Chaired Symposium, Canadian Institutes of Health Research (CIHR), Institute on Aging/Canadian Association on Gerontology, Quebec, PQ, October 2006. Joint CIHR/CAG symposium on balance and mobility research.

Maki BE: Invited Presentation (presented on my behalf by Perry S), 5th World Congress on Biomechanics, Munich, Germany, July 2006. New interventions to promote more effective change-in-support balance.

Maki BE: Invited Presentation, Annual Conference of the Canadian Association on Gerontology, Quebec, PQ, October 2006. Research to optimize effectiveness of handrails.


Marks PH: Smith and Nephew, 21st Annual American Resident Research Competition and Conference, Memphis, TN, August 2006. The ACL risk equation: Does ACL reconstruction prevent articular degeneration?


Stephen DGS: Lecturer, 8th Annual Chicago Trauma Symposium, Chicago, IL, July 2006.


Stephen DGS: AO Advanced Course, Toronto, ON, November 2006. (1) Introduction to course, (2) Outcome of calcaneus.


Stephen DGS: Basic Principles and Techniques of Operative Fracture Management., Chicago, IL, October 2006. (1) Principles overview. (Moderator), (2) Lab instructor, (3) Discussion groups.


Whyne C: CIRQUE, Queen’s University, Kingston, ON, February 2007. Engineering outside the box.

Yee AJM: Conference Symposia, Canadian Spine Society, Mont-Tremblanc, PQ, March 2007. Bone morphogenic proteins and bone graft extenders: What is their role?


Yee AJM: 11th World Congress on Advances in Oncology and 9th International Symposium on Molecular Medicine, Crete, Greece, October 2006. Ganoderma oil inhibits tumor cell proliferation and induces tumor cell death.

Research and Investigations

Senior Investigator’s Name Appears in Italics


Compensatory stepping in response to postural perturbation in a group of working-age, unilateral, transtibial amputees. Maki BE, Pauley T, Devlin M: Workplace Safety and Insurance Board (Solutions for Workplace Change Program.) ($18,020 2004 - 2006.)

Control of balance reactions in the complex environments of daily life: Effects of age-related changes in visual processing and the development of novel approaches for fall prevention. Maki BE, McIlroy WE, Fernie GR, Pratt J: Canadian Institutes of Health Research. ($782,042 2004 - 2009.)

Development and testing of a perturbation-based balance training program to improve balance reactions and prevent falls in older adults. Maki BE, Mansfield A: Ontario Neurotrauma Foundation. ($7,000 2007.)


Health care technology and place - Research training program. Coyte PC, McKeever P, Fernie GR et al: Canadian Institutes of Health Research. ($1,980,000 2002 - 2007.)


Labs and workspaces for scientists and graduate students engaged in the iDAPT research program at Toronto Rehabilitation Institute (tentatively approved: pending final administrative approval). Fernie GR, Boutilier C, Bradley D, Colangelo A, Cott C, Davis A, Maki BE, McIlroy WE, McKeever P, Naglie G: Canadian Foundation for Innovation. ($17,631,726 2004 - 2008.)

Large aggregating proteoglycans and therapeutic strategies in intervertebral disc cell metabolism. Yee AJ, Yang B, Whyne C: Zimmer Grant. ($8,300 2006 - 2007.)


Modeling thin bone structures of the human skeleton. Whyne C: Natural Sciences and Engineering Research Council. ($165,000 2006 - 2010.)


Rehabilitation Engineering Research Center on universal design and the built environment at Buffalo. Steinfeld E: National Institute on Disability and Rehabilitation Research. ($5,538,000 2005 - 2009.)

Risk factors and indicators that predict the progression of osteoarthritis after knee injury. Marks PH, Hurtig M, White L, Weller I: Canadian Institutes of Health Research. ($300,000 2004 - 2009.)
Role of spatial memory in the control of grasping reactions. *Maki BE, Scovil S: Ontario Neurotrauma Foundation (Summer Internship Program).* ($10,000 2006.)

Safe activities following elective total hip replacement (SafeT). *Weller IM, Corey PN, Gignac MA, Gollish JD, Hawker GA, Kennedy DM, Kreder HJ, MacDonald SJ: Canadian Institutes of Health Research.* ($930,345 2007.)

Safe independent powered wheelchair mobility for residents in long term care institutions with complex physical and cognitive impairments. *Fernie GR, Carswell A, Cott C, Herrmann N, Jutai J, Kiss A: Canadian Institutes of Health Research.* ($195,970 2005 - 2007.)


The impact of hip and knee replacements and other new techniques on physician requirements for orthopaedic surgery. *Chan B, Williams J, Hawker G, Kreder HJ, Buske L, Rorabeck CH: Canadian Health Services Research Foundation.* ($161,000 2002 - 2006.)

Tumor invasiveness and the role of versican in breast carcinoma metastasis to bone. *Yee AJ, Yang B, Finkelstein JA: Zimmer Grant.* ($10,000 2005 - 2006.)

Visual processing and postural reactions: Development and pilot testing of a visual training program to improve balance control and prevent falls in older adults. *Maki BE, McKay S: Ontario Neurotrauma Foundation.* ($10,000 2007.)

All-Arthroscopic or mini-open repair of the rotator cuff. *Holty RM: Canadian Institutes of Health Research.* ($609,000 2007.)

**Honours Received**

**Axelrod TS:** Edwin G. Bovill, Jr. MD Award to the outstanding scientific paper from each Annual Meeting of the Orthopaedic Trauma Association for A Multicenter Prospective Randomized Controlled Trial of Open Reduction and Internal Fixation vs Total Elbow Arthroplasty for Displaced Intra-articular Distal Hume. February 2007.


**Kreder HJ:** President’s Award, Canadian Orthopaedic Association for outstanding contribution to orthopaedics in Canada. June 2007.

**Stephen DGS:** Teaching Award - Best Table Instructor - AO Resident Pelvic and Acetabular Course. October 2006.
DIVISION OF PLASTIC SURGERY

Dr. O. Antonyshyn – Associate Professor
Dr. P. Binhammer – Assistant Professor (Division Head)
Dr. R.C. Cartotto – Associate Professor
Dr. J. Fialkov – Assistant Professor
Dr. J. Fish – Associate Professor
Dr. M. Gomez – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Cartotto RC: 1st Annual Educational Symposium of the Canadian Interest Group. American Burn Association Annual Meeting, San Diego, CA, March 2007. Skin substitutes for the burn ptient. (Course Director and Speaker.)

Research and Investigations

Senior Investigator’s Name Appears in Italics


Honours Received

Cartotto RC: The Marvin Tile Award for Distinguished Service to the Department, the Hospital, and the University of Toronto.
Sunnybrook Health Sciences Centre, Department of Surgery. June 2007.
DIVISION OF UROLOGY

Dr. L.K. Carr – Assistant Professor
Dr. S. Herschorn – Professor
Dr. L.H. Klotz – Professor (Division Head)
Dr. R.T. Kodama – Associate Professor
Dr. R.K. Nam – Assistant Professor
Dr. S. Sharir – Assistant Professor
Dr. V. Venkateswaran – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities


Herschorn S: Pfizer Sponsored Symposium, Berlin, Germany, March 2007. Co-Chair: Male Overactive Bladder (OAB), Speaker Training Meeting: (1) Antimuscarinic efficacy in the treatment of Male OAB, (2) Frequently asked questions.

Herschorn S: International Continence Society, Christchurch, NZ, November 2006. Satellite Symposium on The Management of Overactive Bladder (OAB) Symptoms in Men with Lower Urinary Tract Symptoms (LUTS), IMPACT on quality of life, can we successfully treat men with OAB symptoms?


Herschorn S: Sudbury Urology Forum, Sudbury, ON, June 2007. Treating Lower Urinary Tract Symptoms (LUTS) - What's on the horizon?


Nam RK: From Diagnosis to Metastasis, Prostate Cancer Education Forum, Canadian Urological Association, Quebec, PQ, June 2007.
Nam RK: Societe Internationale d’Urologie (SIU), Genitourinary (GU) Oncology Conference, Cape Town, South Africa, November 2006. Use of nomograms to determine prostate biopsy.

Venkateswaran V: Brampton Chapters - Us Too - Prostate Cancer Support Group, Canadian Prostate Cancer Network, Brampton, ON, June 2007. Opportunities for prevention & recurrence of prostate cancer: Relevance of dietary intervention.

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*


CORAL study (Fosamix vs Placebo in patients initiating therapy with LHRH analogues). Investigator initiated multicentre trial, initiated by L. Klotz, with funds provided to CURC by Abbott Laboratories Canada. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium. ($800,000 2005 - 2008.)


CURC/CUOG (Canadian Urologic Oncology Group) Casodex dose intensification study (CHICS). Investigator initiated study by L. Klotz. Funds provided to CURC by Astra Zeneca Canada. Funds include per patient reimbursement ($450,000) and project management costs ($450,000). Klotz L: Canadian Urology Research Consortium. ($900,000 2005 - 2007.)


Dutesteride vs Placebo in patients initiating intermittent androgen deprivation. Investigator initiated multicentre trial, initiated by L. Klotz, with funds provided to CURC by Glaxo Smith Kline US. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium. ($800,000 2006 - 2009.)


Individual risk assessment for prostate cancer using risk factors, tumour markers and new biomarkers. Nam RK, Narod S: Canadian Institutes of Health Research. ($708,000 2006 - 2009.)


Ontario Cancer Biomarker Network. Diamantis E, Klotz L (Leader, clinical research division): Ontario Cancer Research Network. ($6,000,000 2005 - 2008.)


Randomized trial of sildenafil for mild erectile dysfunction. Herschorn S: Pfizer Canada. ($30,000 2006 - 2007.)
Randomized trial of the effects of cholecalciferol on prostate cancer associated lesions and on cholecalciferol metabolites in prostate tissue. Vieth R, Klotz L, Van der Kwast T: National Cancer Institute of Canada. ($263,000 2006 - 2008.)

Select trial (vitamin E and selenium for prevention of prostate cancer: A randomized trial. Funded at $170,000,000. over 10 years. Coltman C, Many co-investigators with the South Western Oncology Group including Klotz LH: National Institute of Health. ($170 1999 - 2009.)

VECTOR: A randomized double-blind study to assess the safety and efficacy of solifenacin succinate (Vesicare) in comparison to oxybutynin for overactive bladder patients. Herschorn S: Astellas Canada. ($15,000 2007 - 2008.)

**Honours Received**

**Herschorn S:** W.T. Aikins Faculty Teaching Award for Excellence in Undergraduate Teaching for individual teaching performance (small group). May 2007.

**Klotz LH:** 2006 Richard Lafferty Excellence in Writing Award from the Ontario Society of Medical Technologists. November 2006.

**Klotz LH:** Member, American Association of Genitourinary Surgeons. May 2007.

**Nam RK:** Faculty Postgraduate Teaching Award Surgical, Division of Urology, University of Toronto. June 2007.

**Nam RK:** Peter’s Boyd Academy Clinical Teaching Supervision Award, Faculty of Medicine, University of Toronto. June 2007.

Introduction

The Surgical Department of the Toronto East General Hospital has 19 active surgeons including four urologists, six orthopaedic surgeons, six general surgeons, two thoracic surgeons and four plastic surgeons.

General/Thoracic Surgery

Paul Bernick received the John Fowler Family Practice Resident Teaching Award this year and is in the outstanding category at the University level of teaching. Jamie Cyriac has been involved with ASCM teaching for the Berris Wightman Academy. Carmine Simone is our new Head of the Division of Critical Care. Carmine continues to move our ICU in a direction that the Ministry is using with initiatives for other intensive care units in the use of our preprinted ventilation and patient transfer orders province wide. We are fully active in the 24/7 availability of the Outreach Program. Our Patient Simulator initiative has begun with the simulator located in the Emergency Department. This multidisciplinary teaching device will continue to be developed this year. Our aim is to achieve full accreditation from the University of Toronto Critical Care Department for our Toronto East General site. Dr. Bob MacKenzie and Dr. Brett Beber are working together with Diagnostic Imaging, Oncology, and Family Practice to develop a Time to Treat Breast Model for TEGH. We hope to have this program in place by the Fall. Dr. MacKenzie is the surgical representative on our Medical Educational Committee. The Division of General Surgery has also been a site for the IMG Certification Program successfully working with a general surgeon from Mexico.

Urology

Dr. Peter Vlaovic our new urologist graduated from the Urology Program at the University of Toronto and spent several rotations at TEGH. Peter brings skills of laparoscopic prostatectomy and robotic experience from a fellowship in California.

Orthopaedics

Bill Kraemer is the Postgraduate Program Director for Orthopedics and was promoted to Assistant Professor this year. Bill is also in the outstanding category at the University level of TES.

Plastic Surgery

Laura Tate was promoted to Assistant Professor. Dr. Brett Beber will be involved in ASCM teaching next year. Plastic surgery residents will be rotating through the TEGH for 2 months in 2008 in an effort to increase the community experience. Dr. Tate was involved with a DOCH project this year.
DIVISION OF GENERAL SURGERY
Dr. P. Bernick – Assistant Professor
Dr. J. Cyriac – Lecturer
Dr. T. Gilas – Assistant Professor
Dr. R. Mackenzie – Assistant Professor
Dr. R. Zeldin – Assistant Professor (Division Head)

Honours Received

DIVISION OF PLASTIC SURGERY
Dr. B. Beber – Lecturer
Dr. M. Dupere
Dr. A. Kesarwani
Dr. L. Tate – Assistant Professor (Division Head)

Invited Visits to Other Hospitals/Universities
DIVISION OF ORTHOPAEDIC SURGERY

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

Publications


Invited Visits to Other Hospitals/Universities

Maistrelli GL: Surgical Advances in Orthopaedics, CME Course, University of Western Ontario, Collingwood, ON, September 2006. (1) Simultaneous bilateral vs. staged total knees, (2) Varus balancing in total knees, (3) Controversies in total hips: Big heads - The wrong direction.


Wong P: Guest Speaker, Annual Meeting of The Journal Club of Chinatown Physicians, Markham, ON, July 2006. Sports medicine.
DIVISION OF THORACIC SURGERY

Dr. C. Simone – Lecturer
Dr. R. Zeldin – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

Simone C: Presenter, Quality Healthcare Now and “Researcher-on-Call” Teleconference of the Canadian Health Services Research Foundation (CHSRF), Toronto, ON, January 2007. Anatomy of a successful ICU team.

Simone C: Guest Speaker, 33rd Annual Toronto Thoracic Refresher Course, Toronto, ON, June 2007. Benign esophageal tumours: Resect or observe?

Simone C: Presenter, Fourth Annual Toronto Radiation Medicine Conference, King City, ON, April 2007. Collaborating to strengthen thoracic oncology services (with Dr M. Dahele.)

Simone C: Presenter, Lung Cancer Canada and Columbus Centre, Toronto, ON, May 2007. Conoscere il cancro del polmone (per vincerlo): Understanding lung cancer (diagnosis, treatment, survivorship.)

Simone C: Presenter, Leadership Day, Partnership for After School Education (PASE), Toronto, ON, April 2007. Interprofessional patient care success stories: ICU.

Simone C: Guest Lecturer, Exploring a New Era in Critical Care Design, Delivery and Evaluation (Ontario’s Critical Care Strategy - Year One Results), Ontario Hospital Association (OHA), Toronto, ON, April 2007. Leadership and physician engagement in the ICU.


DIVISION OF UROLOGY

Dr. R. MacMillan – Assistant Professor
Dr. R. Singal – Lecturer
Dr. J. Kell
Dr. P. Vlaovic
The principal UHN corporate objective of patient centered care was embraced, and new organizational changes were put in place. From a UHN standpoint, all three hospitals came under corporate leadership, contributing to a more seamless administration of Surgical Services. The programmatic changes involved recognition of “Surgical and Critical Care” as a separate program grouping under the leadership of Bryce Taylor, and Surgical Services continued to play important roles in the other programs, i.e. Heart and Circulation, Oncology and Blood Disorders, Transplantation, The Krembil Neuroscience Program and Musculoskeletal Health and Arthritis. In addition, our multidisciplinary programs including Spine, Hand, and Head and Neck thrived in both clinical and academic domains.

Surgery also had significant influence on the five major corporate initiatives at UHN, specifically the I 3 Program (intervention, imaging, innovation), the OR Transformation Project, the Guided Therapeutics Program (GTx), Palliative Care, and the EDGIM Project (Emergency/General Internal Medicine). In addition, plans were put in place for the development of the multipurpose operating room (MPOR), and the Guided Therapeutics OR (GTxOR).

Through the Spring of 2007, a new surgical planning process was initiated as a result of the recent changes in administrative structure and the rapidity of change in the surgical world. The “GATES” process (Growing Academically, Technologically, Efficiently and Safely) proved to be an extremely effective way that each division/department in Surgical Services could express their individual visions and future plans. It is hoped that by the Fall of 2007, a comprehensive planning document will be articulated and active in guiding further developments.

New recruits in the 2006-2007 academic year included Allan Okrainec (General Surgery), Erin Kennedy (General Surgery), George Oreopoulos (Vascular Surgery), Doug Wooster (Vascular Surgery), and Khalid Syed (Orthopedic Surgery).

Michael Borger was promoted to Associate Professor and Michael Johnston to Full Professor as of July 2006. For July 2007, Joan Lipa was promoted to Associate Professor, and Barry Rubin, Tom Lindsay, Michael Tymianski and Neil Fleshner were all promoted to Full Professor.

Significant departures from our Department of Surgery included Peter Neligan and Michael Johnston who left to pursue major surgical positions in Seattle and Halifax respectively. Recruitment efforts have been extremely active in Plastic Surgery, Orthopedic Surgery, General Surgery, Neurosurgery, and Vascular Surgery, all of whom will announce new recruits in the Summer and Fall of 2007.

UHN surgeons were extremely successful in grant capture this year, and to name just two, Michael Fehlings was a co-investigator on a $30 million federal grant from the National Spinal Cord Injury Network, and Richard Wiesel and colleagues were awarded a CFI New Initiatives Fund grant of $7.2 million for their Regenerative Medicine Project. A large number of personal awards were won by UHN surgeons, including Viv Rao as one of Canada’s “top 40 under 40” (and also the winner of the George Armstrong Peters Prize), and Andres Lozano, who was designated a “highly cited scientific author” by Thompson’s Scientific. Michael Fehlings was the 2007 winner of the Department’s Lister Prize.
Numerous teaching awards were also given to UHN surgeons, specifically R.J. Cusimano and Linda Dvali for Wightman-Berris Academy Awards, Raj Rampersaud for the 2007 Ross Fleming Teaching Award and Andrew Pierre for the Surgical Skills Centre Distinguished Educator Award.

Two legendary UHN surgeons were presented with the prestigious “Global Impact Awards” for 2007. Drs. Griff Pearson and Joel Cooper received these honors at a special event in June 2007 recognizing their contributions to the development of lung transplantation.

Chris Feindel became the inaugural chairholder of the Antonio and Helga DeGasperis Chair in Clinical Trials and Outcomes Research, bringing the total of endowed chairs in the UHN Department of Surgery to twenty.
DIVISION OF CARDIAC SURGERY

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

Publications

Alghamdi AA, Davis AM, Brister SJ, Coreg PN, Logan AG: Development and validation of transfusion risk understanding scoring tool (TRUST) to stratify cardiac surgery patients according to their blood transfusion need. Transfusion: July 2006: 46(7): pp 1120-1129.


Invited Visits to Other Hospitals/Universities

Cusimano RJ: Xinxiang Medical College, Xinxiang, Henan Province, China, November 2006. Teleconference: Live surgical demonstration of OPCAB.

Cusimano RJ: Zhongshan Hospital, Xiamen University, Xiamen, Fujian Province, China, November 2006. Teleconference: Live surgical demonstration of OPCAB.

David TE: Contemporary Questions in Congenital Heart Disease, 3rd Annual Toronto Symposium, Toronto, ON, June 2007. “Doctor, when should I have surgery?”

David TE: Florida Valve Symposium: Tampa Bay Heart Institute, St. Petersburg, FL, March 2007. (1) Aortic valve sparing operations, (2) Pulmonary autografts, aortic homografts and stentless xenografts for aortic valve replacement.

David TE: Chilean Congress of Cardiology, Vina del Mar, Chile, November 2006. (1) Functional anatomy of the mitral valve and principles of repair, (2) Functional anatomy of the aortic valve and principles of repair, (3) Surgery of active infective endocarditis, (4) Surgical management of acute aortic dissections.


David TE: Harvard Medical School, Department of Continuing Medical Education, Boston, MA, October 2006. Aortic valve repair: The surgical/echocardiographer inter-action.


David TE: Keynote Speaker, 5th Annual Current Trends in Cardiothoracic Surgery Conference, Baylor College of Medicine, Houston, TX, June 2007. When is aortic valve repair better than replacement?

Feindel CM: Canadian Cardiovascular Society (Canadian Society of Cardiac Surgeons), Vancouver, BC, October 2006. Aortic dissections and acute aortic syndromes.

Feindel CM: Isala Klinieken (Hospital), The Netherlands, June 2007. Aortic valve sparing operations.


Li R-K: Invited Speaker, Stem Cell Therapy for the Failing Heart, Bangkok, Thailand, December 2006. Angiogenesis induced by cell transplantation/Quantitative analysis of survival of transplanted cells.

Li R-K: XIX World Congress of the International Society for Heart Research, Bologna, Italy, June 2007. Cardiac lin-kit+ stem cells mediate cardiac repair via enhanced angiogenesis.

Li R-K: Invited Speaker, 18th International Meeting, Centre Cardiothoracique de Monaco, Monaco Cedex, Monaco, November 2006. Cardiac regeneration by cell transplantation.

Li R-K: Invited Speaker, Shanghai International Symposium on Cardiology joined with Yangtze International Cardiovascular Congress 2006, Shanghai, China, November 2006. Cardiac regeneration by cell transplantation.

Li R-K: Invited Speaker, International Heart Forum Beijing 2006, Beijing, China, August 2006. Cell engineered cardiac tissue to repair congenital heart defects.

Li R-K: Heart Failure Summit, Toronto, ON, June 2007. Cell therapy to restore cardiac function: Possible mechanisms.


Li R-K: Regenerative Medicine Day in Toronto 2007: Exploring the Big Questions in Regenerative Medicine, Toronto, ON, June 2007. Regenerative approaches: Are biomaterials necessary?


Rao V: Dharbanga Medical College Symposium, Providence, RI, July 2006. Surgical therapy for heart failure.

Rao V: Madhya Pradesh Medical Colleges Alumni Reunion, Toronto ON, August 2006. Surgical therapy for heart failure.


Scully HE: Ottawa Women’s Canadian Club, Ottawa, ON, September 2006. Canada’s doctors - How many and where do they come from?

Scully HE: 2006 Fall Invitational Conference of the Association of Canadian Academic Health Organizations (ACAHO), Ottawa, ON, November 2006. Does the “rise” of the private sector lead to the “demise” of academic medicine in Canada?


Weisel RD: Bangkok Heart Institute Stem Cell Therapy Symposium, Bangkok, Thailand, December 2006. (1) Cardiac regeneration by cell transplantation: From bench to bedside, (2) Embryonic stem cells, (3) Tissue engineering: Creating a new heart.

Weisel RD: International Heart Forum Beijing 2006, Beijing, China, August 2006. Cardiac regeneration: The future of cardiac surgery.


Weisel RD: Canadian Association of Critical Care Nurses Conference, Toronto, ON, April 2007. Genetic treatment of cardiac conditions.

Weisel RD: Trainee Day, Canadian Cardiovascular Society, Vancouver, BC, October 2006. How to make the cut as a cardiovascular trainee.

Weisel RD: American Heart Association on Basic Cardiovascular Sciences, Keystone, CO, August 2006. Overview of stem cells in cardiac surgery.

Weisel RD: Society of Cardiac Surgeons and Cardiac Bioassist Association, Pamplona, Spain, June 2007. Rebuilding the heart: New horizons for cardiac surgeons.

Weisel RD: William W.L. Glenn Lecture, American Heart Association, Chicago, IL, November 2006. (1) Rebuilding the heart: New horizons for cardiac surgeons, (2) Will stem cells be the answer for the treatment of all cardiac disease?

Weisel RD: Bethesda North Hospital, Bethesda, MD, May 2007. Stem cells and cardiac regeneration: How close are we?


Yau TM: Cardiovascular Intensive Care Nurses, Toronto General Hospital, Toronto, ON, November 2006. Why do we use the valves we do?

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*

Autologous tissue-engineered grafts for congenital heart surgery. *Li RK*: Canadian Institutes of Health Research. ($647,655 2003 - 2008.)

Cardiac regeneration by cell transplantation. *Weisel RD*, Fazel S: Heart and Stroke Foundation. ($69,424 2006 - 2007.)


Enhancing endogenous repair by cell therapy. *Weisel RD*, Fazel S: Heart and Stroke Foundation. ($68,192 2006 - 2007.)


Functionality of resistant starch and bioactive peptides in preventing chronic diseases and promoting gut functions in studies with the pig model. *Fan MZ*, Liu Q, Mine Y, Yada R, Bakovic M, Li RK, Hellerstein M: Ontario Ministry of Agriculture and Food/University of Guelph Food Research Program. ($600,000 2004 - 2008.)


Inflammation, infection, trauma and repair cluster - Canada Research Chair in Cardiac Regeneration. *Li RK*: Canadian Institutes of Health Research. ($1,400,000 2006 - 2014.)


Polyarginine treated vein grafts (PATENT). *Brister SJ*, Ralph-Edwards RE, Yau T: Lumen Therapeutics, LLC. ($700,000 2005 - 2008.)

Regenerative Medicine project (REMED). *Rao V*, Weisel R: Canada Foundation for Innovation. ($7,000,000 2007.)

Restoration of cardiac function: Cellular regeneration and matrix reconstruction. Li RK: Heart and Stroke Foundation of Ontario. ($439,750 2006 - 2011.)


The interplay of recruited stem cells and the matrix after myocardial infarction: Shifting the balance toward repair. Li RK, Fazel S: Canadian Institutes of Health Research. ($738,073 2004 - 2009.)


Transplant vasculopathy: The role of endothelium. Rao V: Canadian Institutes of Health Research. ($50,000 2006 - 2007.)

Vasculogenesis induced by cell transplantation. Li RK: Heart and Stroke Foundation of Ontario. ($327,408 2003 - 2007.)

**Honours Received**


David TE: Honorary Member, Society of Cardiac Surgeons. March 2007.


Li R-K: Chinese American Medical Society Scientific Award. October 2006.

DIVISION OF GENERAL SURGERY

Dr. M.S. Cattral – Professor
Dr. J. Escallon – Associate Professor
Dr. S. Gallinger – Professor
Dr. R.M. Gorczynski – Professor
Dr. D. Grant – Professor
Dr. P.D. Greig – Professor
Dr. E. Kennedy – Assistant Professor
Dr. W.L. Leong – Assistant Professor
Dr. D.R. McCready – Professor
Dr. L.D. McGilvray – Assistant Professor
Dr. C. Moulton – Assistant Professor
Dr. T. Penner – Assistant Professor
Dr. M. Reedijk – Assistant Professor
Dr. R.K. Reznick – Professor
Dr. L.E. Rotstein – Professor (Division Head)
Dr. B.R. Taylor – Professor
Dr. D.R. Urbach – Associate Professor
Dr. A.C. Wei – Assistant Professor

Publications


Invited Visits to Other Hospitals/Universities

**Escallon J:** ABC Hospital and Universidad Nacional Autonoma de Mexico, Mexico City, Mexico, May 2007. Acute necrotizing pancreatitis.

**Gallinger S:** Co-Chair, 2nd Ontario Gastrointestinal Multidisciplinary Oncology Conference, Toronto, ON, November 2006. Colorectal cancer - genetics.

**Gallinger S:** Credit Valley Hospital Cancer Genetic Retreat, Mississauga, ON, May 2007. Ontario Familial Colorectal Cancer Registry (OFCCR) Update.


**Gallinger S:** Guest Lecturer, Williamsville New York (WNY) Quarterly Colon Rectal Cancer Meeting, Williamsville, NY, July 2006. Practical colon cancer genetics.


**Greig PD:** American Hepato-Pancreato-Biliary Association, Las Vegas, NE, April 2007. Hepato-Pancreato-Biliary (HPB) training symposium on a competency based HPB program.

**Greig PD:** 5th International Hepatocellular Carcinoma (HCC): Eastern and Western Experience, Houston, TX, January 2007. Pretreatment before liver transplant - No treatment.

**McCready DR:** Expert Advice, Online Forum, Toronto Star, Toronto, ON, September 2006.

**McCready DR:** Chair, Breast Session IV, Society of Surgical Oncology, Washington, DC, March 2007.

**McCready DR:** Panel Member, Consensus and Controversies, Canadian Society for Surgical Oncology (CSSO), Toronto, ON, April 2007. Melanoma.


**Moulton C:** Workshop, Association for Surgical Education, Washington, DC, April 2007. Slowing down when you should: A new model of intra-operative judgment and its implications for teaching.

**Moulton C:** Canadian Surgery Forum, Calgary, AB, September 2006. (1) Surgical skills training: What kind of practice makes perfect?, (2) Debate Session: The whipple procedure does not improve outcomes of patients with pancreatic adenocarcinoma.

**Reznick RK:** 92nd Annual Clinical Congress, American College of Surgeons, Chicago, IL, October 2006. (1) Acquisition and validation of new surgical skills, (2) Surgical simulators and continued learning in surgery.

**Reznick RK:** 9th Postgraduate Course in Surgical Oncology, Symposium Biel 2007, Biel, Switzerland, May 2007. From skills lab to bedside.

**Reznick RK:** St. Louis Surgical Society, St. Louis, MO, March 2007. Iconoclastic or crazy? Turning training upside down.

**Reznick RK:** McGill University Simulation Centre, Montreal, PQ, September 2006. Impact of simulation on new models of training.

**Reznick RK:** Thematic Day on Patient Safety and Skills Training, Aarhus, Denmark, October 2006. May I be so bold? A prescription for a new model of training.


**Reznick RK:** Annual Meeting, Flying Physician Association, Toronto, ON, July 2006. Medicine in Canada.
Reznick RK: Keynote Speaker, Danish Head and Neck Society, Kolding, Denmark, October 2006. Perfect practice makes perfect.


Reznick RK: McPheredran Lecture, University of Calgary, Calgary, AB, June 2007. Surgery and society are changing: So too should surgical training!


Reznick RK: Delaware Chapter of the American College of Surgeons, Newark, DE, December 2006. Surgical training in 3 years or less - crazy or creative?

Reznick RK: Visiting Professorship, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI, January 2007. (1) The anatomy of a surgeon, (2) Workshop on simulation.

Reznick RK: Grand Rounds, Georgetown University Hospital, Washington, DC, March 2007. The future of surgical training: Minor modifications or radical restructuring?


Reznick RK: Plenary Symposium Speaker, Canadian Anaesthesiologists Society, Calgary, AB, June 2007. What surgeons can learn from anaesthesiologists.....I can't believe I suggested this title!

Urbach DR: 92nd Annual Clinical Congress, American College of Surgeons (ACS), Chicago, IL, October 2006. Interpreting the data: What are the limitations? The volume and quality conundrum: What are the data?

Urbach DR: Surgical Outcomes Course, American College of Surgeons (ACS), Chicago, IL, November 2006. Uses and misuses of administrative data.


Research and Investigations

Senior Investigator’s Name Appears in Italics


A phase II double blind randomized placebo contoyed multicenter study assessing the value of adding rad 0012 lethrazol as preoperative therapy. Leight N, McCready DR, Leong W, Reedijk M: Novartis. ($40,000 2005 - 2007.)


Altered urine function with aging. Gorczynski RM, Terzioglu E: Turkish Science Foundation. ($300,000 2006 - 2008.)


Cancer surgery in Ontario: Quality and access. Urbach DR, Baxter N, Simunovic M, Eli L, Quan ML, Gagliardi A, Law C, Dobrow M: Canadian Institutes of Health Research. ($8,000 2006.)


CIHR team in interdisciplinary research on colorectal cancer. McLaughlin J, Gallinger S, and 25 others: Canadian Institutes of Health Research. ($3,627,210 2006 - 2011.)


Development of a surgical oncology atlas. Urbach DR: Cancer Care Ontario. ($189,276 2006 - 2007.)


Ductoscopy of breast diseases. Leong WL, Easson AM, McCready DR: Princess Margaret Hospital Women’s Committee. ($25,000 2004 - 2007.)


Effectiveness of colonoscopy for the prevention of colorectal cancer and mortality from colorectal cancer: A population-based case control study. Baxter N, Urbach DR, Rabeneck L, Austin P: Canadian Institutes of Health Research. ($85,185 2006 - 2007.)

Evaluating the quality of sentinel lymph node biopsy practice in Ontario. Quan ML, Wright FC, McCready DR, Gagliardi A, Urbach D: Canadian Breast Cancer Foundation. ($329,745 2006 - 2008.)

Evaluative research in surgical procedures and new health technologies: Ensuring quality, access and sustainability for surgical care in Ontario. Urbach DR: Ontario Ministry of Health and Long-Term Care, Health Research Personnel Development Program. ($250,000 2002 - 2007.)


Investigation of dendritic cell ontogeny from highly purified precursors. Cattral MS: Canadian Institutes of Health Research. ($273,870 2004 - 2007.)

LPS and hemoglobin induce immunological changes associated with aging. Gorczynski R: CLP Research. ($300,000 2004 - 2007.)


Ontario clinical oncology group.  Gallinger S, Moulton CA:  *PET CAM.*  ($180,000 2005 - 2010.)


Pancreatic cancer linkage consortium.  Petersen GM, Gallinger S, and 27 others:  *National Institutes of Health.*  ($7,000,000 2002 - 2007.)

PET predict.  McCready DR:  *Ontario Clinical Oncology Advisory.*  ($21,000 2004 - 2006.)

Randomized clinical trials for breast cancer.  McCready DR:  *National Adjuvant Breast and Bowel Project NSABP.*  ($50,000 2006.)

Randomized clinical trials for breast cancer.  McCready DR:  *National Adjuvant Breast and Bowel Project NSABP.*  ($75,000 2007.)

Role of fg12 in transplantation and cardiac development.  Grant D, Levy G:  *Heart and Stoke Foundation of Canada.*  ($227,750 2005 - 2008.)

Self-assessment of technical surgical practice.  Moulton C, Dubrowski A, MacRae H, Reznick R:  *Dean’s Excellence Fund for Medical Education.*  ($24,881.)

Shaping the future of health innovation research in Canada: A workshop bringing together researchers, designers and users of innovations.  Lehoux P, Urbach DR, Miller F, Battista R:  *Canadian Institutes of Health Research.*  ($10,000 2006.)

Slowing down when you should: A new model of expert surgical judgment.  Moulton C, Regehr G, MacRae H:  *Physicians’ Services Incorporated Foundation.*  ($41,000.)

Social, prognostic, and therapeutic factors associated with breast cancer survival in Canada and the US: Health care access and effectiveness in diverse urban and rural areas, 1985-2010.  Gorey KM, McCready DR, Holowaty E:  *Canadian Institutes of Health Research.*  ($374,000 2004 - 2009.)


The ARCTIC (Assessment of Risk for Colorectal Tumors in Canada) Genome Project.  Zanke B, Hudson T, Gallinger S, Cotterchio M, Lemmens T:  *Genome Canada.*  ($9,600,000 2004 - 2007.)


The effects of bench-model practice of technical surgical task on attentional demands and cognitive learning ability.  Moulton C, Dubrowski A, MacRae H:  *Medical Education Research Grant, The Royal College of Physicians and Surgeons of Canada.*  ($43,000.)


The molecular genetics of hepatitis C viral infection: Defining novel therapeutic and pathogenic mechanisms in acute and chronic disease.  McGilvray ID, Heathcote J:  *Canadian Institutes of Health Research.*  ($462,447 2005 - 2008.)


Honours Received

Gorcynski RM: Workshop Chairman and Organizer, Transplantation Research, Annual Meeting, Canadian Society for Immunology, Halifax, NS. September 2006.

Kennedy ED: Junior Investigator Award, Ontario Cancer Institute. 2006.

DIVISION OF NEUROSURGERY

Dr. M. Bernstein – Professor
Dr. K.D. Davis – Professor
Dr. J.H. Eubanks – Associate Professor
Dr. M.G. Fehlings – Professor
Dr. F. Gentili – Professor
Dr. A. Guha – Professor
Dr. M. Hodaie – Assistant Professor
Dr. W.D. Hutchison – Associate Professor
Dr. K. Johnston – Assistant Professor
Dr. A.M. Lozano – Professor
Dr. E.M. Massicotte – Assistant Professor
Dr. J.A. Saint-Cyr – Professor
Dr. C.H. Tator – Professor
Dr. M. Tymianski – Associate Professor
Dr. T. Valiante – Assistant Professor
Dr. A.A. Velumian – Assistant Professor
Dr. M.C. Wallace – Professor (Division Head)

Publications


**Invited Visits to Other Hospitals/Universities**

Bernstein M: Visiting Lecturer, Chulalongkorn University, Bangkok, Thailand, September 2006. (1) Image and function-guided brain tumour surgery, (2) Neurosurgical training in Canada, (3) Outpatient lumbar discectomy.


Bernstein M: Visiting Lecturer and Teacher, Xinxian Medical College, First Affiliated Hospital, Weihui, Henan Province, China; and Xiamen University, Zhongshan Hospital, Xiamen, Fujian Province, China, Henan Province and Fujian Province, China, March 2007. Image and function-guided brain tumour surgery.


Davis KD: Johns Hopkins Hospital, Blaustein Pain Rounds, Baltimore, MD, October 2006. Imaging pain perception.


Eubanks JH: Invited Lecturer, 1st Annual Ontario Rett Syndrome Association Conference, Scarborough, ON, November 2006. Progress towards understanding Rett Syndrome from the use of mutant mice.
Fehlings MG: Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT), Toronto, ON, June 2007. An update on new developments in the management of acute spinal cord injury.


Fehlings MG: Co-Chairman, Degenerative Spine Symposium - Principles and Emerging Technologies, Association for Osteosynthesis/Association for the Study of Internal Fixation (AO/ASIF), Montreal, PQ, July 2006.


Fehlings MG: Royal Canadian Institute Lecture Series, Toronto, ON, February 2007. Regeneration of the injured spinal cord: Pipedream or reality?

Fehlings MG: Gross Visiting Lecturer in Neuroscience, University of Manitoba, Winnipeg, MB, November 2006. Repair and regeneration of the injured spinal cord - Opportunities for clinical translation of basic research discoveries.

Fehlings MG: Visiting Professor, University of Montreal, Montreal, QC, January 2007. Repair and regeneration of the injured spinal cord: From molecule to man.

Fehlings MG: Visiting Professor, Miller School of Medicine, University of Miami, Miami, FL, February 2007. Repair and regeneration of the injured spinal cord: Opportunities for the clinical translation of basic discoveries.


Gentili F: Orbital Meningiomas; Member of the Organizing Committee and Panel Moderator, The Fifth International Congress on Meningiomas and the Cerebral Venous System, Fujiyoshida, Japan, November 2006. Speeches: (1) The surgical management of anterior skull base meningiomas, (2) The management of optic nerve sheath meningiomas.

Guha A: American Association for Cancer Research (AACR), Los Angeles, CA, April 2007. (1) Differential role of Neuropilin1 in regulating angiogenesis vs. invasion in the center vs. periphery of human glioblastoma multiforme (GBM), (2) Dimerization of wild-type and mutant epidermal growth factor receptors prevalent in glioblastoma multiforme, using Bioluminescence Resonance Energy Transfer (BRET), (3) The role of GATA4 and GATA6 as putative tumor suppressors and co-modulators in astrocytes, (4) Discovery of cancer biomarkers by mass-tagging with iTRAQ and multidimensional LC-MS/MS and verification by immunochemistry, (5) The role of GATA4 and GATA6 as putative tumor suppressors and co-modulators in astrocyt.

Guha A: Childhood Tumor Foundation (CTF), Park City, UT, June 2007. (1) Identification of genetic alterations in schwann cells isolated from varying subtypes of NF1 associated peripheral nerve tumors, (2) The SMARCB1 (INI1) tumor suppressor in familial schwannomatosis, (3) Principles of surgical management of dermal, plexiform & MPNST neurofibromas.


Guha A: Research Seminar, Montreal Children’s Hospital, Montreal, PQ, June 2007. Glioma models as a gene discovery tool.


Guha A: Visiting Professor, Division of Neurosurgery, University Hospital, Geneva, Switzerland, March 2007. Management of peripheral nerve tumors.


Guha A: Lunch Seminar, Siteman Cancer Center, Washington University, St. Louis, WA, March 2007. Transgenic glioma models as gene discovery tool.
Guha A: Society of Neurooncology, Orlando, FL, November 2006. What is the best pre-clinical animal model of brain tumors?

Guha A: South Asian Neurological Congress (SANC) 2007, All India Institute for Medical Sciences (AIIMS), New Delhi, India, February 2007. What mouse models have taught us about gliomas.

Hodaie M: Gamma Knife Radiosurgery Update Course, All India Institute of Medical Sciences, New Delhi, India, April 2007. Gamma knife radiosurgery for movement disorder.


Johnston K: The Concussion Road Show, Dr. Tom Pashby Sports Safety Fund/ThinkFirst Canada, Toronto, ON, November 2006.

Johnston K: The Concussion Road Show, Safe Communities Whitehorse/ThinkFirst Foundation of Canada, Whitehorse, YT, October 2006.


Johnston K: The Concussion Road Show, ThinkFirst Saskatoon, Saskatoon, SK, May 2007.


Lozano AM: Invited Speaker, Congress of Canadian Neurological Sciences Federation (CCNS), Edmonton, AB, June 2007. (1) Surgery of hyperkinetic movement disorders, (2) Contemporary neurosurgical approaches to the treatment of psychiatric disorders.


Lozano AM: Invited International Speaker, European Society for Stereotactic and Functional Neurosurgery., Montreux, Switzerland, October 2006. (1) What have we learned from single cell recordings in the operating room, (2) Clinical trials in functional neurosurgery.


Lozano AM: Invited Speaker, 2006 Brazilian Congress of Neurosurgery, Florianopolis, Brazil, September 2006. DBS for movement disorders; Surgery for dystonia.


Lozano AM: Michael J. Fox Foundation, Houston, TX, February 2007. DBS-current state of the field and new horizons.


Lozano AM: Invited Speaker, 10th International Congress, Kyoto Movement Disorder Society, Japan, October 2006. Motor cortex stimulation in the PPN.
Lozano AM: Invited Speaker, Human Neuroanatomy Course, St. Louis University, St. Louis, MO, September 2006. Neurosurgical circuits in psychiatric disorders.


Lozano AM: Invited Speaker, 58th Annual Meeting of the Scandinavian Neurosurgical Society, Copenhagen, Denmark, August 2006. The future of DBS surgery.


Massicotte EM: Visiting Professor (teaching and operating), First Hospital of Xinxiang Medical College, Xinxiang, Henan, China, March 2007.

Massicotte EM: Canadian Neurological Sciences Federation, Edmonton, AB, June 2007. (1) Chaired the Spine Section of Platform Session, (2) Spine course - The triage and management of cervical spondylotic myelopathy patient.

Massicotte EM: Congress of Neurological Surgeons, Chicago, IL, October 2006. Adult and pediatric spinal trauma surgery.


Tator CH: ThinkFirst Trauma Prevention Training, Ontario Road Safety Symposium, Toronto, ON, September 2006.


Tator CH: ThinkFirst Concussion Road Show, Toronto, ON, November 2006. Concussion management in sport: Diagnosis, treatment and return to play.


Tator CH: Guest Lecturer, British Cervical Spine Society, Glasgow, Scotland, November 2006. (1) Return to play guidelines for athletes with spinal injuries or other spine conditions, (2) Review of experimental and clinical strategies to enhance recovery and regeneration of the injured spinal cord, (3) Sport and cervical spine injury


Tator CH: Keynote Presentation, 2nd National Spinal Cord Injury Conference, Toronto Rehabilitation Institute, Toronto, ON, October 2006. What regenerative strategies exist and are in development that will be applicable for chronic spinal cord injury patients.


Research and Investigations
Senior Investigator’s Name Appears in Italics


Attenuated NMDA receptor development in MeCP2-deficient mice: Relevance to Rett Syndrome. Eubanks JH, Zhang L, Brotchie J: Canadian Institutes of Health Research. ($610,225 2006 - 2011.)

Balancing the risk of thromboembolism with hemorrhage in trauma and non-trauma patients with Central Nervous System hemorrhage and a strong indication for anticoagulation. Hawryluk G, Fehlings MG: Association for Osteosynthesis (AO) North America. ($58,600 2005 - 2006.)


Canada Research Chair in Neuroscience Tier 1. Lozano AM: Canada Institutes of Health Research. ($1,400,000 2005 - 2012.)

Childhood Tumor Foundation: Validation of rapamycin as an effective therapy for human NF1-associated MPNST. Guha A: Management of Malignant Peripheral Nerve Sheath Tumor. ($26,443 2007.)

Cleveland Clinic Foundation: Finding cures for glioblastomas: Characterization of a mouse transgenic astrocytoma model as a therapeutic testing platform. Guha A: Cleveland Clinic Foundation. ($95,000 2002 - 2007.)

Development and characterization of transgenic mouse models of astrocytomas. Guha A: National Cancer Institute of Canada (NCIC). ($125,500 2002 - 2007.)


Enhancing axonal regeneration following spinal cord injury by localized delivery of neuroregenerative factors. Shoichet M, Tator CH: Canadian Institutes of Health Research. ($432,000 2004 - 2008.)


Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulators, using a pilocarpine seizure model. Hodaie M, Lozano A: Dean’s Fund New Staff Grant. ($9,800 2005 - 2010.)
Examination of the therapeutic potential of an engineered transcription factor promoting activation of vascular endothelial growth factor in spinal cord injury. *Fehlings MG: Sangamo BioSciences, Inc.* (178,000 2006 - 2007.)


Functional magnetic resonance imaging and cognitive functions following mild traumatic brain injury. *Ptito A, Johnston K: Canadian Institutes of Health Research.* (559,000 2006 - 2011.)


Human studies of pain perception. *Davis KD, Tenenbaum HC, Diamant NE: Canadian Institutes of Health Research.* (656,502 2007 - 2012.)

Human studies of pain perception. *Davis KD, Diamant NE: Canadian Institutes of Health Research.* (539,925 2002 - 2007.)

In-vivo suppression of TRMP7 expression using siRNA. *Tymianski M: Krembil Seed Fund.* (100,000 2006 - 2007.)


Investigation and treatment of traumatic axonal dysfunction after spinal cord injury (MOP-82782). *Fehlings MG: Canadian Institutes of Health Research.* (572,015 2007 - 2012.)


Microenvironment induced molecular heterogeneity in glioblastoma multiforme (GBM). *Guha A: Canadian Institutes of Health Research.* (125,000 2007 - 2012.)

Molecular mechanisms of neuronal injury. *Tymianski M, Twelve Investigators Across Canada: Canadian Stroke Networks.* (91,000 2006 - 2008.)


Neuroprotection: Preventing cell death and neuronal damage from stroke. *Tymianski M: Canadian Stroke Networks.* (71,430 2006 - 2008.)

New emerging team in spinal cord injury research. *Fehlings MG: Krembil Foundation.* (1,500,000 2006 - 2011.)

North American Clinical Trials Network for the treatment of spinal cord injury (CTN2-2006 F/T). *Fehlings MG, Tator CH: Christopher Reeve Foundation.* (164,760 2006.)

North American Clinical Trials Network for the treatment of spinal cord injury (CTN3-2007 F/T). *Fehlings MG, Tator CH: Christopher Reeve Foundation.* (160,000 2007.)


Pathological oscillations in basal ganglia and synaptic plasticity. *Hutchison W, Lozano AM, Hodaie M, Dostrovsky J: Parkinson Society Canada.* (42,000 2006 - 2008.)


Preclinical evaluation of polyethylene glycol (PEG) as a neuroprotective strategy for acute spinal cord injury. *Fehlings MG: Ontario Neurotrauma Foundation.* (60,000 2005 - 2007.)

Protein nitration in traumatic and ischemic brain damage. Tymiaski M: Canadian Institutes of Health Research. ($668,710 2006 - 2011.)

Protein nitration in traumatic brain injury. Tymiaski M, Lau A: Canadian Institutes of Health Research/Institute of Neurosciences, Mental Health and Addiction. ($61,500 2006 - 2008.)


Regional variation in inhibitors of apoptosis (IAPs) in GBMs and their role in apoptosis and therapeutic resistance. Guha A: National Brain Tumor Foundation. ($52,886 2007 - 2008.)


Role of TRP channels in anoxic neuronal damage. Tymiaski M: Canadian Institutes of Health Research. ($363,759 2004 - 2007.)

Spinal cord injury research. Tator CH: Canadian Paraplegic Association. ($41,000 2006 - 2007.)


The role of TRP channels in the cellular mechanism of stroke and aging. Tymiaski M, MacDonald JF: Canadian Institutes of Health Research. ($750,000 2004 - 2009.)


Towards the correction of Rett phenotype by exogenous gene delivery. Eubanks JH, Burnham WM, Snead III OC: Canadian Institutes of Health Research. ($585,685 2004 - 2009.)

Transforming neuropathic pain research in Canada. Salter MW, Davis KD, De Koninck Y, Mogil J, Zhuo M, Kapur S: Neuroscience Canada- Brain Repair Program. ($1,500,000 2004 - 2007.)


Transplantation of neural stem cells and tissue engineering approaches to repair chronic, severe spinal cord injury. Fehlings MG, Hawryluk G: Craig H. Neilson Foundation. ($121,000 2007 - 2008.)

Treatment of stroke with peptide and small molecule inhibitors of NMDA receptor-PSD95 interaction. Tymiaski M: Canadian Stroke Networks. ($329,000 2006 - 2008.)
Honours Received

**Fehlings MG:** 2007 Lister Award in the Department of Surgery, University of Toronto. May 2007.


**Gentili F:** Invited Member, Organizing Committee, The Fifth International Congress on Meningiomas and The Cerebral Venous System, Fujiyoshida, Japan. November 2006.

**Gentili F:** Invited to Advisory Board, 8th Congress of the European Skull Base Society, Prague, Czech Republic. May 2007.

**Lozano AM:** Elected to German Academy of Neurosurgery - Deutsche Akademie f'uer Neurochirurgie 2006. September 2006.


**Massicotte EM:** Alan R. Hudson Neurosurgery Faculty Teaching Award. May 2007.
DIVISION OF ORTHOPAEDIC SURGERY

Dr. J.R. Davey – Associate Professor (Division Head)
Dr. M. Erwin – Assistant Professor
Dr. B.A. Graham – Assistant Professor
Dr. J. Lau – Assistant Professor
Dr. S.J. Lewis – Assistant Professor
Dr. N.N. Mahomed – Associate Professor
Dr. K.W. Marshall – Assistant Professor
Dr. D.J. Ogilvie-Harris – Associate Professor
Dr. Y.R. Rampersaud – Assistant Professor
Dr. H.P. von Schroeder – Associate Professor

Publications


**Invited Visits to Other Hospitals/Universities**


**Davey JR**: 2006 Comprehensive Team Approach for Reconstruction of the Hip and Knee, Orlando, FL, December 2006. (1) Posterior cruciate ligament: Save it or let it fly, (2) Total knee arthroplasty after high tibial osteotomy, (3) Role of hydroxyapatite in long-term fixation of total hip arthroplasty, (4) Indications and results with the Mallory/Head Calcar system.

**Davey JR**: Surgical Advances in Orthopaedics, Westin Trillium Blue Mountain Resort, Collingwood, ON, September 2006. (1) Posterior cruciate retaining vs. posterior cruciate sacrificing, (2) Use of spacers in infected total knee replacement, (3) Navigation--too much time.

**Davey JR**: Young President’s Organization, Toronto Western Hospital, Toronto, ON, February 2007. Arthritis and joint replacement.


**Davey JR**: 47th Annual Dewar Society Meeting, Toronto, ON, November 2006. Infected total joint arthroplasty.


**Lau JTC**: Ontario Orthopaedic Association, 29th Annual General Meeting, Toronto, ON, November 2006. Hallux rigidus - fusion or replacement?

**Lau JTC**: Saint Louis University, St. Louis, MI, April 2007. Latest techniques in foot and ankle surgery - Oblique bunionette 5th MT osteotomy - Hammertoe Correction.

**Lau JTC**: 29th Annual General Meeting, Ontario Orthopaedic Association, Toronto, ON, November 2006. Update on total ankle arthroplasty.

**Lewis SJ**: Guest Speaker, Complex Spine Update, Didactic and Cadaveric Sessions, Detroit, MI, March 2007.

**Lewis SJ**: European Pediatric Orthopaedic Meeting, Sorrento, Italy, April 2007. How to manage complex spinal deformities with vertebral resection.

**Lewis SJ**: 2nd National Spinal Cord Injury Conference, Toronto Rehabilitation Institute, Toronto, ON, October 2006. Spinal deformities: Post traumatic and others.

**Mahomed NN**: Canadian Orthopaedic Association, Halifax, NS, June 2007. Patient-reported outcomes as a quality indicator of standardized care plans for total joint replacement.


**Mahomed NN**: American Orthopaedic Association, Asheville, NC, June 2007. Patient-reported outcomes as a quality indicator of standardized care plans for total joint replacement.


**Mahomed NN**: Emerging Technologies in Hip and Knee Replacement Surgery, Niagara-on-the-Lake, ON, May 2007. (1) The role of arthroscopic debridement (Session I - Surgical Treatment of Severe Knee Arthritis), (2) Computer assisted TKR (Session III - Emerging Technologies in TKR.)


**Mahomed NN**: Summer Meeting, Hip Society, Iowa City, IA, September 2006. Patient reported outcomes as a quality indicator of standardized care plans for total joint replacement.


Rampersaud YR: Cleveland Spine Review, Cleveland Clinic, Cleveland, OH, July 2006. Minimally invasive surgery: Results, tricks and pearls.

Rampersaud YR: Cleveland Spine Review, Cleveland Clinic, Cleveland, OH, July 2006. Pedicle screws, ALIF / PLIF/ TLIF: Techniques, tricks and pearls.

Research and Investigations

Senior Investigator’s Name Appears in Italics

A randomized controlled clinical trial of 1st MTPJ arthrodesis compared to 1st MTPJ hemiarthroplasty in severe hallux rigidus. Lau J, Daniels T, Mahomed N: Physicians’ Services Incorporated Foundation. ($73,000 2004 - 2006.)

A randomized controlled trial of 1st MTPJ fusion compared to 1st MTPJ hemiarthroplasty in severe hallux rigidus. Lau J, Daniels T: American Orthopaedic Foot and Ankle Society. ($10,000 2005 - 2006.)

Alternative role of physiotherapists in improving access to total joint replacement. Badley E, Mahomed N, Davis A, Mackay C: Canadian Institutes of Health Research. ($98,250 2007 - 2008.)


Cell-based VEGF gene transfer to promote fracture healing. Schemitsch EH, Li R, Stewart DJ, von Schroeder HP: Physicians’ Services Incorporated Foundation. ($86,000 2005 - 2006.)


Honours Received

DIVISION OF PLASTIC SURGERY

Dr. D.J. Anastakis – Associate Professor
Dr. T. Bell – Lecturer
Dr. P. Bray – Assistant Professor
Dr. L.T. Dvali – Assistant Professor
Dr. B. Graham – Assistant Professor
Dr. S. Hofer – Associate Professor (Division Head)
Dr. J.E. Lipa – Assistant Professor
Dr. R.T. Manktelow – Professor
Dr. H.P. von Schroeder – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities

Anastakis DJ: Co-Chair, Scientific Program, Residents Corner, Annual Meeting, Canadian Society of Plastic Surgeons, Banff, AB, May 2006; June 1, 2007.


**Anastakis DJ**: Education Grand Rounds, Northwestern University, Feinberg School of Medicine, Department of Surgery, Chicago, IL, September 2006. Cortical plasticity - What you need to know when teaching surgeons technical skills.


**Bell T**: Invited Course Teacher, American Society of Aesthetic Plastic Surgery (ASAPS), New York, NY, April 2007. Anatomic approach to face and necklift.


**Bell T**: Invited Talk, Dr. F. Bruce Connell Society, New York, NY, April 2007. Things I’ve learned in my first 20 years of practice.


**Lipa JE**: Visiting Professor, University of Manitoba, Division of Plastic Surgery, Winnipeg, MB, July 2006. Sentinel lymph node biopsy in head and neck melanoma.

### Research and Investigations

*Senior Investigator’s Name Appears in Italics*


Lipofibromatosis of the brachial plexus. *Arruda EJ, Anastakis DJ: The Toronto Hospital Research Institute. ($4,000 2006.)*


The impact of upper limb musculoskeletal trauma on perceived disability and quality of life. *Ng WKY, Anastakis DJ: Canadian Institutes of Health Research. ($5,961 2006 - 2007.)*

### Honours Received


DIVISION OF THORACIC SURGERY

Dr. G.E. Darling – Associate Professor
Dr. M. de Perrot – Assistant Professor
Dr. S. Keshavjee – Professor (Division Head)
Dr. M. Liu – Professor
Dr. M.F. McKeownly – Professor
Dr. A.F. Pierre – Assistant Professor
Dr. T.K. Waddell – Associate Professor

Publications


**Invited Visits to Other Hospitals/Universities**


Darling GE: Introduction to Respirology Course, Department of Medicine, University of Toronto, Toronto, ON, July 2006. Lung cancer.

Darling GE: Lecture, Cardiorespiratory Physiotherapy, University Health Network, Toronto, ON, October 2006. Lung cancer: Epidemiology and surgical management.


de Perrot M: Canadian Pulmonary Hypertension Forum, Toronto, ON, June 2007. Surgical therapies for pulmonary arterial hypertension.


Keshavjee S: 2nd Protective Ventilation Summit, Frankfurt, Germany, November 2006. Artificial lung as a bridge to lung transplantation.


McKneally MF: Trillium Health Sciences Centre, Toronto, ON, December 2006. Research and innovation in surgery.

Research and Investigations

Senior Investigator’s Name Appears in Italics


High risk seed grant - Regenerative medicine: The role of marrow stromal cells in prevention of chronic lung allograft rejection. Waddell TK: Canadian Institutes of Health Research. ($150,000 2004 - 2006.)


Role of regulatory T cells in ischemia-reperfusion injury induced lung injury. de Perrot M: American Association for Thoracic Surgery Second Andrew G. Morrow Research Scholarship. ($150,000 2005 - 2007.)

Signal cross-talk in acute lung injury. Liu MY: Canadian Institutes of Health Research. ($655,000 2003 - 2008.)


Ventilator-induced acute lung injury: From mechanotransduction to molecular therapies. Liu MY, Chen P, Han B: Canadian Institutes of Health Research. ($785,000 2006 - 2007.)

Honours Received

DIVISION OF UROLOGY

Dr. A. Finelli – Assistant Professor
Dr. N.E. Fleshner – Associate Professor (Division Head)
Dr. M.M. Hassouna – Associate Professor
Dr. M.A.S. Jewett – Professor
Dr. A.G. Matthew – Assistant Professor
Dr. S.B. Radomski – Associate Professor
Dr. M. Robinette – Associate Professor
Dr. J. Trachtenberg – Professor

Publications


Invited Visits to Other Hospitals/Universities

Finelli A: GUROC (GenitoUrinary Radiation Oncologists of Canada) Prostate Cancer Radiotherapy Meeting, Toronto, ON, January 2007. HIFU for prostate cancer.

Finelli A: Issues and Controversies in Prostate Care, Cancun, Mexico, January 2007. (1) HIFU for prostate cancer, (2) Laparoscopic partial nephrectomy.

Finelli A: World Congress of Endourology, Cleveland, OH, August 2006. Laparoscopic extended pelvic lymphadenectomy for bladder cancer.

Finelli A: Alexander and King Visiting Professor, Baylor Urology Update, Dallas, TX, March 2007. (1) Laparoscopic partial nephrectomy: Comparison to open surgery, (2) Pushing the envelope: The cutting edge of laparoscopy.


Fleshner NE: American Society of Clinical Oncology, Orlando, FL, February 2007. Is active surveillance an opportunity for tertiary prevention?

Fleshner NE: Annual Meeting, Canadian Urological Association, Quebec City, PQ, June 2007. Management of high risk localized and locally advanced prostate cancer.

Fleshner NE: Canadian Urological Association, Quebec City, PQ, July 2006. Management of high risk localized and locally advanced prostate cancer.


Hassouna MM: Canadian Neuromodulation Society, Toronto, ON, May 2007. Pelvic neuromodulation in voiding dysfunction: What we have learned in 20 years.

Jewett MAS: Education Forum, Annual Meeting, Canadian Urological Association Quebec City, PQ, June 2007. Combined modality management of locally advanced and metastatic RCC.


Jewett MAS: Scott Department of Urology, Baylor College of Medicine, Houston, TX, September 2006. (1) Issues in the management of high risk superficial bladder cancer, (2) Management of early stage kidney cancer, (3) Management of testis cancer: Stage by stage.


Jewett MAS: Vancouver Island Urological Group, Victoria, BC, October 2006. Issues in the management of high risk superficial bladder cancer.


Jewett MAS: “Man to Man” Prostate Cancer Survivor Group, Toronto, ON, September 2006. Should we change the way we manage prostate cancer in aging men?


Matthew AG: Saskatoon Regional Cancer Centre, Saskatoon, SK, March 2007. Prostate cancer survivorship: Adapting to sexual dysfunction.


Robinette M: Canadian Transplant Fellows Symposium, Toronto, ON, November 2006. Laparoscopic vs. mini-incision donor nephrectomy.


Research and Investigations

Senior Investigator’s Name Appears in Italics


A multi-center, parallel group, flexible dose trial with a double-blind, randomized placebo-controlled phase followed by an open-label phase to assess the impact of viagra on the sexual satisfaction of men with mild erectile dysfunction. Radomski SB: Pfizer Canada. ($22,400 2005 - 2007.)


A randomized, prospective parallel group study to investigate the frequency of urinary tract infections comparing hydrophilic-coated catheters with uncoated catheters for intermittent catheterization. Hassouna M: Coloplast Incorporated. ($45,000 2006 - 2007.)


Comparison between 2 of M3Receptors antagonists on detrusor overactive bladder in spinal cord injured patients. Hassouna M: Ontario Neurotrauma Foundation. ($10,000 2007.)


Development of novel minimally invasive surgical techniques. Trachtenberg J: Princess Margaret Hospital Foundation. ($2,500,000 2003 - 2008.)


Effects of Botulinum-A toxin versus sacral neuromodulation on voiding dysfunction in rats following spinal cord injury: Role of C-afferent fibers in the mechanism of action in both treatment modalities. Hassouna M: Medtronic Incorporated. ($20,000 2006 - 2008.)


Facilitating informed treatment decision-making through a professional/Peer Led Decision-Aid Group Educational Program (PLEDGE): A feasibility study in a prostate cancer clinical setting. Matthew AG, Taube-Shiff M, Devins G, Rodin G: Princess Margaret Hospital Foundation. ($3,000 2007 - 2008.)


Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner N, Haider M, Venkateswaran V: Canadian Urologic Association/Canadian Urologic Oncology Group. ($25,000 2006 - 2008.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early state prostate cancer. Fleshner N, Haider M, Venkateswaran V: Prostate Cancer Research Foundation of Canada. ($60,000 2007 - 2008.)

In bore robotic assisted image guided focal ablation of prostate cancer. Trachtenberg J, Haider M, Goldenberg A, Kucharczyk W: Princess Margaret Hospital Foundation. ($160,000 2006 - 2007.)


Program project grant: Photodynamic therapy-basic science studies: Project 3-prostate preclinical. Hetzel FW, Chen Q, Wilson BC, Trachtenberg J: National Institutes of Health. ($1,000,000 2002 - 2009.)


Prospective randomized double-blind trial of intravesical injection of botulinum toxin A versus saline for neurogenic detrusor overactivity and urinary incontinence related to spinal cord injury or multiple sclerosis. Herschorn S, Radomski SB: Allergan Canada. ($39,000 2006 - 2007.)

Prostate Cancer Prevention Clinic. Trachtenberg J, Matthew AG, Horsburgh S: Princess Margaret Hospital Foundation. ($1,000,000 2005 - 2011.)


Randomized study to investigate the efficacy and safety of treatment with Dutasteride and Tamsulosin once daily for 4 years on the improvement of symptoms and outcome of benign prostatic hyperplasia. Hassouna MM, Radomski S: Glaxo-Smith-Kline Pharmaceutical. ($15,000 2004 - 2008.)

Randomized trial of the effects of cholecalciferol on prostate cancer associated lesions and on cholecalciferol metabolites in prostate tissue. Veith R, Van der Kwast T, Fleshner N, Klotz L: Canadian Institutes of Health Research. ($262,730 2006 - 2008.)

Reduction in progression among men on watchful waiting using dutasteride. Fleshner N, REDEEM STUDY GROUP: Glaxo Smith Kline. ($8,000,000 2006 - 2011.)

Retreatment of patients with vascular targeted phototherapy (Tookad) after recurrence of prostate cancer following definitive radiation therapy. Trachtenberg J, Elhilali M, Wilson B: Steba Biotech. ($180,000 2006 - 2007.)

Safety and effectiveness of denosumab in patients with hormone refractory non metastatic prostate cancer. Trachtenberg J: Amgen. ($50,000 2006 - 2007.)


The SELECT Trial. Trachtenberg J, Jewett M, Tshilias J: *National Cancer Institute (USA), Southwest Oncology Group*. ($250,000 2000 - 2009.)


**Honours Received**


Jewett MAS: A.W. Bruce Undergraduate Teaching Award for the Best Student Teacher, University of Toronto, Division of Urology, June 2007.

Trachtenberg J: Surgeons’ Lounge at The Toronto General Hospital named in honour of John Trachtenberg, MD. June 2007.

DIVISION OF VASCULAR SURGERY

Dr. K.W. Johnston – Professor
Dr. T.F. Lindsay – Associate Professor
Dr. G.D. Oreopoulos – Assistant Professor
Dr. B.B. Rubin – Associate Professor (Division Head)
Dr. D. Wooster – Associate Professor

Publications


Invited Visits to Other Hospitals/Universities


Lindsay TF: Division of Thoracic Surgery, Toronto, ON, November 2006. Alternate funding plan for thoracic surgeons.


Lindsay TF: Sanofi-Aventis, Oshawa, ON, January 2007. Diagnosis and management of peripheral arterial disease - What family MDs need to know.


Wooster D: Vascular Meeting, University of Rochester, Rochester, NY, May 2007. (1) Future directions in vascular ultrasound testing, (2) Screening protocols in vascular ultrasound, (3) The small AAA: Should it be fixed?

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*

Complement activation following ruptured abdominal aortic aneurysm: Combining human observation with animal experimentation to establish a framework for human therapy. *Lindsay TF: Physicians’ Services Incorporated Foundation.* ($161,000 2007 - 2008.)


Molecular regulation of myocardial cyclooxygenase-2-expression and prostaglandin biosynthesis in neonatal rat cardiac myocytes. *Rubin BB: Canadian Institutes of Health Research.* ($461,000 2002 - 2007.)


**Honours Received**

*Lindsay TF: Surgical Skills Centre Distinguished Educator Award. August 2006.*

*Wooster D: Young Investigator’s Award for Best Paper (co-author), Society for Vascular Ultrasound. 2007.*

*Wooster D: Physician Presenter Award for Best Paper whose main investigator and presenter is a physician. 2007.*
In the fall of 2006, Women’s College Hospital became an independent hospital. Concomitantly there were needs within the University and Toronto Central LHINs that pointed to opportunities for the surgical services at the New Women’s College Hospital. In response to these opportunities, the University of Toronto’s Department of Surgery proposed that the New Women’s College Hospital develop an academic ambulatory surgical centre that is fully integrated with the Hospital’s ambulatory programs and services and a designated facility for ambulatory surgery in the Toronto LHIN. This will become a fully academic affiliated site for inter-professional research and education in ambulatory surgery focused on minimally invasive and specialized ambulatory procedures in the subspecialty areas of Urology, Orthopedics, Plastic Surgery and General Surgery.

**New Staff**

Dr. Ethan Grober in Urology joined us in July 2007 in partnership with Mount Sinai Hospital. We are actively recruiting in other surgical specialty areas.

**Appointments and Activities**

Dr. Mitch Brown and Dr. John Semple co-chaired the 7th Toronto Breast Surgery Symposium held this past May. Dr. Brown was a guest speaker at the Atlanta Breast Surgery Symposium in Atlanta Georgia. Dr. Semple was the Royal College Speaker at the Department of Surgery, McMaster University in Hamilton, November 2006.

At WCH the Department of Surgery is in a developmental phase as we transition into our new role as an Academic Ambulatory Surgical Centre. We plan to position Women’s College Hospital as a research and education hub that will provide surgical residents and other health professionals with state of the art ambulatory training and become the provincial benchmark for ambulatory care. More importantly, the Centre will need to build partnerships and integrate with existing ambulatory care programs and services in other hospitals and health organizations to ensure seamless delivery of care across the continuum. There is a Capital Development plan for a new building on this site with construction starting in 2009. The future for the Department of Surgery at WCH is very bright.
Dr. M.H. Brown – Associate Professor
Dr. J.L. Semple – Professor

Publications


Invited Visits to Other Hospitals/Universities


Brown MH: Breast and Body Contouring Symposium, Plastic Surgery Educational Foundation (PSEF), San Francisco, CA, October 2006. Experience with highly cohesive silicone gel breast implants.

Semple JL: Guest Speaker, Annual General Meeting of the Association of Volunteers, Women’s College Hospital, Toronto, ON, May 2007.

Semple JL: Visiting Professor, Annual Residents’ Research Day, Royal College of Physicians and Surgeons Visiting Professor, McMaster University, Department of Surgery, Hamilton, ON, November 2006.


Research and Investigations
Senior Investigator’s Name Appears in Italics

Advanced Regenerative Tissue Engineering Centre (ARTEC). ARTEC program is based at Sunnybrook and Women’s College Health Sciences Centre (SWCHSC) in partnership with University of Toronto & APOTEC Research Inc., Rimon Therapeutics, Elastin Specialties and matRegen. Multiple projects and PI’s from Engineering, Basic Science and Surgery receive funding. Funds also support new laboratory space at the Sunnybrook site, new hires and network development. Semple JL, Woodhouse K, Sefton M, Shoichet M, Dumont D, Midha R, Fish J: Ontario Research Development Challenge Fund. ($12,568,500 2003 - 2008.)

DIVISION OF ANATOMY

Heads of Divisions
Dr. A. Agur - Professor
Dr. B. Ballyk - Lecturer
Dr. S. Karimi-Abdolrezaee - Assistant Professor
Dr. P. Koeberle - Assistant Professor
Dr. C.M. Morshead - Assistant Professor
Dr. J.A. Saint-Cyr - Professor
Dr. P.A. Stewart - Professor
Dr. I.M. Taylor - Professor
Dr. M.J. Wiley - Professor (Division Head)

Michael J. Wiley  Chair

Publications


**Invited Visits To Other Hospitals/Universities**


**Morshead C**: Lecture, University of Toronto Epilepsy Research Program (UTERP), Department of Physiology, University of Toronto, Toronto, ON, March 2007. Neural stem cells and regenerative medicine.


**Morshead C**: Department of Surgery, University of Toronto, May 2007. Neural stem cells: Their properties and potential.


**Morshead C**: Advances in Neurorehabilitation, Festival of International Conferences on Caregiving Disability (FICCDAT) Conference, June 2007, Toronto, ON. Cellular and molecular strategies.

**Research and Investigations**

*Senior Investigator’s Name Appears in Italics*

Activation of cognitive compensatory circuits in Parkinson’s Disease. *St. Cyr J: Parkinson’s Disease Foundation of Canada.* ($45,000 2005 – 2007.)

Animating subcellular concepts: Educational or entertaining? *Stewart P, Jenkinson J: Dean’s Excellence Fund, Faculty of Medicine, University of Toronto.* ($9,454 2005-2006.)


Approaches to self-repair: Characterizing the endogenous responses of neural stem cells following brain injury. *Morshead C: Premier’s Research Excellence Award.* ($100,000 2004 – 2009.)


Development of an in situ 3D computer model to investigate movement/stability characteristics of lumbar back muscles. *Agur A: Dean’s Fund, University of Toronto.* ($650,000 2004-2009.)


Examining the function and regulation of adult mammalian neural stem cells. *Morshead C: Canadian Institutes of Health Research.* ($99,399 2005 – 2006.)

Full thickness tears of the supraspinatus tendon: A clinical ultrasonographic study. *Agur A, Boynton E: Canadian Orthopaedic Foundation.* ($10,000 2006-2007.)

Functional partitioning of the lumbar multifidus: An analysis of muscle architecture, nerve and fiber type distribution using a novel 3D in situ approach. *Agur A: Association for Osteosynthesis/Association for the Study of Internal Fixation Foundation, Switzerland.* ($68,000 2004-2007.)
In vivo monitoring of neural recovery following stem cell therapies to treat stroke. Stanisz G, Morshead C, Lobough N, Canadian Institutes of Health Research. ($430,000 2007-2010.)


Mechanisms of neuronal degeneration after traumatic CNS injury or stroke: Koeberle P: Canadian Foundation for Innovation (Leadership Opportunity Fund)/Ontario Research Fund. ($249,000 2007 – 2008.)

Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application. Fehlings MG, Morshead C, vander Kooy D, Tator C: Canadian Institutes of Health Research. ($1,500,000 2004 – 2007.)

Regulating adult neural stem cells using in vivo and in vitro manipulation. Morshead C: Canadian Institutes of Health Research. ($330,000 2005 – 2008.)


The role of extracellular matrix in adult CNS neurodegeneration. Koeberle P: Connaught New Staff Grant. ($10,000 2007-2008.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koeberle P: Dean’s Fund, University of Toronto. ($10,000 - 2007-2010.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koeberle P: Connaught New Staff Matching Grant. ($30,000 – 2007 -2009.)

The role of RGMa in retinal cell degeneration. Koeberle P, Monnier P: Glaucoma Research Society of Canada Pilot Project Grant. ($10,000 2006-2007.)


**Honours and Awards**

**Agur A:** Exceptional Achievement Award (Academic). Department of Physical Therapy. October 2006.
Dr. H. Carnahan – Professor
Dr. A. Dubrowski – Assistant Professor
Dr. G. Regehr – Professor
Dr. N. Woods – Assistant Professor

Publications


Regehr G: Plenary Address, 2nd Annual Best Practices Institute, University of Minnesota Medical School, Minneapolis, MN, May 2007. (1) Self-assessment, self-direction and other myths: Implications for the self-regulating professional, (2) Seeing the world through a student’s eyes: Lessons from cognitive psychology.


Regehr G: Co-Presenter, Medical Education Rounds, Peninsula University Medical School, Plymouth, UK, June 2007. Measuring the social in health professional education: Epistemological and rhetorical issues.

Regehr G: Plenary Address, Annual General Meeting, National Board of Medical Examiners, Philadelphia, PA, March 2007. Representing competence without scales: Matching to standardized vignettes as a model of authentic clinical evaluation.

Regehr G: Invited Address/Co-Presenter, Annual Meeting, Accreditation Council for Graduate Medical Education, Orlando, FL, March 2007. Selecting residents: How to know if you are doing it right.


Invited Visits To Other Hospitals/Universities

Carnahan, H: Guest Speaker, Association of Medical Education in Europe, Genoa, Italy, September 2006. The impact of practice schedules on the learning of a complex surgical skill.

Carnahan, H: Guest Speaker, Society for Neuroscience, Atlanta, GA, October 2006. (1) Force scaling as a function of object mass during a precision grasp lift while fatigued, (2) The integration and dissociation of thermal and frictional cues during material identification.

Carnahan, H: Guest Speaker, Canadian Society of Psychomotor Learning and Sport Psychology (SCAPPS), Halifax, NS, November 2006. (1) Full body tilt affects execution of complex manual skills, (2) The effects of practice on adaptation to visual field rotations, (3) The effects of visual field rotation on the performance of a laparoscopic task by novice and expert laparoscopists, (4) Is vision the only afferent system that provides relevant pre-contact cues?


Research and Investigations

Senior Investigator’s Name Appears in Italics


Arthroscopy equipment. Safir O, Carnahan H, Dubrowski A: Liventek Canada. ($100,000 2006 - 2007.)


Model curriculum development for training rehabilitation specialists using simulation. *Carnahan H, McKee P: Faculty of Medicine Educational Development Fund.* ($20,000 2006 - 2007.)

Motion analysis system to quantify manual skills. *Carnahan H: National Sciences and Engineering Research Council of Canada.* ($76,000 2006 - 2007.)


The influence of weightlessness on sensorimotor adaptation. *Carnahan H, Schneider S, Struder H, Kleinert J: German Space Agency (DLR).* ($200,000 2005 - 2007.)


The role of tongue pressure generations kill in the oral phase of swallowing. *Carnahan H, Steels CA, Bressman T: Canadian Institutes of Health Research.* ($244,316 2007 - 2010.)


**Honours Received**

Regehr G: National Board of Medical Examiners Hubbard Award (for significant contributions to the pursuit of excellence in the field of evaluation in medicine.) March 2007.
CROSS APPOINTMENTS

Dr. A.J. Baker (Anaesthesia)                Dr. M. Milner (Rehabilitation Sciences)
Dr. B. Bapat (Laboratory Medicine and Pathobiology)  Dr. W. Montanera (Medical Imaging)
Dr. P. Birek (Dentistry)                  Dr. J. Mullen (Laboratory Medicine and Pathobiology)
Dr. A. Campbell (Medicine)                Dr. S. Narod (Public Health Sciences)
Dr. J. Carson (Family and Community Medicine)  Dr. C.D. Naylor (Medicine)
Dr. A. Daar (Public Health Sciences)      Dr. M. Ojha (Rehabilitation Sciences)
Dr. A. Damyanovich (Medical Imaging)      Dr. K.P.H. Pritzker (Laboratory Medicine and Pathobiology)
Dr. J.E. Davies (Dentistry)               Dr. P. Ritvo (Public Health Sciences)
Dr. W.A. Demajo (Anaesthesia)             Dr. A. Romaschin (Laboratory Medicine and Pathobiology)
Dr. E. Diamandis (Laboratory Medicine and Pathobiology)  Dr. J. Rutka (Otolaryngology)
Dr. F. Dicosmo (Botany)                   Dr. A. Slutsky (Medicine)
Dr. R.J. Eby (Medicine)                   Dr. B. Steinhart (Medicine)
Dr. V.L. Fornasier (Laboratory and Pathobiology)  Dr. D. Stewart (Psychiatry)
Dr. A. Fox (Medical Imaging)              Dr. K.G. terBrugge (Medical Imaging)
Dr. J. Freeman (Otolaryngology)           Dr. T. Van Der Kwast (Laboratory Medicine and Pathobiology)
Dr. R. Gilbert (Otolaryngology)           Dr. I. Weller (Public Health Sciences)
Dr. M. Greenberg (Pediatrics)             Dr. L. White (Medical Imaging)
Dr. M.D. Grynpass (Laboratory Medicine and Pathobiology)  Dr. R. Willinsky (Medical Imaging)
Dr. P.J. Gullane (Otolaryngology)         Dr. G.J. Wilson (Laboratory Medicine and Pathobiology)
Dr. B. Harvey (Public Health Sciences)    Dr. I. Witterick (Otolaryngology)
Dr. J. Irish (Otolaryngology)             Dr. J. Rutka (Otolaryngology)
Dr. J. Irvine (Psychiatry)                Dr. A. Slutsky (Medicine)
Dr. G. Jackowski (Laboratory Medicine and Pathobiology)  Dr. B. Steinhart (Medicine)
Dr. M.G. Johnston (Laboratory Medicine and Pathobiology)  Dr. D. Stewart (Psychiatry)
Dr. R. Kandel (Laboratory Medicine and Pathobiology)  Dr. K.G. terBrugge (Medical Imaging)
Dr. W. Kucharczyk (Medical Imaging)      Dr. T. Van Der Kwast (Laboratory Medicine and Pathobiology)
Dr. J. McGlade (Medical Biophysics)       Dr. I. Weller (Public Health Sciences)
Dr. M. Lee (Anatomy)                     Dr. L. White (Medical Imaging)
Dr. G.A. Levy (Medicine)                  Dr. R. Willinsky (Medical Imaging)
Dr. C. Lumsden (Medicine)                Dr. G.J. Wilson (Laboratory Medicine and Pathobiology)
Dr. A. McDonald (Medicine)               Dr. I. Witterick (Otolaryngology)
Dr. D.A.G. Mickle (Laboratory Medicine and Pathobiology)  Dr. J. Rutka (Otolaryngology)